

**Systema horti-culturae; or, the art of gardening ... / By J[ohn] W[orldidge] Gent.**

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Worldidge, John, active 1669-1698

**Publication/Creation**

London : T. Burrell & W. Hensman, 1677.

**Persistent URL**

<https://wellcomecollection.org/works/h89xgr5x>

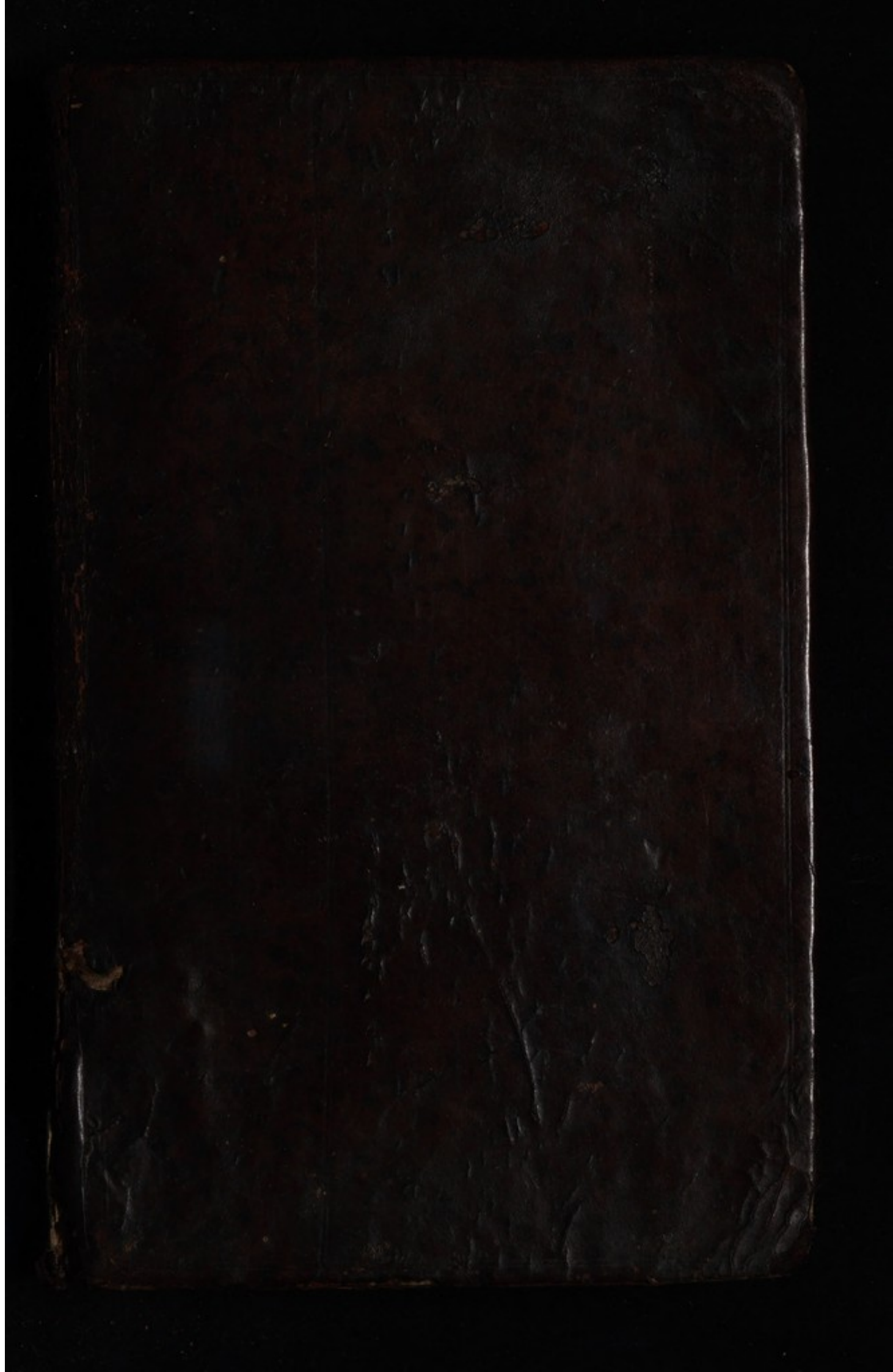
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ART  
OF  
GARDENING









Miss. Boswell  
Ed 1736

By John Worlidge

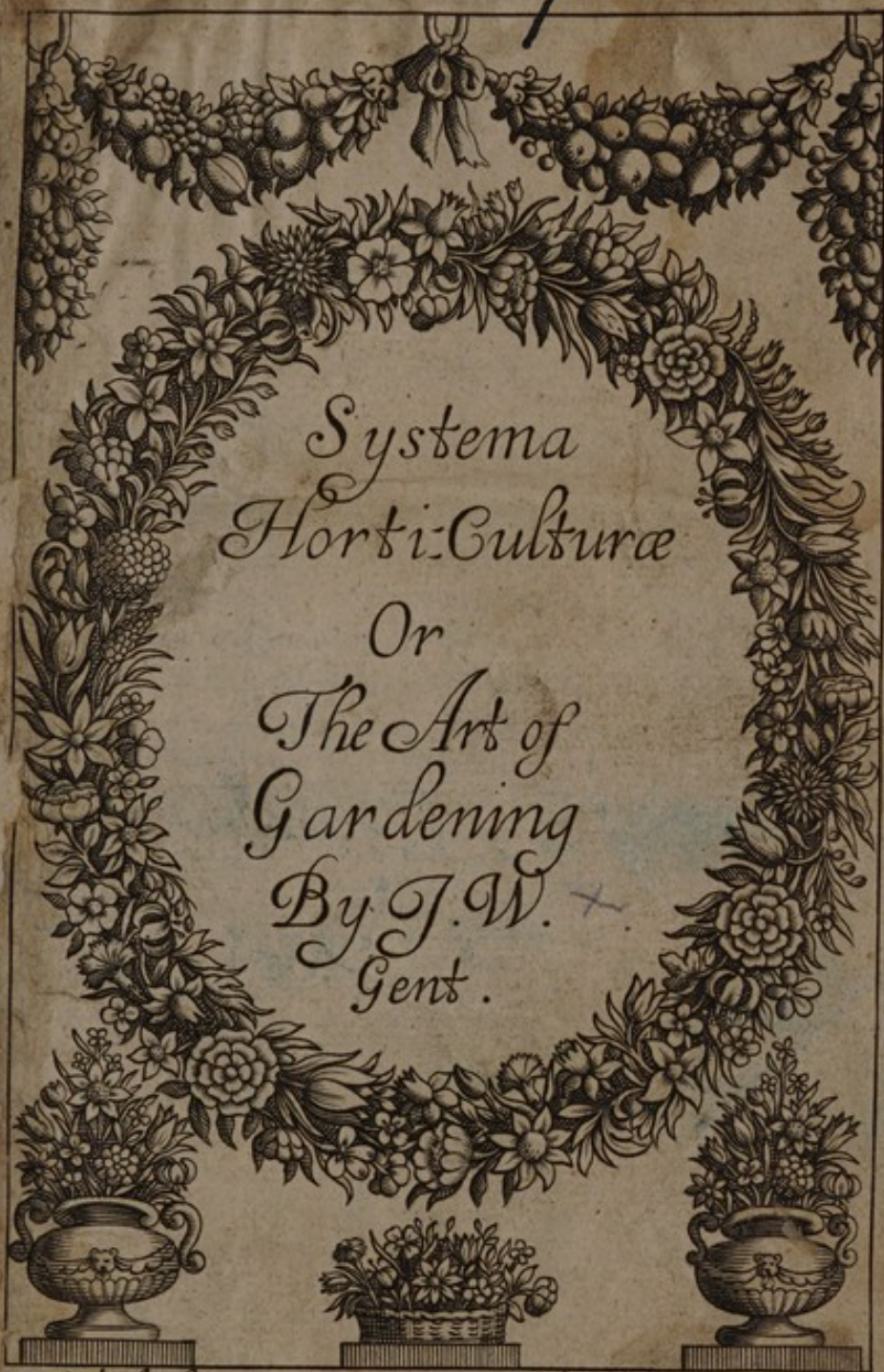
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28/- 9/11



Sir Henry Bulwer.



Systema  
Horti-Culturæ

Or

The Art of  
Gardening

By J.W. +  
Gent.

Printed for T. Burrell And W. Hensman  
1677 F. H. Van Houe fec:

70



Handwritten text, likely bleed-through from the reverse side of the page. The text is mirrored and includes the words "The History of the Plant Kingdom" and "Volume I".

Printed text from the adjacent page, partially visible on the right edge. It includes the words "The History of the Plant Kingdom" and "Volume I".



*Systema Horti-culturæ :*  
 OR, THE  
**A R T**  
 OF  
**G A R D E N I N G.**  
 IN  
**Three Books.**

The I. Treateth of the Excellency, Scituation, Soil, Form, Walks, Arbours, Springs, Fountains, Waterworks, Grotto's, Statues, and other Magnificent Ornaments of Gardens, with many necessary Rules, Precepts, and Directions, concerning the same.

The II. Treateth of all sorts of Trees planted for Ornament or Shade, Winter Greens, Flower Trees, and Flowers, that are usually propagated or preserv'd in the Gardens of the best Florists, and the best ways and methods of Raising, Planting, and Improving them.

The III. Treateth of the Kitchin Garden, and of the great variety of Plants propagated for food or for any culinary uses : Together with many general and particular Rules, Precepts, Observations, and Instructions, for the making hot beds, altering and enriching any sort of Garden ground, watering, cleansing, and adapting all sorts of Earth to the various plants that are usually planted therein. To the great improvement of every sort of Land, as well for use and profit as for Ornament and delight.

ILLUSTRATED with SCULPTURES, representing the form of GARDENS, according to the newest MODELS.

By *J. W. Gent.*

L O N D O N,

Printed for *Tho. Barvel*, at the Golden Ball under *St. Dunstan's Church* in *Fleetstreet*, and *Will. Hensman*, at the King's Head in *Westminster Hall.* 1 6 7 7.



ARTS AND MYSTERIES  
OF THE  
ART  
OF  
GARDENING

Licensed,

March, 4.  
1676

R. L'ESTRANGE.





THE  
PREFACE  
TO THE  
READER.

**A** *Rts* as well as *Habits*, are  
subject to that fate of be-  
ing in mode, as might be  
instanced in several, besides this cu-  
rious Art of *Horti-culture*: which  
never declines when once it is be-  
come National, only varies in Form  
according to the several temporary  
humours of such that place their ob-  
lectations in it. As for that part of  
Gardening, which is for the propa-  
gation of Trees for pleasure, and  
beautifying Seats with invegetate  
Ornaments, scarce any part of the  
A 2 world,



## The Preface

world, but estimates it at a more than ordinary value. As for that part which is for *Flora's* use, the extreme hot or cold parts are little addicted to it, those in the temperate Zone the most: For these lustrous beauties affect not *Sol's* scorching rays, nor can their tender lovely faces endure *Hyems's* too great severity, yet of the two extremes, the cold is the most tolerable, there being naturally more Flowers in the Meadows of the *Russian Territories*, than in those of *Guinea*. But as for that part that relates to *Esculent Plants*, all Nations delight in it for the raising of such that are most proper for their Climate, Nature it self hath directed us where and in what parts *Gardens* are to be planted with advantage, having spontaneously exposed to our view many curious  
Plants,



*To the Reader.*

Plants, which made *Varro* to say, *Divina natura dedit agros*; which is in effect, that Divine Nature hath indicated unto us those grounds that are fit for these uses: There rests only our care and industry to till and manure them, which was an exercise appropriated unto us from the beginning. That our English soyl then is generally fit for all these uses, may appear from its aptness to produce naturally to great variety of Trees for beauty and shade, Flowers for delight, and edible Plants also if they are sown in it, which is a sufficient encouragement for the *Ingenious* farther to prosecute this Art, which is of late years much improved in every part thereof. It was not long since that our choicest avenues were first planted with those Ornamental shades that now are become common, and that



## The Preface

our best Gardens were only worthy of those natural beauties that now flourish in every ordinary *Partir*, many of our now vulgar dishes of *Tillage* also were but lately esteem'd as rarities, and as this *Art* hath with its subjects encreased of late years, so have the instructions or treatises written to that effect been multiplied: The affections of our Countrymen so naturally tending that way, have given great encouragement to such publications, some whereof are very large and voluminous, others there are that are more accurt, and treat only of some particular Plants and ways of ordering them: and as the *Art* it self was at first lame, so have the directions for its improvement been. That if an inquisitive person desires to be informed of the different ways, methods, or means to order his Garden, &c. He must procure



## To the Reader.

procure many several tracts, and those differing very much in their rules and prescriptions the one from the other, and delivering many fabulous stories, and directing you in erroneous ways, affirming them to be true that are merely supposititious, some of them are only translated out of other languages, which were written for other Countries, whose *Horticulture* (as their Climate) varies very much from ours, All which inconveniences I have here endeavoured to avoid, by contracting into a small pocket volume, the names of the most and principal kinds of Ornamental *Trees* and *Flowers*, with their proper ways and methods of ordering, and an account of all such *Esculent* Plants that are here usually propagated for culinary uses: Together with the method and manner of selecting



## The Preface

grounds for Gardens, and the making, forming, and adorning them, and the improving, preserving, altering or renewing the several sorts of Earths for all hortulane Plants, wherein as near as may be I have not troubled you with unnecessary, insignificant, useless, nor false directions, but have inserted only such that either I have actually experimented to be true, or have them from persons or Authors of good repute, or that are deduced from solid principles. Also I have not swel'd this small Tract nor troubled your patience, with the many unnecessary names nor characters of the various species of Flowers, and several other Plants, but nominated the more principal, the other being rather to be selected when in their prime by your Eye, than confided in from lame descriptions. It is better



*To the Reader.*

ter to trust to the integrity of a Gardener than such directions, that are usually written and seem to emblazon the fame of a poor simple Flower, which when you see its highest lustre in the best part of your Garden, (as by the description and the price you gave for it, it should deserve) you are ready to remove it to the most abject place of your Groves. It may be objected that there are many things in this Treatise that have been formerly written of, and therefore it seems to be superfluous. It is true, very able Pens have written of this subject, but they themselves could not write without mentioning some things and those not few, that had been published before: It being very rare to find a Treatise in this age, wholly of a new subject, and any one would esteem it a grand deficiency in the improvement of  
this



## The Preface

this Art, if none should have written of it since Mr. *Parkinson*, Sir *Hugh Plat*, *Meager*, and several others, because these had written before on the same subject, I hope therefore that this objection will have no place against this tract, the rather because it hath the characters (that Mr. *Austin* hath proposed in his Epistle dedicatory, before his *Treatise of Fruit Trees*) that books of this nature should have, *viz.* 1. *That they be of small bulk and price*, wherein I hope I have conformed, considering the variety of matter herein discoursed of. 2. *That the stile be plain and suited to the Vulgar*: In this I am sure I have not transgressed, for I have wav'd as near as I could, all hard words and intricate expressions (now in mode) not in any wise suitable to this plain, honest and rustick employment. 3. *That these*  
*Books*



*To the Reader.*

*Books for instruction, be experimental:* As to this proposal I have exactly observed it, you will also find several matters here treated of, that have not as yet been mentioned in any Hortulane Tracts, and many experiments very useful and beneficial that were never made publick before. My principal design being not only to excite or animate such that have fair estates and pleasant Seats in the Country to adorn and beautifie them: But to encourage the honest and plain Countryman in the improvement of his Ville, by enlarging the bounds and limits of his Gardens as well as his Orchards, for the encrease of such Esculent Plants that may be useful and beneficial to himself and his Neighbours. Many there are in this Kingdom, that out of small portions of Land, have by their industry and ingenuity in this  
very



## The Preface

very way of improvement, maintained themselves and their Families, and acquired over and above wherewith to enlarge their possessions. Several parts beyond the Seas, in *Holland, Flanders, France, Switzerland*, (of a near temperature of Air with us) can shew multitudes of Examples of this Nature, *Italy* also in *Pliny's* time, now the Garden of the world, was then improveable by this way of Tillage: As appears by that history of *C. Furius Cresinus*, who out of a small piece of ground raised more advantage than his Neighbours out of their greater possessions, but then not without the imputation of forcery, such was the ignorance and envy of that Age.

In this Country in many places ignorance, sloth, and envy, are great impediments to this way of improvement: No Country in the World  
being



*To the Reader.*

being without some persons fraught with lazy & envious humors. Therefore we cannot be exempt from them, the best of Airs naturally nourishing the worst of Animals and the best of Gardens naturally producing the worst of Weeds.

As for slothful men, they are the greatest burthen to themselves, but envious men, although they are so great an affliction to themselves, (as *Horace* observed, that the *Sicilian* Tyrants never invented the like torment,) yet are they also the worst neighbours to good husbandry, not only to the constant depraving the endeavours and ingenuity of the industrious, but using all means they can to impede or prevent their prosperity: Like unto him that poysoned the Flowers in his own Garden, because his Neighbours Bees should get no more honey from them. A-  
gainst



## The Preface

gainst such as these every ingenious and industrious man ought to be well provided with a competent proportion of patience and discretion, and not to be discouraged from prosecuting his intentions of improving his Ville, either by this way here proposed, or by some of the ways formerly treated of for the planting of Fruits, or some other ways of Husbandry more advantageous than the old beaten way, so much by some contended for, there being no Land, especially the smaller Farms, but is capable of improvement by some of those methods proposed: Although I know that there are many that contend for the ancient way of Husbandry, and living upon our own growths and manufactures as of old we have done, slighting and contemning the improvements that are daily made  
in

*Vide  
Vinetum  
Britannicum.*

*Systema  
Agricoltura.*



*To the Reader.*

in all manner of Husbandry and *Horti-culture*, and in all Mechanick Arts and manufactures, seeming to emulate the felicity of former Ages, not considering the great mutations that are made in the world, as well in the various occupations and exercises of men, as in things of higher natures; many new Arts are discovered, and new ways of trade, not only to encrease manufactures, but to facilitate the great labour and expence men are put unto in the vulgar method of using them, of which very little hath hitherto been written, and of which (as time and opportunity shall favour me) I intend to discourse particularly, (having made a thorow scrutiny into many Trades, Arts, and Occupations to discover the great imperfections and defects of them.) Which may be of great use to the advancement of  
Trade,



## *The Preface*

Trade, and to the converting the labour and industry of the people of this Nation, and their beasts of labour to the greatest advantage, there being nothing more wanting in this Nation than hands to work up, and people to manage the great plenty of materials *England* affords: Not that I will propose conjectures and probabilities for real experiments and inventions, gain priviledges for their sole use, and leave others at their own cost and pains, to discover the truths and errors of them: And if they prove advantageous, to engross the profit to my self as several have lately done. But faithfully to convince the impartial of former defects, and most apt ways to improve such mechanick Arts and designs, that there may be as well an improvement of the manufactures and mechanick Arts, that  
are



*To the Reader.*

are operated out of our own growths  
and productions, as well as an en-  
crease of such growths and pro-  
ductions themselves, all conducing  
to the honour, reputation, strength,  
and advantage of this Nation. Many  
have set to their helping hands to  
several parts of that design, but ra-  
ther by way of proposals or encou-  
ragements ( which have not been  
altogether vain and useles) others  
by irregular and unsuccessful at-  
tempts, by which means some light  
hath been given to other things that  
have not proved unuseful : As it is  
observed that those that attempt the  
Philosophers stone failing of their  
end, yet they discover many rare  
things of use and delight ; and as  
hath been most evident that the ma-  
ny attempts that within these forty  
years have been made to keep Bees,  
(those profitable insects) in wooden  
cases;



## *The Preface*

cases, and thereby annually to take their honey and yet preserve their lives, although the invention or rather conceit hath not yet succeeded, yet hath the hopes of gain prompted many to stock themselves with Bees which design is now more likely than ever to be effected: Many ingenious men having undertaken at their great cost and pains these two last years, and are yet upon their experiments, to see the end of it, very much to the reputation and advantage of him that gives them leave so to do.

There are several objections may be raised against improvement of Lands by Garden Tillage, some of them I shall take notice of in the ensuing Tract, the other are so slight that they are not worthy the mentioning, all seeming to proceed from the same principles, as those have that  
would



*To the Reader.*

would not, that their neighbours should breed Cattel at an easie rate, to hinder them from selling their own at a dear rate, and that would not have the Farmers that live on the dry lands, sow any *Clover*, *St. Foyn*, or such like, because the productions of their lower & richer lands should yield them the greater price, endeavouring to reduce all places to their old natural way of Husbandry, all lands to yield no other commodity, than what it will spontaneously produce, despising art and industry, deeming them as innovations. Nevertheless, I hope I may excuse these persons being our own Countrymen from such stupid ignorance, and impute it to their interest which thus biaffeth their judgments, & puts them sometimes to the charge of a contest which their ignorance only would never provoke them to.



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*Systema*

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*Systema Horti culturae;*

# The Art of Gardening.

**L I B. I.**  
*Of Gardens of Pleasure, and the  
Solid Ornaments thereof.*

**T**He Excellency of a *Garden* is better manifested by Experience, which is the best Mistress, than indicated by an imperfect Pen, which can never sufficiently convince the Reader of those transcendent pleasures, that the Owner of a Complete *Garden* with its Magnificent *Ornaments*, its Stately *Groves*, and infinite variety of never dying *Objects of Delight* every day enjoys: Nor how

B all



## The Art of Gardening.

all his Senses are satiated with the great variety of Objects it yields to every of them: Nor what an influence they have upon the passions of the mind, reducing a discomposed fancy to a more sedate temper by contemplating on those miracles of Nature *Gardens* afford; deemed Miracles, because their admired and strange forms and effects proceed from occult causes.

The Original of *Gardens* was from a Divine Hand: And they also long since delighted in by the wisest of Kings, and in principal esteem ever since by the best of men: The Heathen dedicated them to *Priapus* the Son of *Venus*, and celebrated them as Objects of admiration and delight, and left their immortal names to posterity; as the *Gardens* of the *Hesperides*, *Adonis*, *Alcinous*, &c. The memory of the Latter being yet fresh in the Isle of *Corfu*, where in a most delicious scituation it formerly was supposed to be, as a late Traveller\* hath affirmed.

\*M. Francis Ver-  
non's Let-  
ter to the  
Royal So-  
ciety, N.  
124.

*Tarquin* the Proud (a Roman King) thought no place more worthy than his Garden to give Audience to an Ambassador sent unto him: And the Glory and Pride of the Romans in the time of their  
Emperours,







## The Art of Gardening.

them, which wanting, they would seem without Lustre or Grandeur.

Neither is there a Noble or pleasant Seat in *England* but hath its Gardens for pleasure and delight; scarce an Ingenious Citizen that by his confinement to a Shop, being denied the priviledge of having a real Garden, but hath his boxes, pots, or other receptacles for Flowers, Plants, &c. In imitation of it, what curious Representations of Banquets of Fruits, Flower-pots, Gardens, and such like are painted to the life, to please the Eyes, and satisfie the fancy of such that either cannot obtain the Felicity of enjoying them in reality, or to supply the defect the Winter annually brings.

So that we may without vanity conclude that a Garden of pleasant Avenues, Walks, Fruits, Flowers, Grots, and other branches springing from it, well composed, is the only complete and permanent inanimate object of delight the world affords, ever complying with our various and mutable Minds, feeding us and supplying our fancies with dayly Novels.

All curious pieces of Architecture, Limning, Painting, or what ever else that seem

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## The Art of Gardening.

5

seem pleasant to the eye or other senses at first sight or apprehension, at length become dull by too long acquaintance with them. But the pleasures of a Garden are every day renewed with the approaching *Aurora*.

*(crown'd*  
*While with succeeding Flow'rs the year is*  
*Whose painted Leaves enamel all the ground;*  
*Admire not them, but with more grateful*

*Eyes* *(prize.*  
*To Heaven look, and their great Maker*  
*In a calm night the Earth and Heaven agree,*  
*There radiant Stars, here brighter Flow'rs*  
*we see.*

*Gardens, as if immortal ne'r decay,*  
*And Fading Flow'rs to Fresher still give way.* *Rapinus.*

Such is its pre-excellency that there is scarce a Cottage in most of the Southern Parts of *England* but hath its proportionable Garden, so great a delight do most of men take in it; that they may not only please themselves with the view of the Flowers, Herbs and Trees, as they grow, but furnish themselves and their Neighbours upon extraordinary occasions, as Nuptials, Feasts, and Funerals, with the proper products of their Gardens.



## The Art of Gardening.

Rapinus.

*Flowers in many things convenient are,  
Our Tables, and our Cupboards we prepare  
With them; and better to diffuse their scent,  
We place them in our Rooms for Ornament.  
By others into Garlands they are wrought;  
And so for off' rings to the Altars brought.  
Sometimes to Princes Banquets they ascend,  
And to their Tables Fragrant Odours lend;*

It furnishes our Kitchen and Tables with various Esculents, as well satisfying nature as pleasing our Appetites, it yields us various Spirits, Essences, Perfumes, Waters, Unguents, Conserves, Preserves, and many other necessary, useful, and pleasant Dietical and Medicinal Curiosities, which the same *Rapinus* hath elegantly expressed in his Poems on the same Subject, and at last concludes,

*I should too tedious be, If I should sing  
The mighty Aids which Herbs and Flowers  
To the diseases men are subject to: (bring  
For these the Gods with Vertue did endue.*

CHAP.



CHAP. I.

*Of the Scituation and Soyls of a Garden, and their Improvement.*

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SECT. I.

*Of the Scituation of a Garden.*

**I**T may seem needless to say any thing of the Scituation of a Garden, it being so absolute a Concomitant to your Habitation, that a Garden remote or by its self is neither pleasant nor useful. Therefore where ever your House is, near it must be your Garden.

But in case you have not yet laid the foundation of your intended residence. Then may you consider what Ground or Soil is best for your Plantation and Partirre, without which you can never make the other complete.

Therefore as near as you can, let the Soyl be good, deep and light, that Trees and Tillage may prosper in it, and then



8  
**The Art of Gardening.**

you need not question but Flowers will thrive there: Let it have the free and open Air to the East and South, but the South-East is to be preferred, and the North defended by tall Trees which are better than Hills which give too great a reflexion of Heat in the Summer, and impede the cool Breezes that frequently come out from that Coast. If the whole Garden be at some distance defended by tall Trees, it will very much break the fierce Winds and serene Airs that in the Winter and Spring usually annoy the most delicate Plants and Flowers, and will also yield a cooling, refreshing, sweet and healthy Air and Shade in the hottest Seasons.

If the Soyl be dry and warm, a plain Level is best for a Garden, but if it be cold or moist, then declining or shelving towards the Sun is the best position, because by Fosses or by the Walks only the water naturally glides from it. And in such a Garden Trees, Plants and Flowers will thrive exceedingly.

These rules are good where you are to make your election, what sort of ground and where you design your seat, I might have also added the springs of water in or  
near



near your Garden, are great additions to the improvement, Beauty and Glory of it; but that its hoped few will seat themselves where that Element is wanting, unless it be for the sake of some pleasant Grove, Prospect, or delicate Air; Woods and Water, being two of the best Ornaments of the Seat, which may be had in most places, together with a good Air, but seldom Water and a good Prospect.

If you are fixed or limited to a place or scituation, that puts an end to Election, and then you are to consider the nature of the Soil you are on, what it is apt to produce, how to be corrected and improved.

---

SECT. II.

*Of the different, and most natural  
Soils for Gardens.*

**L**ands are usually inclinable to Loam, Clay, Chalk, Marle, or Sand.

A Loamy Land is usually free, and apt to vegetation, warm and easie to till, the sadder the colour the better; if it be free from stones and gravel, with a sandy mixture and mellow withal, it is esteemed the best



## The Art of Gardening.

best for Gardens, for the most sorts of Fruits and Flowers.

There is much Land that is mixed with Clay in too great a proportion, which maketh it apt to bind, and is cold and moist in the Winter season retaining wet too much, and apt to chap in the Summer, it is injurious to most Fruits and Flowers, and therefore hath most need of help of any other.

Chalky Land is generally very sweet, and kind to many Plants that are not very tender, it being cold in the Winter, and suffers not its Plants to put forth early in the Spring, it is not difficult to be corrected, and made more natural to the choicest Fruits and Flowers.

Marle is a very good mixture in Land, so that it be not in too great a quantity, it being much of the nature of Chalk, but easier to be tilled and improved.

Sandy Land is very warm and free, very apt for vegetation, and amicable to most of our choicest Fruits and Flowers. But if the Sand predominate, it will require a constant supply of proper Soils to enrich it.

SECT.



## SECT. III.

*Of the Improvement of such Soils.*

**T**HERE are many parcels of Land lying near Towns, Villages and Houses, that are of that excellent mixture of Loam and other earths, that they are capable to entertain most of the delicate Fruits, Flowers, and other curiosities, that are fit to be planted or propagated in your best Partirs without any other mixture or composition, other than convenient dung of Oxen, Cows, Sheep, Pullen, Pidgeons, and sometimes old and rotten Horsedung, to preserve it in its due and wonted fertility, it being by continual weeding and the attraction of the Plants you furnish it withal, apt to sterilize. So that where your ground is thus naturally fertile and prone to vegetate, you need take no other care than to apply proper Soils or Compositions, according as the Nature of your Plant requires, or to maintain it in its full vigour.

Clay Land being cold, moist and stiff, is to be converted by labour, and mixtures



## The Art of Gardening.

mixtures of a contrary nature, if you dig it often, the Sun, Rain, and Frosts, will make it more friable and fertile: For take Clay and lay it on any other Land, it will in time dissolve, and unite in minute parts with it, that you shall hardly discern it, so also will it be much altered by culture on its own Basis, the wet being carefully drawn from it by declining Canals for that purpose, Water being the only thing that maintains its stubborn nature, if it rest on it.

But to accelerate the operation, and make it speedily more benign, Sand is an excellent ingredient, especially that taken up in the bottoms of Rivers, or where hasty currents have left it at the foot of Hills, or Sea Sand where it may be had. Any old Thatch or corrupted Vegetables as Weeds, Fern, &c. Buried in the Trenches as you dig it, drains the wet from it and makes it more mellow. But above any thing Peat ashes, Turf ashes, or any ashes proportionably, and well mixed is the highest improvement, you can add to your cold, stiff, and moist land. There are several other additions that will improve it, as rotten wood, saw dust, the bottoms of piles of wood great and small, but



but these being not to be had in any great quantity, will serve only in these beds where you intend to plant your choicest Flowers, but Chalk, Lime, Marl and such like, although they sweeten it at the first, yet in the end it unites with the Clay, and is soon converted into its own nature.

Chalky Land usually yields a good rich surface, therefore you must avoid planting too deep in it, and where you can with conveniency, the sinking your Walks; and with the same matter to raise your borders is a very good improvement of this sort of Land. You may also deal with it as with the Clay Land, though in a more moderate way, for Chalky Land is naturally cold, and therefore requires warm applications, and is also sad, and will the better bear with light composts, which is the reason that Chalk is so great an improver of light, hot, and dry grounds, especially having suffered a calcination.

Lands seated on Marl, are usually very rich, although cold and heavy, you need not doubt of the depth of it: for the turning it up and exposing it to the Air, converts it into good earth, a mixture of light and warm soyl exceedingly advantages it.

Sandy Lands, or Land that hath a competent



## The Art of Gardening.

petent mixture of Sand in it, is the warmest and lightest of all, and according to its fatness, it is the most free and apt to produce the most of Vegetables you plant in it. Sandy Lands are best improved by mixture of Chalk, Lime, Marle, the sediments of Ponds, Lakes, or standing Waters, and need a more constant supply of such additions than any other, unless you have the command of some Spring or stream of water to irrigate it, and prevent the Suns exhaling the moisture it so easily parts withal, for we may constantly observe in rainy Summers, what vast products Sandy Land will afford us, compared with the dry. The same you will find in your Gardens, but the hot dungs are here to be neglected, and the more cooling made use of.

There are several other sorts of Land, that are known by several other names, which I might here enumerate, but these being the general, and most Lands falling under some or one of these capacities, I shall not trouble you with them, here brevity being my study.

But if your Lands or Grounds within the precinct of your Garden, be somewhat of a different nature or quality from these  
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before mentioned, yet may those general directions as concerning that Land it is nearest of nature unto, serve for your Land. And if you have any Trees, Plants, or Flowers, that delight in Land different from the more general part of your Plantation, then may you compound your mold in some place proper for such Plant; directions for which you will find dispersed in this succeeding Tract, especially when I come to treat of Esculents.

CHAP.



## CHAP. II.

Of the Form of a Garden, and  
its Fencing and Enclosing.

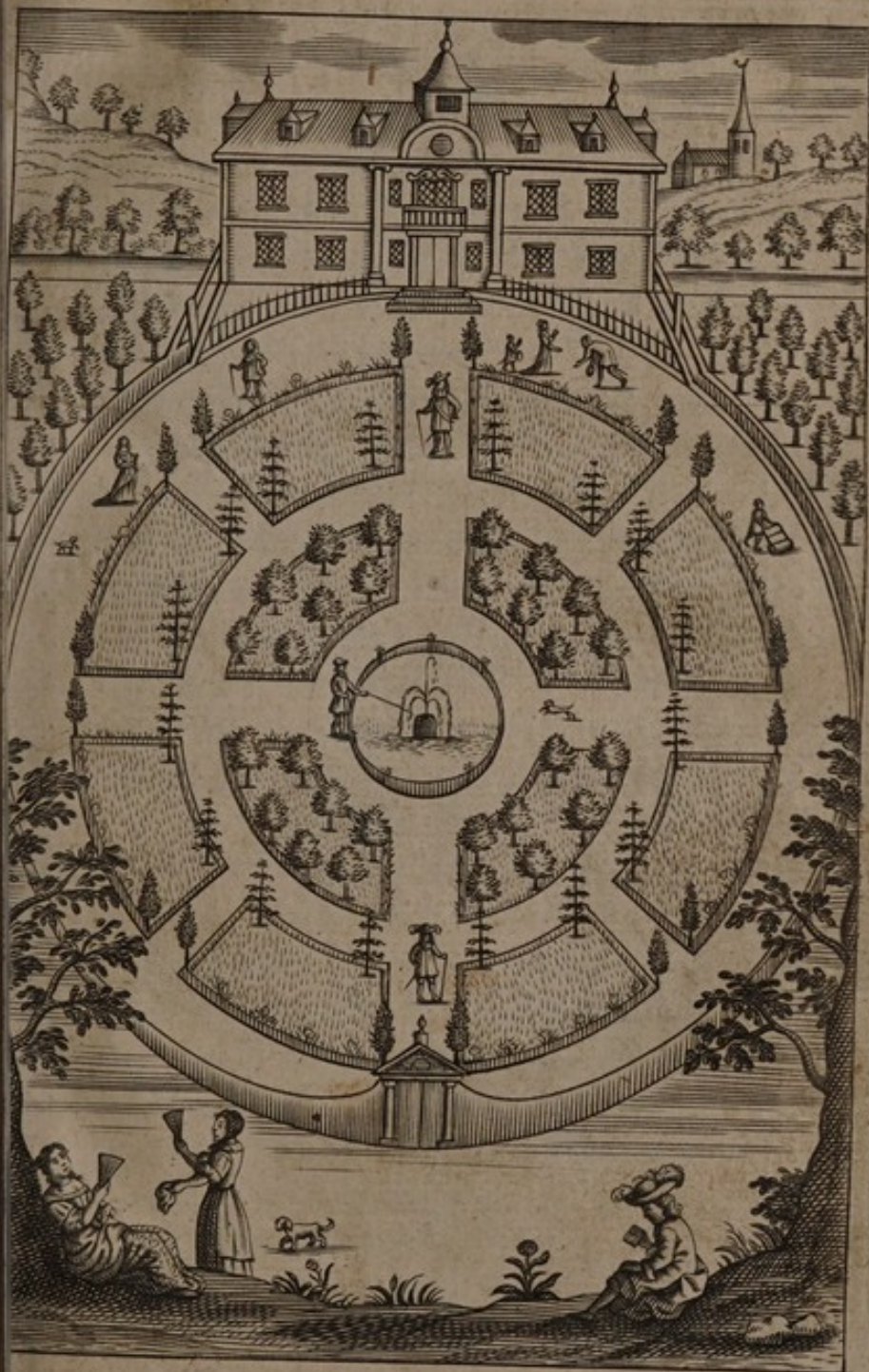
## SECT. I.

## Of the Form of a Garden.

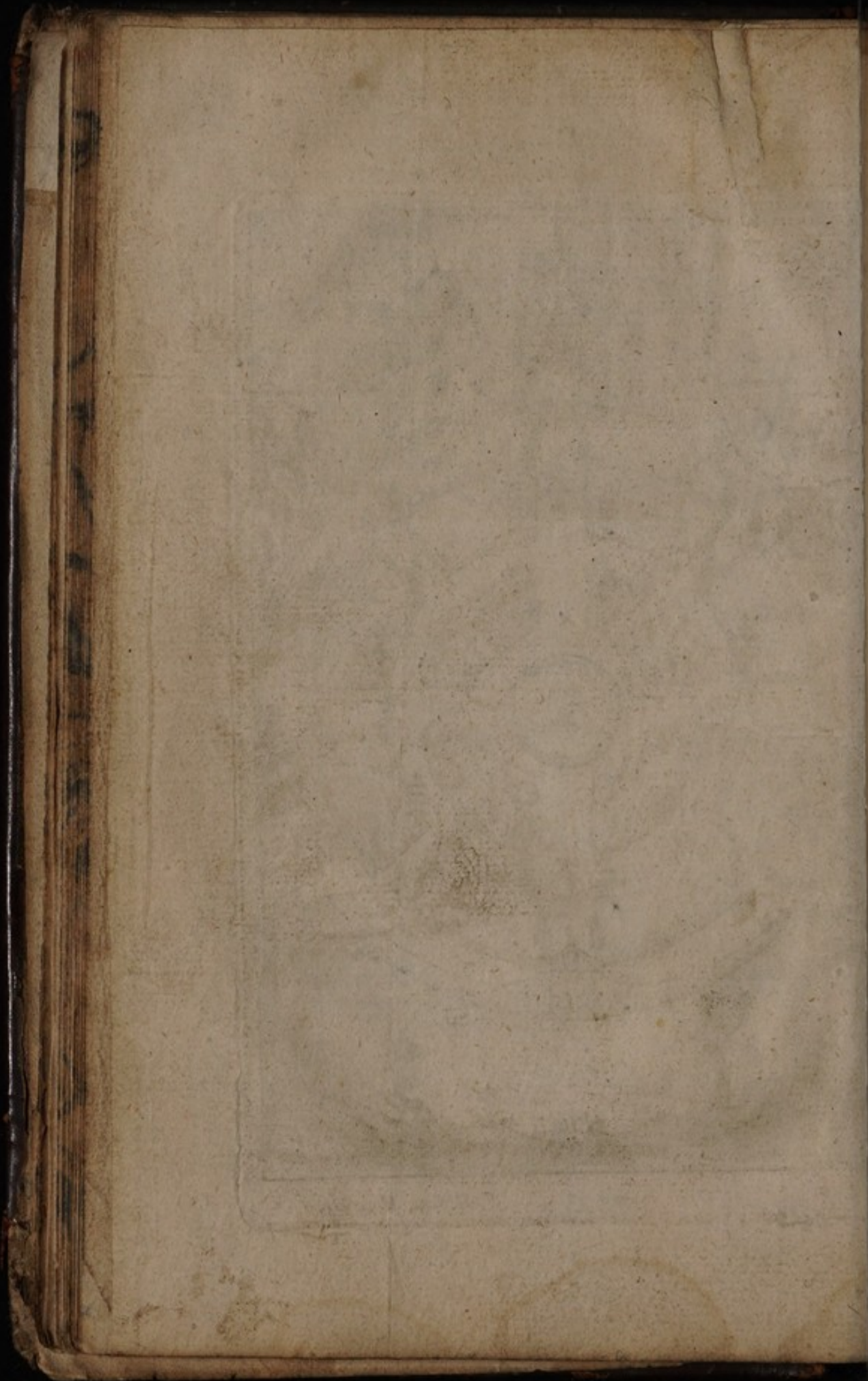
**A**S before was observed concerning the scituation, so now may it be as to the form, that if ye are already limited and bounded, by reason of the scituation of your house, and the contiguous parts about your intended plantation, you must cast it into as good a form or model as you can, but if you are at liberty, then may you make your election of what form pleaseth you best.

The Round is very pleasant, and some curious Gardens there are of that Form in foreign parts. The Walls about such a Garden are very good for fruit, the Winds being not so severe against a Round, as against a streight Wall. The Walk also that circundates that Garden is not unpleasant.









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## The Art of Gardening.

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pleasant, for that you may walk as long as you please in it always forwards without any short turning. some streight Walks there may be that tend from the circumference to the Centre. The several quadrants may be sub-divided and planted with Fruits, the borders of the round Walk, and the Cross Walks being sufficient for Flowers and Plants of beauty and delight. At the Centre of this Garden may be planted a Fountain, or in defect of water a banqueting house or house of pleasure.

A rude draught of such a form is here presented to your view, the outermost Walk being adorned with Cypress Trees, the inner parts of the Grass Plats with Firr Trees, and the Quadrants within the lesser Circle, planted with variety of Fruit Trees, and the principal Walks round and streight, bordered with Flowers, and delightful Shrubs and Plants.

Encompassed with a Pallisade in the Centre of your Garden, is a Fountain of Spring water always flowing, serving not only to refresh the Spirits of such that delight in the sight of it, but is necessary in dry and hot seasons, to preserve your choicest Plants from injury.

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The



## The Art of Gardening.

The Square is the most perfect and pleasant form that you can lay your Garden into, where your ground will afford it, every Walk that is in it being streight, and every Plant and Tree standing in a direct Line, represents it to your Eye very pleasing. The delight you take in walking in it being much the more as you are less careful: for when you walk in a round or circle, you are more subject to trespass on the borders, without continual thoughts and observation of your Ground.

You may divide your Square into three parts by Pallisades, the long way (beginning at your House, the middle third part containing a large Gravel walk, adorn'd on each side with a border of your most Select Plants, Shrubs, and Flowers, between those borders and the Pallisades, green walks with Borders next the Pallisades, on which you may Plant Perennial Greens, and your more ordinary Plants and Flowers.

The other two partitions of your Square you may convert the one of them into an Orchard, the other into a Kitchen Garden which will be no small Ornament to your middle Garden of pleasure.

But if you are willing to celebrate so  
fair



fair a spot of Ground as the whole Square to the delights of *Flora*, then may you divide it into lesser Squares, and make of them Grassplots, leaving only borders on their confines for your variety of plants.

The new mode of Gravel Walks and Grass-plots, is fit only for such houses or Palaces, that are scituated in Cities and great Towns, although they are now become precedents for many stately Country Residencies, where they have banish'd out of their Gardens Flowers, the Miracles of Nature, and the best Ornaments that ever were discovered to make a Seat pleasant. But it's hoped that this new, useless, and unpleasant mode, will like many other vanities grow out of Fashion.

A draught of the Square Garden I have here given you, which may be varied as every designer pleaseth, each principal walk is bordered with Flowers, each principal Corner with Flower pots, and the middle of the greater Square with Statues. The farther end Fenced with a Pallisade, that the prospect of the adjacent Orchard may not be lost, where now the Statues stand, if Water be to be obtained, Fountains would be placed with more delight.

The infinite variety of Forms that might



## The Art of Gardening.

be drawn and here represented to you, would but encrease your charge, when perhaps every Builder may better please himself in in the shape and contrivance of his Garden better than any other can do for him.

But these few rules are not amiss to be observed, *viz.* That you endeavour to make the principal Entrance into your Garden, out of the best Room in your House or very near it, your Walks being places of divertisement after a sedentary repast. The Aromatick Odours they yield, pleasant refreshments after a gross dyet, and such innocent exercises, the best digestive to weak Stomachs. Let there be some other door into your Garden, for Gardeners, Labourers, &c. And let your principal walk extend it self as far as you can in length directly from your choicest Plants for Beauty and Scent, and that there may be a succession of them through the Year, not without Flower pots which Grace the best of Gardens.

If your Ground you intend for a Garden, lye on the side of a Hill, your Walks may be made the one above the other, and be as Terraces the one to the other; the declining sides of them, being either of Grass alone or planted with Fruit. **If**

House adorned  
with the



## The Art of Gardening.

21

If your House stand on the side of a Hill and you must make your Garden either above it or below it, Then make your Garden below it, For it is much more pleasant to view a Garden under the Eye than above it, And to descend into a Garden and ascend into a House, then on the contrary.

As for all other formes and scituations of Ground above your House, you must vary your modells according to the place.

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### SECT. II.

#### *Of Fences and Inclosures to a Garden.*

**W**HEN you have discovered the best Land, and pleased your self with the compleatest Form you can imagine for your Garden; yet with out a good Fence, to preserve it from severall Evils that usually annoy it, your labour is but lost. Your fences must be considered of according to the place you reside in and nature of the Soyl, And is either, of Brick, or Stone, of Earth, Pale, Pallisade, or Quick-setts.

Of all which the Brick-wall is the <sup>1. Of</sup> best, <sup>Brick-</sup> Walls

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## The Art of Gardening.

best, it being the warmest (except board) and very dry and con-natural to Fruit. And where Brick are plenty, it is not a Dear Fence considering that their form much accelerates the raising your Wall, and their even joynts require but little Mortar. You may also make the Wall much thinner with Brick, than any other Material (Square Stone only excepted) because you may make Nieches at a resonable distance, or Square Pillasters on both sides or only one side which will support the wall, although very thin in the intervals: This wall needs no other Coping than Bricks, set on edge side-ways without any over-hanging or dripping, as hath been used.

By which means of building them Thin in the intervalls with Nieches or Pillasters, at fit distances and slender copings, almost half the materials are saved in the building of them, and most of the workmanship.

These Walls are very kind to Fruits under which they bear abundantly; the Nieches and Pillasters conduce very much to the breaking off the cold Winds, and shelter the Fruit from them.

Next unto the Brick, Stone-Walls are preferred

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preferred, the Square hewn Stone out of the Quarry, especially Sand or Free-stone, is the best, the cold white Stone like unto Chalk or Lime-Stone is not so good. The Rough Heath-Stone or Burre is very dry and warm, but by its unevenness is inconvenient to tack Trees against, unless you disperse here & there in the Building some small squares of Timber, or Brick-bats in the joynts whereof Nayles will enter and take. Flints are very cold and uneven joynted and therefore the worst of all Stone for a Garden Fence, Because you may reasonably expect from the ~~Fruits Growing against them in time a full compensation for your charge in Building them.~~

All Stone-walls must be well coped, lest wet insinuates it self between the Stones and decay it in a little time. A coping of Tyle is the best, if made to carry off the drip 3 or 4 inches from the wall.

In many places where Stone is dear, and Brick scarce, and Lime and sand not near, Walls are often made by a Compost of Earth and Straw tempered with it, This Earth must be either of a clayish nature or have a little mixture of Clay in it, it must be well wrought and mixed long with

<sup>3.</sup> Of  
Walls of  
Earth.

C 4

Dung

with



## The Art of Gardening.

Dung or straw which serves to hold it together until it be thoroughly dry; and then according to the skill of the Workman wrought up into a Wall and covered with thatch, being not able to bear a more weighty coping.

These Walls well wrought and well coped and preserved dry will last many years and very warm and kind to Fruits, that is to such that are content to be humble, these Walls being rarely built high.

In the Building these Walls, peices of Wood or Hooks of Iron ought to be placed in, at convenient distances standing three or four inches without the Wall, to which Poles or rayles are to be fastned and to them your Fruit-trees: there being no tacking Trees to the Wall it self.

This way of Fencing is much used in some parts and somewhat resembles the *French* way of making Walls for fruit, for what ever they are made of they are plastered over, and hooks of Iron or Sheeps shank-bones placed in the building of the Wall at some convenient distance to affix the Poles unto, as in the small *French* piece called the *Planters Manuall* adapted only for that Country  
 may



may be observed. Also *Rapinus* at large describes the making of that Wall, and both of them prescribe the plaistring of them, as well to destroy the vermine that would otherwise shelter themselves in the rotten cavities of those Mud Walls, as to accelerate the maturation of your Fruits.

So that here in *England* where other materials are scarce, and such a stiff Loam in the place, these Mud-Walls may prove beneficial, not only for security, warmth and privacy, but for the advancement and melioration of your Fruits, more especially if Lime be not wanting to make a plaister to cover it after that French mode.

It is not improbable that a mixture of Loam, Lime, Sand and Gravel or small Sand stones, may by being raised between two planks, and so by degrees to the height of a Wall, and then well defended by a light coping, make a very good and durable Fence and Shelter for your best Fruits. This seems to be the same way that *Pliny* mentions. The Walls to be made in his time, which then had continued many Years, and not impaired resisting all Weathers, he mentions Turrets and Sconces to have been made after this manner, *Lib. 35. Chap. 14.*

Good



## The Art of Gardening.

4. Of  
Pales.

Good Oaken Timber sawn into Pales make a very good Fence, and not dear where that Timber is plenty: Next unto Oak, Fir or Deal Boards will serve, but scarce any other Board will endure the mutability of the Weather long.

These Boards ought to be well season'd, else will they shrink and chap exceedingly, which will be inconvenient, as well by rendring your Solitary Walks less private, as by admitting cold Breezes to your tender Fruits, but in case your Board do not meet in the dryest and hottest seasons, you may add a small Battel to each Interval, fixt to each Rail by Nails between the Boards, that the swelling and shrinking of the Board may not injure the Battel.

These boarded Fences are the warmest for your tender Fruits, and matures them beyond any other, but being subject to decay, are not repairable without damage to your Trees.

5. Of Pal-  
lisades.

I have already mentioned the most principal and best Fences for the outsides of your Garden, for Privacy, Security, and advantage to your Fruits. There are yet necessary other Fences for the cantoning or dividing your Garden into lesser parts, for the several uses you design them for,

OR



or for the security of some particular parts of your Garden or Fruits or Flowers, from the hands of every one that may otherwise have liberty or occasion to walk there. Yet not to impede or diminish the pleasure in viewing those objects of delight thus defended.

These open Fences are made of Board of about three or four inches broad, and three or four foot long, either nailed to, or let thorow two Rails, with heads cut either round or like a Lance, and painted white with Linseed Oyl, and white Lead two or three times over to make them endure the Weather.

But the best material to make these Pallisades withal is Iron, so framed as are the Iron Balconies in *London*, save only that these appear above the Rails with square painted Heads which seem most beautiful, by reason that Flowers and other delightful plants appear so plain through them, This Fence is also permanent and needs no repair.

In imitation whereof, there is newly made in some few Gardens a Pallisade of Boards, of about three or four inches broad which as before it was set flat-wise, each pale in the Pallisade is now set edge-wise.

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## The Art of Gardening.

the upper Rail running through each pale and the Foot cut with an Ox mouth and set on an Arras Rail, either near the ground or resting on a ground-pinning of Brick. The head of each pale is about three or four inches above the upper Rail, divided into two parts, the middle vacancy being about one third part of the whole breadth, the two extream parts for about four or five inches, being cut with square pyramidical points, do very much resemble those made of Iron. As you stand against them they appear open, and every thing very conspicuous through them like the Iron, but as you view them obliquely they appear full, only their sharp heads more open and not unpleasant. These Pallisades, although they require somewhat more timber and workmanship than the ordinary sort, yet are by far the more compleat and beautiful, every motion of your Body from its place, begetting a variety in the object.

These open Fences are much more pleasant and useful in your Partirs and inward Gardens than close Walls, for these prevent not your view of the whole, nor hinder the free Air from your Plants, which is as necessary in some degree as warmth, which ought to be obtained from Shelters  
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and Fences at a distance, not by too great a reverberation of heat, and stifling in the Summer for want of Air, either of which proves fatal to most Flowers.

Gardens are oftentimes secur'd by quick-Fences, whereof the most easie to propagate is that of the white Thorn, which being well planted in double, treble, or more chests or rows of Plants, and kept weeded and defended for three or four years, will thrive very well in most sorts of Land, and being kept clipp'd, sheer'd, or cut with a sharp hook, will grow so thick that a Bird cannot find its way through, and that from the ground to six or seven foot high, and proves a very great security against bad Weather, evil Neighbours and Cattel, but is a shelter for Snails and other Vermine that will constantly annoy your best Plants, and are not therefore to be planted near your Partir wherein you plant your best Flowers.

A Quick Hedge of Holly is the most beautiful and most Compact of any, but the tediousness of its growth is enough to discourage any man from attempting its propagation, its seed being two years before they appear above the Ground, and its plants long before they let you know of their like or dislike of the Soil.

6. Of  
Quick-  
Fences.

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## The Art of Gardening.

*Pyracantha* planted for a Fence, proves very strong by reason of its sharp Thorns, and stubborn Branches: *Sweet-Bryar* also is very good and makes a fragrant Fence, but the White Thorn will not give way to either of them, being easily propagated, most tonfile of any, durable, of a delicate colour, and early appearing in the Spring.

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CHAP.

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CHAP. III.

*Of the Walks, Arbours, and  
Places of Repose in Gardens.*

**I**T is not the least part of the pleasures of a Garden, to walk and refresh your self either with your Friends or Acquaintance, or else alone retired from the cares of the world, or apart from company that sometimes may prove burthensome to you, and when your own Lassitude or the Heat, Rain, or scorching Beams of the Sun render the open walks unpleasant, to repose your self under some pleasant Tree, or in some Covert or Shade, until you are willing to try the Air again.

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SECT. I.

*Of Walks and Materials for them.*

**W**herefore to accommodate you for <sup>1. Stone-</sup> all seasons wet or dry, hot or <sup>Walks.</sup> cold, it is convenient to have Walks and  
Places



Places in your Garden, proper for them. As for Walks, the best for the Winter and wet seasons are those paved with Stone, about the bredth of five foot in the midst of a Gravel Walk of about five or six foot Gravel on each side the stone, or of Grasse which you please, For on these flat Stones may you walk securely underfoot in all weathers without prejudice to your self or walks.

2. Gravel-Walks.

Next unto the paved stone are the Gravel Walkes to be preferred which if made with a fine skreened red Gravel do very much adorn your Garden and being laid round and kept rolled with a Stone Roller, cast off the Water and are very useful in moist weather to walk on.

The Gravel Wall are best under your Fruit Walks because the Beams or raies of the Sun reflect from them against the Walls much better than from Grasse, and very much advantage your fruit.

The great inconveniences these Walks are subject unto are Weeds and Moisture, To prevent the Weeds you must be sure to remove all manner of Earth clean from the place before you bring in your Gravel, And in case the Earth be not stiff enough of it self, it would not be amiss to support



port the sides with two or three courses of Brick or at least a Brick set on end edge by edge, to prevent the falling in or mixture of the side Earth with your Gravel; yet so that the upper part of your Brick may be an inch beneath the surface of your Walk, that it may not be discerned. If your Ground be good and apt to vegetate, seven or eight inches deep ought your Gravel to ly, lest the Weeds find their way through: you ought also to cleanse the Ground under from the Roots of Grass, Weeds, as Nettles, Docks, &c. lest they find their way through the Gravel, you may fill your Walk with ordinary course unskreened Gravel five or six inches, and after that is levelled, then lay on your last Course of fine Gravel and roll it well, if your upper Course of Gravel be two or three inches thick, and at any time your Walk grow discoloured or mossy, you may stir it with a Spade as far as the fine Gravel lies, and finely rake it, then Roll it again, and it will appear to be as fresh as at the first.

The other inconvenience these Walks are subject unto is Moisture, especially after a Frost, which very much loosens the Gravel, and long soaking Rains make it apt

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to



## The Art of Gardening.

to stick to your Feet: For the best red Gravel hath a mixture of Clay or Loam in it, which makes it in dry weather bind the better; to prevent which, several expedients are lately made use of. Some do grind or beat small the shells of fish gathered on the Sea-shore and therewith add a thin coat on the gravel which by constant rolling incorporates with it, and is not apt to adhere to your Shooes, as is the Gravel it self. Others that Live neer to Brick-kills make use of the refuse parts of Bricks that are under-burnt which will easily Pulverize, and lay that on the Gravel-walks which prevents the same inconvenience, and adds much to the beauty of your Walk and is easily renewed as there is occasion.

On the edge of your Gravel-walks you may lay on each side a narrow Walk of turf for your use in hott weather or when you are willing to favour your Feet or your gravel, which being kept out streight on the edges, beautifies your Gravel.

But if you will have your Walk only Gravel, then will it be necessary to edg it with Brick three or four inches above the surface: to prevent Earth or rubbish from intermixing with it, Bricks sett on

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end side by side is the securest and most lasting way, for this purpose.

Walks of Grass are very pleasant and much to be preferred in the Summer to any of the other, being cold and easie to the Feet. They are either made by laying them with Turf or by raking them fine and Sowing them with Hay-dust or Seed (which may be had at the bottom of a Hay-mow or Rick) and well-rolled and weeded from all gross Weeds will soon become a fine Grass-walk, if these Walks also be laid a little rounding, they will cast off the Water the better and be more commodious for your use than if flatt.

3. Green Walks.

A Water table on each side of two or three inches deep, cut every Year anew, not only receives the wast Water but preserves the Grass or Weeds from mixing with your Borders, and presents your Walk much more pleasant to your eye than if it were otherwise.

To destroy Weeds in the Gravel-Walks or paved Walks where you cannot conveniently eradicate them, you must water it with very Salt Water, or with the liquor they have at the Salters which they call *Bitterne* which absolutely destroys all vegetation where it is cast in an indifferent good quantity.

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4. Of Terrace-walks.

It is none of the least obstructions a Garden affords, to have Terrace Walks, on which you have the benefit of the Air, and prospect on your Garden. These in former Ages (and now also in more hot Countries) were much celebrated, the *Hortipensule's* or *Pendantgardens* were after this manner made above the ordinary level, for the advantage of the Air and pleasure of the Eye, and somewhat to add to the magnificence of the Place, being very Beautiful as well as Commodious.

They are usually made where much Earth or Rubbish is to spare, which would cost time and labour to remove, and here is disposed of to advantage, with the only expence of a Wall on the out-side to support it, or if you please on both, but the inner side to your Garden may be made declining and clothed with Turf. The Wall on the out-side surmounting the top of the Walk about three foot, and on the edge towards your Garden may be set a Rail, or Rail and Ballisters, or a Pallisade, or a quick tonfile hedge of about the same height the Wall is of, that neither side prevent the Air nor impede your prospect.

In some Gardens where Water is at your command,



command, the sinking of an Aquæduct or Piscary will afford you materials for your Terrace-walk, both of which are best and most proper to be made at the farthest distance from your house.

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SECT. II.

*Of Arbors, and Places of Repose.*

**T**O make your Garden pleasant at all times and in all seasons, either in respect of the great variety of Weather, or your own disposition or indisposition, it will be very necessary to accommodate it with places of shade, to skreen you from the scorching Sun-Beams, Canopies to preserve you from the Rain, and Boxes to seclude you from the too cold Breezes: That although you are not willing to expose your self too much in the intemperate Air, or your present inability or unaptness for a walk be such, that you cannot with delight enjoy it; yet that by them you may not lose those exhilarating pleasures your Garden most times affords.

For cool Recesses in the hottest times, i. Of Ar-  
bours. it hath been usual to erect or frame Arbors

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with



## The Art of Gardening.

with Poles or Rods, and plant them about with shady Trees, which are an Ornament to some Gardens, but to be rejected, 1. Because they require much repair, and care to preserve them, for in your Garden of pleasure you ought to be frugal of cost and pains, lest your delights become occasions of prodigality, and your recreations burthensome to you. 2. Because the Seats are apt to be moist and foul, it being apt to impair your health to sit on a cold Seat, Salubrity being one of the Advantages expected from a Garden. 3. After a shower in the Summer, is the pleasantest time to recreate your Senses amongst your odorous Plants, and then this place of recess is wholly useless, the dripping continuing long after the shower. 4. The usual cool Breezes that you will sensibly feel in those Arbors, balance all the conveniences you can expect from them.

But if the Weather and time of the day invite you to sit in the Air without inconvenience, a Seat under the shade of some *Platanus*, *Lin-Tree*, or the like, is much more pleasant, than to be hoodwinked in an Arbour.

You



You may have a Seat made of thin and light materials, and painted with Oyl of a white colour or as best pleases your fancy, which may be moveable with a little help, and placed sometimes in one place and sometimes in another as the Weather happens. This Seat may be made close behind and covered, that being set with the back to the Wind, will be both warm and dry.

In the Nieches of your Wall may you place Seats covered over, that you may rest your self in at your pleasure: At the ends of your Walks are the most proper places for such Seats, that whilst you sit in either of them, you have the view of your Garden.

The best Form for these Seats is round, the one semicircle within the Wall, the other without with a *Cupulo*, the outward part to be supported by three or four, or more columns of Timber or Stone, the other part resting on the Wall, the Top covered with Lead, Slate or Shingle, with its due Cornish about that part that is off from the Wall.

Or you may make them of a long square Form, about two foot in the Niech of the Wall and as much without, covered as



## The Art of Gardening.

the round, but casting the drip side-ways or backward.

Having several of these Seats facing to each Coast, be the Wind or Sun either way, you have a place to defend your self from it.

You may also cover your Benches or Stools with Mat, and lay the Floors with Board, which will much conduce to your own ease and health.

3. Of Pleasure-houses.

Arbours, Benches, and Seats are very necessary, being present expedients for them that are weary, but that which Crowns the pleasures of a Garden is a place of repose, where neither Wind, Rain, heat, nor cold can annoy you.

This small Edifice, usually term'd a Pleasure-house or Banqueting-house, may be made at some remote Angle of your Garden: For the more remote it is from your house, the more private will you be from the frequent disturbances of your Family or Acquaintance, and being made at an Angle, part within your Garden and part without, you will have the priviledges and advantages of Air and View, which otherwise you will want, and which render it much more pleasant than to be without them.

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## The Art of Gardening.

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The Windows and Doors, the one or other respecting every Coast, may be glazed with the best and most transparent Glass, to represent every Object through it the more splendid, with Skreens of printed and painted Sarcenet, to prevent in the day, and shutters of thin Wainscot, in the Night, others from disturbing your Solitary repose.

Also you may reap the pleasure and advantage of the Air from either Coast, by opening that side of your small Edifice, from whence you would receive it, excluding on the other side that which might otherwise annoy you.

In the other corner of your Garden or some opposite place to such pleasure-houses, may you erect another of the same Form to answer it as to your view, which may serve as a place to preserve your tender plants, in during the extremity of the Winter, and it is usually term'd a *Greenhouse*, because several Winters Greens are therein preserved, that will not endure the severity of that season, in it also may you dispose on shelves your dry Roots of Flowers and Seeds, until the time of the Year mind you of interring them.

*4. Of Repositories for tender Plants.*

On



## The Art of Gardening.

On these small Edifices may you bestow what cost you can afford, and make them (as they deserve to be) the principal Ornaments of your Ville.

5. of  
Mounts.

It is not unusual to raise a Mount with the wast Earth or Rubbish, you may otherwise happen to be troubled withal, at some convenient distance from your house, on which as on your Terrace-walks you have the advantage of the Air and prospect, and whereon you may erect a *Pleasure* or *Banqueting-house*, or such like place of Repose.

The most famous of this kind is that near *Marlborough*, whether first raised by Art or Nature is not yet determined, however it hath a most pleasant and easie ascent, and from the Summit whereof you have a good Air and a fair prospect.

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CHAP.



CHAP. IV.

Of Springs, Rivers, Fountains, Water-works, and Grotto's, necessary for a Garden.

**I**T is not to be denied, that a kind and fruitful Soil may produce all sorts of Plants proper for a Garden of pleasure, use, or advantage, which may render such a place delightful, yet cannot such a Garden ever be said to be complete, nor in its full splendor and beauty, without this Element of Water. Wherefore *Rapinus* adviseth that,

(ment,

*You then who would your Villa's Grace augment,  
And on its honour always are intent;  
You who employ your time to cultivate  
Your Gardens, and to make their Glory great,  
Among your Groves and Flowers let Water  
Flow,  
Water's the Soul of Groves and Flowers too.*

Besides the particular uses you may put



## The Art of Gardening.

put it into in watring your several Gardens, it is very pleasant to have your Piscaries, Rivulets, Fountains, &c. about your Ville.

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### SECT. I.

#### *Of Springs.*

**M**Any Pleasant Seats, Villes and Gardens there are, that are very well scituate for Air and prospect, that are of themselves dry, which defect may be supplied from Springs of Water rising at some distance, and may be conveyed by Pipes, to such places in your Ville or Garden as you desire.

*Of Pipes  
for Water.*

In places where Wood is plenty, the Elm is the most proper material to make Pipes withal for the conveyance of water from the Spring to your Garden, not being subject to be torn by Frost as are the Leaden or Earthen Pipes, either of which you must be sure to lay deep enough, below the surface of the Earth, that the Frost may not reach them.

Leaden Pipes are the most convenient where Water is to be raised to any considerable



rable height, being not apt to grow leaky nor to decay, but you must be sure to lay them deep in clay as you can, but not in any mixture of Lime or such like, lest it decay the metal, also you must have a turn-cock at the lowest part of your pipe where must be a passage, that out of it you may lett the Water at the beginning of a Frost, to prevent the Pipes from breaking.

Earthen Pipes may be made of about 3 foot in length and made to fit the one into the other, and as they are laid deep in a soft bed of Earth, Clay or Sand, the joynts may be closed with a cement of quick-Lime, Linsed-Oyl and Cotten-wool, and bound about the joynt with a piece of Leather & a turn or two of pack-thread, but these Pipes are not for forcing the water to any height, being apt to break, but are very necessary cheap and sweet for the conveyance of any Spring without force to the place you desire.

Sometimes it happens that Springs ly concealed in the Earth, which may, if discovered prove very useful in your Ville and pleasant in your Garden, which to discover observe the precepts of *Rapinus*,

*Where*



## The Art of Gardening.

*Where small declining Hillocks you perceive,  
Or any Soyl where Flaggs and Rushes live,  
Where the fat Ground a shiny moisture yields,  
If Weeds and prickly Sedge o'spread the  
Fields;*

*There hidden Springs with confidence expect,  
For Sedgy Places still to Springs direct.*

Also several Rusticks there are, that can direct you to the nearest Spring being acquainted with the nature of the Soyl and place.

These if they ly above or level with your Garden may be brought by Pipes into it, but if they happen to lye below it, then must you erect Cisterns or Receptacles above your Springs, that they may command your Garden, and raise the Water into them by Machins made for that purpose moved by men, Horses or the Wind which when full may serve to supply your Garden for a certain time, and when expired the said Cisterns may be again filled by the former means.

SECT.



## SECT. II.

*Of Rivers.*

**A**Lthough small Crystalline Springs brought in Pipes may be sufficient to irrigate your Groves and Plants, and supply your Grotts and Fountains and add very much to the splendor of your Garden; yet,

*— If my advice you take,  
In the low Places of your Garden make,  
Besides the other Springs, large Trenches too,  
To which from every part the Streams may  
flow.*

*For little Brooks and Springs are not so good,  
Nor please so much as a more noble Flood.* Rapinus.

A Fair stream or Current flowing through or neer your Garden adds much to the Glory, and pleasure of it, On the banks of it may you plant several aquatick Exoticks, & have your seats or places of repose under their Umbrage. and there satiate your self with the view of the Curling Streams and its nimble Inhabitants. These  
Gliding



## The Art of Gardening.

Gliding Streams refrigerate the Air in a Summer evening, and render their banks so pleasant, that they become resistless Charms to your Senses, by the murmuring Noise, the Undulation of the Water, the verdant Banks and Shades over them, the sporting Fish confin'd within your own limits, the beautiful Swans, and by the pleasant notes of singing Birds, that delight in Groves on the Banks of such Rivulets.

Where such a Stream or Rivulet cannot naturally glide through your Garden but near unto it, it's probable that part of it may be raised by some Machine, at some distance from your Garden, and by an Aquæduct conveyed through it, which will be more commodious (the charge only excepted in the bringing it thither) than the natural Current. 1. Because natural Currents are usually in the lowest grounds, which are not so proper for a Garden, as a declining or ground above the level of the adjacent Lands. 2. For that an Artificial Current is not subject to those extravagancies, that the natural usually are, by overflowing after hasty Rains. 3. Those waters that are brought by Art are easily carried off again, and may be conducted



## The Art of Gardening.

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conducted to several parts of your Garden on the edges of your declining Walks whether they decline little or much, if but little then may Canals be made in the natural Earth, without any danger of decay or wearing, as *Rapinus* observed of the Water running through the Gardens of *Lian Court*.

*For by the Gardens side, the Rivers pass,  
From no steep Cliff, but down a bank of Grass;*

But if your Garden ly on a more declining Bank, then are your Aquæducts to be paved and edged with Stone or Brick, lest the Velocity of the Current by degrees eat away the Earth before it, these Aquæducts may be carried almost level and have their Precipices at several distances, as the form of your Garden will bear: these Water-falls will appear very pleasant if made broad at the end, as the same Poet tells you,

*Nor should it less deserve of our esteem,  
When from an even Bed diffus'd the stream,  
Runs down a polish'd Rock, and as it flows,  
Like Linnen in the Air expanded shows.*

Waters



4. Waters brought in by art may better be confin'd in canals regularly made, and Fish kept in them easier preserved than in the natural, where inundations usually unstock your Piscaries, therefore if you can choose rather to bring a fair Current of Water through your Garden, above the level of the main River, if it cannot be done by an ordinary Aquæduct, yet may it by an Engin placed in the River where the one part of the Water shall constantly raise another for your purpose, the manner of making and ordering whereof is not proper for this place.

—Vide Systema Agriculturae.

### SECT. III.

#### Of Fountains.

Fountains are Principal Ornaments in a Garden, scarce a famous Garden in Europe without its Fountains which were primarily intended for Bathing and are in the more southern Countries used for that purpose to this day. The *Italians* bestow very great cost in Beautifying them for that use: the *French* are very prodigal in



## The Art of Gardening.

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in their Expences about Fountains: and several Curious Gardens in *England* have them; but here only for Ornament, they are generally made of Stone, some square others round or Oval, and of divers other forms, some flat in the bottom, others round like a *Bason*.

Into some the Water is cast by Pipes from the sides out of the Mouths of several figures representing Animals or out of the Pipes of *Eurs* of Stone standing on the Brim of the Fountain, or the Water is cast from some *Figure* or *Statue* erected in the middle of the *Fountain*, or from *Pipes* standing upright in the midst of it.

There must also be wast Pipes or Cavities to convey away the Water from such Fountains, which must be so made that at your pleasure you may drain your Fountain and cleanse it, and must be of capacity to carry off all the Water as it comes, lest it annoy your Garden, for the greater quantity of Water you have, the more pleasant will it appear.

*Plenty in Fountains alwayes graceful shows,  
And greatest Beauty from abundance flows.*

But where neither Springs nor Rivers

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can



## The Art of Gardening.

can be obtained to complete your pleasures, yet for use & a little fordelight may Water be procured from the Heavens by preserving the drips of the House and conveying it to some Cistern made for that purpose in your Garden which may resemble a Fountain, or make a fair receptacle in your Garden for the Water that may be gained from the declining Walks of your Garden or from adjacent Hills, as *Rapinus* directs.

*But if the Place you live in be so dry,  
That neither Springs nor Rivers they are  
nigh,  
Then at some distance from your Garden  
make,  
Within the gaping Earth a Spacious lake,  
That like a Magazine may comprehend  
The assembled Floods, which from the Hills  
descend.*

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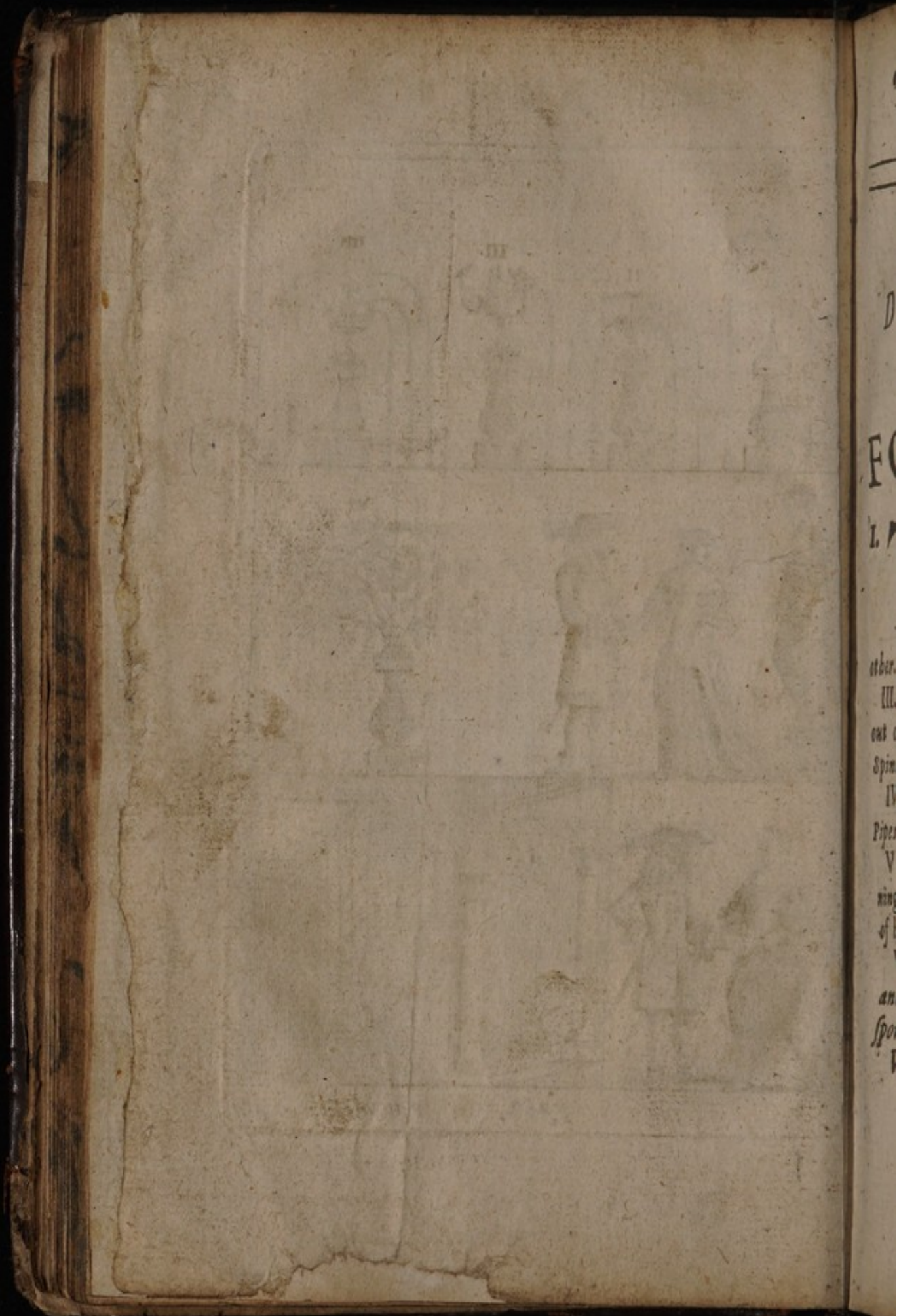
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DESCRIPTION

Of Several Sorts of

FOUNTAINS.

I. **T**He Ball raised by a Spout of Water.

II. The Water representing a double Glass, the one over the other.

III. A Dragon or such like, casting Water out of its mouth, as it runs round on the Spindle.

IV. A Crown casting Water out of several Pipes as it runs round.

V. A Statue of a Woman, that at the turning of a private Cock, shall cast Water out of her Nipples into the Spectators Faces.

VI. The Royal Oak with Leaves, Acorns, and Crowns dropping, and several small spouts round the Top.

VII. The Cistern into which the Water

E 3

flows



## The Art of Gardening.

flows by the Pipe, A. the Air issueth out at the pipe b b b. the ends whereof make the Musical sounds in the Trough of Water at C. which is supplied with Water by the Pipe D. which in time dreins the Cistern, which wast Water precipitates into E. and from E into the common Drein.

These Waters are to be prefer'd for the irrigation of your Plants to any other, and in case you make your Cisterns well, and cement the joynts of your Stone with *Parisian Cement*, or with our own Lime compounded with Linseed Oyl, they will retain the Water for a long time.

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### SECT. IV.

#### *Of Water-works.*

**B**ESIDES those natural courses that are proposed, for the leading the water from the one place of your Garden to the other, after it is entred into its limits, there are several ways of ordering it, where it is either naturally or artificially advanced above the level of your Garden.

*The*



*The docile Streams will any shape put on,  
A Thousand different courses they will run.* Rapinus.

Therefore the Water must be conveyed from some *Cistern* or *Conduit*, standing above your Garden at some distance by Pipes, or else it must by some Artifice be raised into a *Cistern* of Lead over some Lodge or *Grot* in your Garden : That from thence it may by smaller Pipes be secretly conveyed to your several works.

As to the Fountains where it may be cast through various figures as before was hinted in the last Section.

Or it may be made to rise in the midst of a Fountain or your Grotto, through the branches of an Artificial Tree, each Sprig being hollow that it may continually drop with Spouts on the top, for the erecting of greater quantities of water.

Or it may rise in one small upright Stream, carrying a *Ball* of wood on it, which being exactly round and placed on the mouth of the Pipe, and the Water by the opening of a stop-cock made for that purpose admitted by degrees, the Ball will rise and be supported by the Spout of water, to five six or seven foot high, after



## The Art of Gardening.

the same manner as a single pease may be elevated by your Breath on a straw, but in case your Ball be apt to fall, then may you perforate it through the Centre smoothly and exactly in the middle, and place this small hole directly on the middle of the mouth of the Pipe, and so raise the Ball by degrees, and the small spout of water that passes through the Centre of the Ball, will preserve it in its due posture.

By a *Copper Cylinder* made to fit on the top of the Pipe, out of which the water violently flows, to take off and on at pleasure, may you sometimes make the water resemble a large *Glass* inverted, by placing a flat piece of Copper on the top of the *Cylinder*, and leaving only a narrow circular passage under it for the water freely to flow out of it on every side. Another Pipe or *Cylinder* of a lesser size, made to rise off the middle of the said flat piece of Copper or Cap, with a like Cap on the top of it and a passage left as before, will cause the water issuing out of both these *Cylinders* the one over the other, to present a *Glass* within a *Glass* both inverted.

Also *Crowns, Birds, Beasts*, made of light  
Brass



Brass or Copper, hollow and easie to turn on a Cylinder, the one end of the Cylinder is to be set on the top of the Water Pipe, the other end to force the Water with certain thin Veins in the inside of your hollow Figure, which will make it to move swiftly about, ejecting the water out of the sides or Mouth of the Figures in its motion, which is very pleasant to behold.

Secret Pipes may be under the Ground, the ends not appearing above it, that when any Ladies unawares or casually walk or stand over them, by the turning of a stop-cock you may force the Water upright under their Coats to their sudden surprize.

You may also place on Pedestals of about three foot high several Figures at about three Foot distance ten or twenty of a side: the interval between these Figures may be 8 or 10 Foot over. Through these Pedestals and Figures small Pipes must be brought, that the Water may out of the Mouth of the Figures be ejected into the Air, the one Figure directing it towards its opposite Figure, beyond it and a little sideways, so that at the turning of a stop-cock, each Figure shall cast out a stream of water over like a rain-bow, that you may walk under these Spouts as under  
so



so many Arches without any drop falling on you.

But that which is very delightful is the singing of the Nightingal exactly imitated by the motion of the Water, and is thus performed, in some Cavity of your Grott or other edifice where you desire at any time to hear this Musick, you must place a large Cistern of Lead containing ten, twenty or thirty Gallons, as you please: This Cistern must be well closed on every part (except the useful passages for Pipes) into it: near the top must the Water be let in freely through a Pipe of about an inch diameter, then you must have also near the top two, three or four small Pipes issuing out, tending a little downwards, at the end of which you must fix your Pipes made of Brass or other metal, made before you fix them like an ordinary *Fistula* wherewith Children exercise themselves in their pastimes, so that when you try it with your Breath and hold the lower end in Water it shall pipe and chuck as the Nightingal sometimes doth, you may make two, three or four of these of several sizes, the biggest not large, and they will give some distinction in sound these being fixed to the ends of the small Pipes issuing out of your Cistern



stern and the lower ends of them dipping into a trough of Lead a little below the bottom of the Cistern; when by the turning of a stop-cock the Water flows into the Cistern it expelleth the Air through these Pipes which give you your desired Musick, until your Cistern be full, then must you stop the Cock that the Cistern may empty it self again and be ready for another time.

The Pipe through which it empties it self may be at the bottom of the Cistern of about the diameter of one third part of an inch, so that the Pipe that supplies the Cistern with Water must of necessity be of Capacity sufficient to afford Water enough for this under Pipe, and to enforce Air for the musical Pipes, therefore this emptying Pipe you may lessen as you find occasion.

The Water that runs through this lower Pipe may descend into the Trough that is under the Musical Pipes, to supply that with Water.

Instead of this lower Pipe, you may have a Siphon made in your Cistern the inner Foot of it to reach the bottom of the inside, the neck thereof to be near to the top of it but not altogether so high, the  
outer



## The Art of Gardening.

outer foot of it somewhat lower than the bottom, that when the water flows into the Cistern, and stops the inner foot of the Siphon, the Air forthwith gives you your Musick until the Cistern be full, then of its self the water passes through the Siphon until the Cistern be empty. In this way less water will make your Musick, because there is no decrease of it until the Cistern be filled, but then you must not desist until it be full, else it will not flow out of the Siphon. You must also supply the Trough before your Musical Pipes with water from some other Pipe, therefore the former way is the more facile.

By this means may you make many Musical Artificial sounds, and to continue in proportion according to the quantity of your Water and capacity of your Cistern, the water that flows in wast from it, being made to fall from one precipice to another, which with its murmuring noise intermixed with the Musical Pipes, makes an excellent charming harmony, especially none of it being in view, but concealed in Rock-work made for that purpose.

SECT.



## SECT. V.

## Of Grotto's.

**I**T oftentimes happens that in these *Northern Climes*, the *Æstival* heats are more troublesome than they are nearer the *Zodiack*, the Sun continuing here longer above the *Horizon* in the Summer season, than in those parts, which occasions that intemperancy that many times we are sensible of, for as we have less of the presence of the Sun in the Winter, so have we that defect supplied in the Summer.

But those that inhabit more southerly, and have the Sun more perpendicularly over them, are more sensible of the acute heat of that bright Orb about the middle of the day, generally than we are, and therefore about the heat of the day, they usually sequester themselves from their ordinary occupations, and betake themselves to their shades and cool places of *Recess* for some few hours.

Such that have convenient places in their *Villes*, make themselves *Grotto's* or *Caves* in the Earth for that only purpose,  
on



## The Art of Gardening.

on which some have bestowed so much cost and labour that those Grotts have been the object of admiration of, and part of the Subject of several Histories written by several Travellers and Strangers, as are their Baths and Fountains.

For the same reason may our Grotts be as necessary for us, to repose our selves in the time of our Summer faint heats, although they are not here so constant every year as in those parts, yet are they less tolerable, for want of these nocturnal breezes they usually enjoy.

Therefore either in the side of some declivity of a Hill, or under some Mount or Terrace artificially raised, may you make a place of repose, cool and fresh in the greatest heats. It may be Arched over with stone or brick, and you may give it what light or entrance you please. You may make secret rooms and passages within it, and in the outer Room may you have all those before mentioned water-works, for your own or your friends diversions.

It is a place that is capable of giving you so much pleasure and delight, that you may bestow not undeservedly what cost you please on it, by paving it with  
Marble



## The Art of Gardening.

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Marble or immuring it with Stone or Rock-work, either Natural or Artificially resembling the excellencies of nature. The Roof may be made of the same supported with pillars of Marble, and the partitions made of Tables of the same.

The most famous of this kind that this Kingdom affords, is that *Wiltonian Grotto* near unto *Salisbury*, on which no cost was spared to make it compleat, and wherein you may view or might have lately so done the best of water-works, far excelling what *Rapinus* thus sings of late *Rich-lieu's Palace* in *France*.

*Here variously dispos'd the Fountains run,  
First headlong fall; then rise where they  
begun,*

*Receive all Forms, and move on every side,  
With horrid noise, Chimæra gaping wide,  
Out of her open mouth the Water throws,  
For from her Mouth a Rapid Torrent Flows,  
From her wide Throat, as Waves in Circles  
spout,*

*A Serpent turning sprinkles all the rout.*

But they that cannot command the water to Crown the pleasures of their Gardens,



# The Art of Gardening?

dens, yet are there few that cannot find some convenient place for this purpose, it being as necessary in them to avoid the liquefying Air, as in other places the unpleasant Breezes.

The most famous of this kind in this Kingdom is that at Hampton Court, near London, which on which side was placed to make it complete, and shows you may view or might have lately done the best of water works, the excellence of which is beyond all praise.

Here variously disposed the Fountain runs, first descending, then the water runs

## CHAP.

Records of Flowers, and more on every side. With several more, Chinese, and other. One of the most beautiful is at Hampton Court, which is a rapid current that runs from the North West, and flows in Circles.

But they that cannot command the water to Crown the Fountains of their Gardens

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## C H A P. V.

Of Statues, Obelisks, Dyals,  
and other invegetative Or-  
naments.

**I**N all places where there is a Summer <sup>Statues</sup> and a Winter, and where your Gardens of pleasure are sometimes clothed with their verdant garments, and bespangled with variety of Flowers, and at other times wholly dismantled of all these; here to recompence the loss of past pleasures, and to buoy up their hopes of another Spring, many have placed in their Gardens, Statues, and Figures of several Animals, and great variety of other curious pieces of Workmanship, that their walks might be pleasant at any time in those places of never dying pleasures.

Herein the ancient *Romans* were excessively prodigal, sparing of no cost, to adorn their avenues with curious figures for their Winter diversions, as well as with rare plants for their Summer delights. Which vanity (although one of the most excusable)



## The Art of Gardening.

ble) is descended on the *Italians*, whose Gardens are the mirrors of the world, as well for those ornaments as for their excellency of the Plants that are propagated in them.

This mode of adorning Gardens with curious workmanship is now become *English*, how many Statues made by excellent Art, are there to be seen in his Majesties Gardens, and in the Gardens of divers of the nobility of *England*? But what great pity is it that in many places remote from Cities and great Towns, these Statues should drive out of their view, those natural Beauties that so far exceed them?

Much more ornamental are Statues placed in Groves and Shades, and in or near your borders of the choicest Plants than on the naked surface of the Earth, which beget not that surprize in the Spectators, as the other.

Statues are commendable in the midst of Fountains, and Green Squares, in Groves, and at the ends of obscure walks.

2 Obelisks

In the room of Statues in the midst of your Green Squares, Obelisks or single Columns may not be improper, so that the Workmanship be accordingly. Neither can there be a more proper use for an obelisk



lisk, than to support a Globe with its Axis duely placed respecting both Poles, and its circumference on the Equinoctial Line, exactly divided into twenty four parts, and marked with twice twelve hours, that on it at a distance by the shadow only of the Globe on its self, you may discern the hour of the day, and observe how the Day and Night, and Summer and Winter happen throughout the Universe.

Many Dials of various and curious Workmanship are made, and may be placed on Pedestals in the midst of the Squares instead of Statues, which better become the shades.

Dials of Glass, were it not for the casualties they are subject unto, pre-excel any any other for Beauty, especially the Globe with its Axis through the midst and duely elevated with small Beads on it, placed at their due distances according to the lines of the Celestial Globe, painted on the superficies of your orbicular Glass, which will not only give you the true hour of the day, but all other variations that a Dial can direct: But more of these things in another place. 3. Dials.

Other ancient Ornaments of a Garden 4. Flower-  
are Flower-pots, which painted white and pots.



placed on Pedestals, either on the ground in a streight line on the edges of your Walks, or on your Walls, or at the corners of your Squares, are exceeding pleasant.

They are usually made of Potters Clay and burnt, which when full of Earth and frozen in the Winter are apt to break, unless you place another ordinary pot of Earth in the inside of it wherein to plant your Flowers, you design to propagate in them.

But to prevent that casualty of breaking, some are made of Lead which are much to be preferred.

*5. Of an Aviary.*

One of the pleasures that may be esteemed belonging to a Garden is an Aviary, which must be near your house, that you may take some delight in it there as well as in your Garden, and may in all seasons take care of its inhabitants, as for its bigness, manner of making and ordering, it is not proper in this place to be discoursed of, we being rather for an Aviary at large, that the whole Garden with its Groves and Avenues may be full of these pretty singers, that they may with their charming Notes, rouze up our dull Spirits that are too intent upon the  
cares



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cares of this world, and mind us of the Providence, the great God of the Universe hath over us, as well as these Creatures.

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## LIB. II.

*Of the divers Trees, Flowers,  
and Plants, that beautifie  
and adorn a Garden.*

## CHAP. I.

*Of Trees for Ornament and Shade.*

**H**AVING lightly passed over the Scite, Form, Security and dead Ornaments of your Garden; it is time now to give you an account of such Vegetating Ornaments, that are proper and very well becoming the Gardens of the most curious. And because the *Cypress* is the most beautiful and most celebrated Tree, I shall begin with Perennial Greens.

SECT.



## SECT. I.

## Of Winter Greens.

OF all the Trees that have been propagated in our *European* parts, none have yet merited that esteem as the *Cypress* hath done, it being the most uniform, streightest, and most slender of any other, preserving its Verdure throughout the Year.

*x. Of the  
Cypress.*

Its natural Country is *Candia*, where (as *Pliny* writes) if a man plow the ground, and not sow it with some other thing, *Cypresses* will come up, and presently shew above ground, from whence they have been spread into the most parts of *Europe*, so far as the extreme cold will give them leave.

Their Seed seldom or never ripens here in *England*, but such as you have from Foreign parts, you must sow about the beginning of *April*, which when come up and carefully wated and weeded, you may remove.

These Trees may be either planted as Standards, or in Hedges and clipped as other tonfil Hedges usally are, if you intend

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them



## The Art of Gardening.

them for standards, at about three or four years the middle shoot ought to be cut off neer the top, and the whole tree kept cut into a Pyramidical form, and not bound as is the usual custome, only clipp them not late in the Year, lest the Frost prove too fierce and kill your Trees.

For if they are not close bound but clipt, and stand not in a cold moist Ground they will indure the hardest Frosts and sharpest Winds: for I have known many that stood in the lowest part of the Garden killed with the extremity of cold, when others that stood on a *Terrace* more obvious to the cold Winds, escaped, and for no other reason as I could judge but their dry and healthy Soil they grew in.

2. Of the  
*Laurel.*

As the Cypress for its Beauty, so the Laurell for its Glory hath been in great esteem with the Ancients, whose branches have crowned the Heads of Emperors in their Triumphs, and those that were Victors in War or any Solemn Games: the *Laurell* branches are also Emblems of Peace, and of Pre-excellency in any ingenious Science or Enterprize, the ancient *Romans* attributed unto it an extraordinary property it had against the evil effects of Thunder and Lightning and therefore  
planted



planted it near unto their Houses and Lodgings.

It is one of the best Ornamental Trees you can plant either for beauty or shade, it will Cloath your most shady Walls and will endure the most scorching beams of the Sun, it will mount to twenty or thirty Foot in height and be content to be humble and tonsil, no Weather will annoy it, it delights most in moist Ground;

*In watry Vales, where pleasant Fountains  
flow,  
Their Splendent Leaves the Lovely Laurels  
show.*

And agrees best with a cool shady place which is equal to a watry.

They grow tall and bear great plenty of Berries from which the Trees are easily propagated, or from layers or slips, sett in a cold moist place.

The *Laurus Tinus* is a Shrub yielding sweet scented Tufts of white Blossoms in the Winter as well as the Summer, is easily propagated from suckers or layers, and deserves a place amongst the best of your perennial greens.

The *Bay-Tree* our old English plant is  
a fine



## The Art of Gardening.

a fine odoriferous Tree, but worn out of that great esteem that formerly was had of it, by the more beautiful and hardy Laurel.

3. Of the  
*Phylirea.*

Few Greens exceed in beauty either in Branch or Leaf the *Phylirea*, which spreads so fairly and neer the ground, and rises to that height, and so easily managed with the shears, that it is esteemed one of the most pleasant Plants that nature yeilds, it is very hardy and endures our generally most severe Winters, having never known them nip'd with fierce cold but once (*Anno 1663.*) and then the Branches being for the most part cut off, the Tree reassumed its former Lustre.

It is raised of Seeds, and may be encreased by Layers and sometimes by Slips, it will not easily bear a remove till the coldest seasons are over.

There are two sorts of it, the one with a smaller and more edged Leaf than the other, which yields great plenty of blossoms in the Winter which last until the Spring, but the barren Tree is the more beautiful.

These Trees may be cutt into any form high or low, in Hedges or in single Trees, and will cover a Seat or Bower in a short time,

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time, and more neatly than any Tree whatsoever.

A Species of the same is the *Alaternus*, a <sup>4. Of the</sup> *Alaternus.* hardy pleasant Shrub, not aspiring to that height as the *Phylirea*, but is apt for Hedges, and easily managed.

Most of the ancient Gardens of England <sup>5. Of the</sup> *Box-tree.* were formerly beautified with this never dying *Box*, because you might have reduced it to any form or shape high or low, but by reason of the ill Savor emitted from it, and by its spreading Roots continuing long in a place sterilizing the confining Earth, it is now banished our Gardens.

Our Modern Planters have brought into <sup>6. Of the</sup> *Eugh-tree.* our Gardens to adorn our Walks, the *Eugh Tree*, which Growing tall and stout against all Weathers, and its small twigs sticking close to the Trunk, clothing it alwayes green, no Sun nor shade offending it, is one of the most ornamental Trees you can desire.

I should undervalue the judgment and <sup>7. Of the</sup> *Holly.* opinion of our best Arborist *Mr. Evelyn*, if I should not numerate the *Holly* amongst the most select of our Hortense perenniall Greens which hee esteems to be the most incomparable for *Use, Defence, Sight and Ornament,*



*Ornament*, I need say no more of it, seeing his learned Pen hath sufficiently emblazoned its fame.

8. *Of the Firr.*

The Firr-Tree is rather for the Woods, than for the Garden, yet by reason of the slender and aspiring trunk of the streight Firr and the facil keeping and preserving its Branches in a compleat Circular order, it doth very well become a Garden, planted at the Corners of your squares, or in direct lines at a little distance from your Walks.

Having one of these Trees whose top was perished, I clipt it with my sheers, and reduced it to a fine Conick shape; and find it as easy to be managed with the sheers, as any other Plant.

They are easily propagated from the seed taken out of the cloggs and sown in March, and very well endure a remove, all other sorts of Firr and Pines, besides the streight small leaved Firr are to be excluded your Garden of pleasure being not capable of being reduced to a compleat form.

9. *Of the Cedar.*

For the rarity of it more than for its beauty may the famous Cedar find a place in your Garden, the name whereof is sufficient to revive those stupendious relations

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of the Magnitude, Durableness, Excellency and Virtues of that most sacred of Trees.

Not unbecoming your Garden, is the *Ilex* or ever Green Oak which is hardy, though slow in growing, and propagated from its Seed or by layers.

10. Of the *Ilex.*

The greater *Tree Stone Crop* is a beautiful green not common but raised from layers and preserved in some Gardens.

11. Of *Tree Stone crop.*

The *Strawberry Tree* as it is so termed from the red berries it usually bears, although difficultly raised from Seeds or Layers and with the like difficulty removed whilst young, yet thrives very well in the warm part of your Garden, adding much beauty to it by its green leaves all the Winter, and its Berries in the Autumn.

12. Of the *Arbutus.*

One of the most Vulgar yet most useful and necessary Greens is the *Rosemary*, a Plant natural to many places in *Spain* but here nourished in the warmest places of our Kitchin Gardens, I have observed in some Country Gardens a dwarf kind of *Rosemary* kept sheered that hath been exceeding comely, the Plant is easily managed, did not the most severe colds destroy it, but that dwarf kind is the more hardy.

13. Of *Rosemary.*

The large double *Rosemary* is the more Ornamental



ornamental to a Garden ; but that with a double blossom the more rare.

14. Of  
*Pyra-  
can-  
tha.*

The *Pyracantha* or ever green Hawthorn is a compleat Tree for a Fence, its Thorns being strong and sharp, it is also very beautiful when its Berries are ripe, which are of a Coralline red, its Leaves ever green but not very thick.

15. Of  
*Arbor-  
Vita.*

The *Arbor vite* so called from its ever green and hardy leaf, may be planted to make up your number of Greens, for its rarity, but not for its beauty, any more than the *Savin*, which is much like it.

16. Of the  
*Celastrus.*

The *Celastrus* or Staff-tree, bearing a few Green leaves over the winter, and as Mr. *Rez* adviseth, is fit to be mixed with *Pyracantha* for the making of the ever green hedge.

These ever green Plants have in them a strong resinacious Juice, that fortifies them against the cold, and is the cause of the continuing of the Leaf so long on the Stalk, as may be observed in the *Firr* and *Pine*, what an abundance of that Terebin-tine Sap do they contain, enduring the most fierce colds the Northern Climate yields, the *Cypress* and the *Rosemary* both yield a very hot and resinous sap.

The *Holly* affords us out of its bark, that  
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glutinous lime that ensnares the heedless Fowl, which diffused naturally into its leaves, enables them against all the inconveniencies of Winter and Cold. The *Phylirea* hath a very strong Sap that preserves it, as appears by its Blossoms affording so much matter for the *Bees* to feed on in the Months of *January* and *February*. All the other Winter Greens have more or less of the like resinacious and glutinous *Sap* or Juice, that is not so easily preyed upon by extreme colds.

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 SECT. II.

*Of Variegated or Gilded Leafed Plants.*

These Perennial Greens are very Ornamental, planted in their proper places of your Garden and Avenues, by reason of their perpetual Verdure, that the Winter that seems elsewhere most barren, here amongst these Greens appears like a perpetual Spring, yet must these give place to the most beautiful of Trees and Shrubs, of the same kinds (as to their durability) by reason of their variegations, but much excelling them. For



For what can be more pleasant than to have Groves or Walks (when the Flowers that are but for a Day are retired) apparelled with Gilded party-colour Garments, some with yellow and Green, others with white and Green, emulating the two royal Metals that by the Gilders hand adorn the Palaces of Princes. The most excellent of all which gilded Plants is the

1. Gilded  
Holly.

*Holly* whose Bark as well as Leaf is variegated with a bright yellow, the more yellow the Leaf is the more beautiful is the Plant, if *Vulgar Green Holly* be so glorious, and refreshing an Object as *Mr. Evelyn* hath Characterized it to be, then certainly the same with a due mixture of a bright yellow must pre-excel. In fine whosoever hath once seen this Tree will not think any *Perennial* green equal to it, for it is like the true scarlet dy, which present debaseth all other Colours.

2. Gilded  
Laurel.

The Gilded Laurel is a very pleasant Tree although inferiour to the *Holly*, for want of that Oriental Verdure and more polite Leaf, but this Plant is more rare to be obtained than the Gilded *Holly*.

3. Gilded  
Phylirea  
and Niaternus.

Of *Phylirea* also there is a sort that is much variegated with white and is very pleasant, as the like there is of *Niaternus* which

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which is not altogether so hardy as that of the *Phylirea*, yet both most worthy of your care.

The Leaves of *Box* are on some Trees Gilded with an edge round each of them with yellow, but these Trees do not annually produce all their Leaves Gilded: sometimes they are green, and sometimes Gilded, yet are these Trees not to be wanting in your *Golden Grove*.

4. Gilded  
Box.

There is besides the *Rosemary* that is Gilded with yellow, a sort of it variegated with white, very delightful to the Eye and not so common as the yellow, but both these are to be preserved under warm Walls or other fences to secure them from the too-severe Winds.

5. Gilded  
Rosemary.

The *Periwinckle* is a low creeping Plant, some bearing white, some blew Flowers, Growing wild in many places and scarce worthy of a place in a Garden except for the covering the Ground in the Shades of your Groves and Avenues, with its ever green and running Branches, but the *Gilded Periwinckle* whose Leaves are exceeding well variegated much resembling the *Gilded Phylirea* or *Maternus* is as compleat an Ornament for clothing the Earth of your *Golden Grove*, as any of the Gilded

6. Gilded  
Periwin-  
ckle.

G

Trees



Trees are for the more lofty part of it.

7. *Gilded Lilly.*

And although your Gilded Trees are most becoming in a Grove or Walk, and the Periwinkle be proper for a humble Ornament, yet some Plants of a middle rank or degree may not unbecome so splendid an Object; of which none can be more suitable than the Lilly whose Verdant Shining, Pale-green Leaves are curiously painted by Nature's Pencil with yellow, appearing at a great distance as well as near very beautiful, these Leaves from the Ground to the top of the Stalk, from the Spring to the Autumn, being much more comely than the Blossom, which is the fair white Lilly.

8. *Gilded Night-shade and Mugwort.*

It is known to all Naturalists that the best garden ground is most prone to weeds which are its Spontaneous productions, and seeing that Weeds are expected in our Grove as well as in our Garden, it were better that it were in part supplied for want of Gilded Leaved-flowers with *Gilded Weeds*, whereof the *Night-shade*, otherwise a noisome Weed, but with its variegated Leaves, and here and there thinly dispersed, with *Gilded Mugwort* another Weed of the like nature, would make a good mixture with the other  
richer



richer dyes, like the ordinary Colours in a Picture which serve to illustrate the more excellent.

Some other sorts of Gilded Plants there may probably be; but these are all that I have hitherto observed. As these have been casually met withal, and from them others have been raised, so by the same reason may other sorts be discovered that yet have not been observed.

For travelling through some part of *Glamorganshire* and discoursing of these *Variegated greens*, one of that country assured me that in that County was a very large *Holly* with all its Leaves curiously Gilded, growing wild in a Wood which was not unlikely, for from the Woods they first came, but that which was most strange was that the same Tree should be neglected, and not a great number of Plants raised from it.

The reasons why such variety of colours should appear in the Leaves of Trees and Plants is not to be discovered, seeing that we may observe the like in the various colours of some sorts of Beasts and Birds, and they as well as these are also apt to degenerate. And as these curious Plants are by accident, or some secret



inclination of nature discovered unto us, so they are the more to be valued, and on them may we the better bestow our delight and admiration.

9. *The Embroidered Elder.*

Thus will we conclude this Section, of monstrous curiosities in the leaves of Plants, with that of the *Elder-tree*. It happened that about two years since, (being *Anno 1674.*) A Gardener near *London*, by accident discovered in a hedge an *Elder-tree*, whose Leaves seem'd to be embroidered, by the swelling of the veins that spread themselves throughout the Leaf, and appearing of a different colour from the rest of it, they being of a curious texture, made them appear to the Eye most beautiful and rare, which Tree he transplanted into his Garden, as no small curiosity.

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### SECT. III.

*Of other Trees propagated for their Beauty and Shade.*

1. *Of the Platanus.*

**B**ESIDES these Perennial Greens and other rarities in nature that seem to take up so large a room in your Plantation,



tion, yet are there other Trees that in the Spring and throughout the Summer, do very much adorn your *Groves* and *Avenues*, and cool and refresh those that delight to walk in them in the heat of those seasons. The most principal of which is the *Platanus*, a Tree so much admired by the Ancient *Romans*, that they preferred them before any of their own Native productions, and that for their Shades only, it so absolutely excluding the Beams of the Sun in the Summer, and admitting them in the Winter. The Branches are but thin and slender, the Leaves broad and of colour pleasant, the Tree groweth large. *Pliny* records that in his time, a *Plane-tree* was of that bigness that being hollow within, eighteen persons usually sate on Benches in it, and supp'd with *Licinius Mutianus* its owner. This Tree delights in Water: for the Tree that grew to that bigness, had a cool Fountain adjoyning to it, and those that had not so convenient a place for it, yet it seems by *Pliny*, out of their extraordinary affection to it, irrigated it with better Liquor. He also tells you of another that the Emperor *Caligula* had in his Ville, in which was a capacious Room, that fifteen persons might



fit at a repast, and yet space enough for their Servitors to wait on them. In truth, the World doth not yield a more beautiful Tree for shade than the *Plane*. It grows and prospers well if planted in a moist ground, or be constantly watered whilst it is young, and will soon arrive to your desired bigness.

2. The  
*Plinia.*

Unto the *Platanus*,

*High shooting Linden, next exacts your care,  
With Grateful Shades, to those who take the  
Air.*

This Tree seems to contend with the *Platanus* for beauty and shade, only its Leaves are not so fair, but for its conick or pyramidal Form it exceeds most Trees, and for its sweet scent, wherewith it perfumes the Air in the Months of *July* and *August*, there is no Tree comparable to it of that magnitude. The Bees will testifie it, who in innumerable multitudes gather on the rows of these Trees when they are in blossom. They are reducible almost to any form, if planted at a distance they spread, if near they aspire. They delight in moist and good ground, and are very quick

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quick of growth. The many large Avenues planted of them in most places, sufficiently demonstrate their beauty, shade, and flavour.

The *Horse-Chestnut* for the beauty of its Leaves in the Spring, and the complete form of its Bole, is not unworthy of a place amongst the best of Trees for Shade, and Ornament. This Tree is very lately made English, being brought in its seed or Nuts from *Constantineple*, it prospers very well here in good light Mold, its buds all the Winter and until it springs, are covered with a shining glutinous matter or Gum, and about the beginning of *May*, it usually makes its whole Years shoot in eight or ten days, and then dilates its Leaves, more pleasant than which scarce any Tree yields.

3. The *Cassanea Equina.*

*Christs Thorn* so named, for that it is said to be the same wherewith our Saviour was Crown'd at *Jerusalem*, near which is the natural place for its growth. This Tree may be placed in your Garden as a rarity, as may that which is yet a greater wonder called

4. *Palivrus.*

The *Glastenbury-thorn* being in appearance a Vulgar white Thorn, yet budding and yielding plentifully its blossoms in De-

5. The *Glastenbury Thorn.*



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*cember.* I have for several years observ'd it in Blossom at *Christmas*, sometimes it blossoms before if the Weather be mild, but if the cold be very severe it will retard it: those Blossoms are succeeded by Berries and Leaves, although Winter, as the ordinary white Thorns are in the Summer. They that read the divinity of the Monastery of *Glastenbury*, may the more easily believe the report of this Tree, that by its blossoming on the twenty fifth day of *December*, it doth not only indicate unto us the very day of our Saviours Nativity, but condemns our sloth and contumacy in not rejoycing with it at so glorious a dispensation.

This Tree flourished many Years in *Wilson* Garden near *Salisbury*, and I suppose is there yet, but is not altogether so exact to a day as its original from whence it came was reported to be, it's probable the faith of our Ancestors might contribute much towards its certainty of time. For imagination doth operate on inanimate things as some have observed.

Thus have you a brief account of the most delightful pleasant and ornamental Trees wherewith to beautifie your *Garden*, *Avenues* and *Groves*, which are shady and



and cool recesses from the noise and cares of the world, and the hot gleams of the Sun, and are an artificial *Epitome* of the larger *Woods, Forrests, and Groves*, so much celebrated by the Ancients, who attributed unto them most divine honour.

Here you may in a small Room and at an easie expence, reap the advantage of those more ample possessions.

*Thus blest is he, who tir'd with his affairs,  
Far from all noise, all vain applause, prepares  
To go, and underneath some silent Shade,  
Which neither cares nor anxious thoughts  
invade,*

*Does for a while himself alone possess,  
Changing the Town for Rural happiness,  
He, if he please, into the Groves may stray,  
Listen to th' Birds, which sing at break of day.* *Rapinus.*

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SECT. IV.

*Of the Propagating and Planting  
the said Trees.*

**T**He several Trees before mentioned, are variously propagated and removed at various times, being many of them *Exoticks*: And therefore the nature of the Climate is to be considered.

Such



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Such of them that are natural to this, or a more Northerly Climate, may be removed at any time of the Winter, but the nearer the Spring the better, and are generally raised of seed, as the *Holly*, the *Eugh*, the *Firr*, the *Pyracantha*, and the *Glastenbury-thorn*. The *Lawrel*, the *Bay*, the *Tilia*, the *Castanea Equina*, although raised by layers as well as by seeds, yet will endure a Winter removal.

The *Cypress*, the *Pine*, the *Cedar*, and the *Celastrus* are more tender, and although they are raised of seed only, yet ought they to be removed in the warmth of the Spring about *March* or *April*. As also the Plants, Slips, or Layers of the *Phylirea*, *Maternus*, *Ilex*, *Arbutus* and *Rosemary*, whether from seed or Layers, because they are brought hither from a more southerly Country.

The *Slips* or *Layers* of all your *Gilded* Plants, deserve your care in removing them at the Spring, or such times as the plain Trees of the same kind ought to be.

The *Box*, the *Greater Tree stone-crop*, *Arbor Vita*, *Savin*, *Platanus*, and the *Palinurus*, are encreased by Slips and Layers only, which must be layd or slipped in the



the Spring, and (except the *Paliurus*) may be removed all the Winter, the *Paliurus* only in the Spring.

It is observed that it is the best way of planting the *Box*, to strip away the leaves from the Slip, and not to wind the Stem but to set it whole without winding.

It is also said that every slip of a *bay-tree*, will grow if set in *March*, the great Leaves being stript off, but they must be shaded and sometimes watred if need require, else they will not so easily take root.

The Gilded Trees or Plants must be encreased by Layers, Slips, or Graffs, for it is observed that by raising of them from Sèed they degenerate.

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CHAP.



## CHAP. II.

*Of Flower-trees.*

**A**fter your *Garden*, *Avenues*, and *Groves* are reduced into such form as you desire, and those adorn'd so far as necessarily they ought to be, with those graceful and immortal *Greens* and other pleasant *Trees* yielding shade and delight, it then behoves you to furnish those intervals that remain, and the borders of your *Walks* with *Flowers*, the wonders of Nature for the richness and variety of their *Colours*, *Scents*, *Forms*, and *Seasons*. Amongst all which those *Shrubs* or *Trees* yielding so great a variety of those objects are most to be prized, and of these is the *Rose* to be preferred.

## SECT. I.

*Of the various kinds of Roses.*

**T**Here is no Flower-bearing Tree that yields so great variety, nor any Blossoms so beautiful as the *Rose*, nor do they



they only adorn but perfume your Gardens.

Now I perceive from whence the Odours flow,  
While on the Roses kinder Zephyrs Blow.  
Out of the Prickly Stalk the Purple-Flower,  
Springs, and commands the Vulgar to adore,  
The Garden-Queen doth now her self display,  
Soiling the Lustre of the rising Day.

Between the Tulip and the Gillyflower, they are the greatest ornament to a Garden whereof the *Yellow Province Rose* 1. Of yellow Roses. is the most beautiful where it brings forth fair and kindly Flowers which hath been obtained by budding a single *Yellow Rose* on the stock of a flourishing *Francford Rose* neer the ground, when that single yellow is well grown in that branch, inoculate your double yellow Rose, then cut off all suckers and shoots from the first and second, leaving only your last, which must be pruned very neer, leaving but few buds, which will have the more nourishment & yield the fairer & more entire blossom.

This Tree or a layer from a Rose of the same kind delights most and blows fairest in a cold moist or shady place and not against a hot Wall.

The



The single yellow Rose is scarce worth the Planting except for the use aforesaid.

2. The  
Austrian  
Rose.

The neereft in Colour to the former is the *Austrian Rose*, being but single, yet in much esteem for its Blossom whose Leaves are of a Scarlet colour within, and on the outside of a pale yellow.

3. The Da-  
mask Rose.

The sweetest and most useful of *Roses* is the *Damask*, which in my *Lord Bacons* time was by him observed nor to have been in *England* above 100 years, of these *Damask* kinds there is one that beareth Blossoms with the first, and so continues with new Blossoms until the frosts prevent it, and is therefore called the *Monthly Rose*, and is not inferior in smell to the *Damask*, and deserves a place amongst your most select Plants, this seems to be the *Rose* that *Pliny* mentions to be growing in *Spain* that blow and Flower all the Winter.

4. The  
Monthly  
Rose.

5. The Da-  
mask Pro-  
vince Rose.

The *Damask Province Rose* differs from the ordinary *Damask* in that only it is very double and fair but not so sweet.

The York  
and Lan-  
caster  
Rose.

The *Damask Rose* with some of its Leaves marked with a faint blush is usually termed the *York and Lancaster Rose*. I suppose because it was the first variegated *Rose* that was here known after the Uniting those two *Houses* or *Roses*.

But



But the best of *Damask Roses* and inferior to none other is the *Damask* completely striped, usually called *Mr. Harts Rose*, it is a very plentiful bearer, the Flowers exceeding sweet and very beautiful, and that Garden is defective that is without it.

7. *Mr. Hart's Rose.*

There are two *Roses* bear the name of *Belgick Roses* the one of a blush Colour bearing many Flowers at the end of a Branch, and those very sweet, and this Tree is esteemed the greatest Bearer of all *Roses*. The other is of a red colour very double and beautiful and in good esteem.

8. *The Belgick Rose.*

The ordinary *Red Rose* is generally known, the *Hungarian Rose* is little better, and the *Red Province* is esteemed only for its fairness, as is the *Dwarf Red Rose* for its humility.

9. *The Red Rose.*

The *Rose* that most illustrates the whole kind is the *Rosa-mundi*, being Red elegantly strip'd with White, two so divers colours appearing plainly at a distance, its scent is weak but that defect is supplied by its beauty.

10. *Rosa Mundi.*

The *Marbled Rose* is a very fair Red Rose, fully and curiously marked or dappled with dark colours, that it very much resembles

11. *The Marbled Rose.*



resembles *Marble*, from whence it hath its name, and deserves a place amongst the best *Roses*.

12. *The Velvet Rose.*

The *Velvet Rose* is the darkest of all *Roses*, and its Leaf much resembling *Velvet*, it's not very double but some more than others. This Tree and the *Rosa mundi*, are very great encreasers.

13. *The Francford Rose.*

The *Francford Rose* yieldeth large shoots and is fit for the budding of the *Yellow Rose* on it, the Flowers not much to be commended, nor is that of the *Rose without Thorns*, or the *Virgin Rose*.

14. *The Cinamon Rose.*

The *Cinamon Rose* is in esteem only for its sweet scent and early blowing, being the first of *Roses*.

15. *The White Rose.*

The vulgar *white* and *blush Roses* are known to most, the *Rosa Canina* so call'd from its whiteness like unto a *Dogs tooth*, yet not so perfectly white as the *Vulgar*, but much more double and for that reason it is esteemed.

16. *Rosa Canina.*

17. *Musk Roses.*

The double *Musk Roses* flower later than any other *Roses* except the *Monthly Rose*: Their scent gives them their name, and deserve a place in your Garden, but the single called the *Spanish Musk Rose*, is not of such value.

18. *Ever green Rose.*

One sort of the *Musk Roses* keepeth on its



its green Leaves all the Winter, which property hath imposed its name, its Flowers are single, yet not to be slighted by the curious.

The vulgar sweet Briar for its excellent odour in the Spring, deserves a place near your House or places of repose, yet not so much as that which bears a double blossom, for which it is preferr'd to it, and is one of the best of odoriferous plants.

19. Double  
Eglantine.

The *Gelder Rose* or *Gelderland Rose*, supposed thence to have its name, or rather *Elder Rose* from the likeness of its branches to *Elder*, having the name of a *Rose* I place it here, although not in any thing resembling it. It is a hardy Tree and yields great plenty of Snow-white bunches of Blossoms and very well becomes a Garden or a Chimney by a due mixture.

20. The  
Gelder  
Rose.

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SECT. II.

*Of Ordering of Rose Trees.*

**R**oses have been in so great esteem from all antiquity that the curious have been very diligent in their propagation, amendment,

H

ment,



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ment and discovery, several having been in several ages produced that were not known to the times preceding, and various wayes have been invented and found out for their propagation, improvement and preservation.

The more excellent sorts of them have succeeded very well by Grafting on the Stock of the common sweet Bryer.

And by inoculation may they be increased on the Stocks of the common Rose Trees, the time for this work is about Midsummer.

And when you have thus obtained one Tree of a sort of the more rare, you may multiply them by laying them, which may be done without the help of Boxes or Pots, the Branches being pliable and the Tree it self humble, only by bending down the Tree and laying the Branches in the Earth and covering the Middle of them, being first prickt with an Awl about some joynt, that is to be under the Earth, this may be done in the Spring, sometimes Watring the Layers in dry Weather, then in the Autumn most of the Spriggs will have taken root, and are in their Prime to be removed, these will never degenerate, and all Cions proceeding



ding from them will be of the same.

To make *Roses* bear early, they must be planted in a very warm place or on a declining Bank towards the Sun, and irrigated with Water, enriched with the hottest dungs or shavings of Horn and Lime steeped in Water: some say warm Water will accelerate their blowing.

To make them bear late, the way approved of by several upon experience, is at the time when they begin to bud, to clip or sheer off all the buds, and when other *Roses* have done blowing these will shoot forth new Buds, thus may you annually continue this pleasant Flower longer then naturally it would, by cutting some of your Trees that they may succeed the other.

Some say if you cut the tops of the Trees in the first of the encrease of the Moon after the Blossoms are faded that another shew of Blossoms will appear about *Michaelmas*, but the other is the more certain way.

To have *Roses* untill *Christmas*, you may plant the monethly Rose in some Niech of your South-wall and you will have Rose buds fresh and fair in *October* and in mild Winters in *November* which by



shutters artificially made may be defended from the cold (sometimes admitting the Sun) until *Christmas*, you may add artificial warmth to them if you please, I have had fair *Rose buds* in *November* with younger by them, which might have been thus preserved.

*Musk Roses* are to be planted against a high Wall or side of some building and not check'd in their growth upwards, lest you hinder their bearing.

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 SECT. III.

*Of divers other Flower-bearing Trees.*

BESIDES the great variety of colours and delightful scent that the *Roses* have for the greatest part of the Summer yielded you, yet there are several other sweet and pleasant Objects Nature hath furnished you withal, if you will lend your assistance to convey them into your *Garden*, of whom none are more gratefully odouriferous than the *Jasmins*.

Nor



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Nor knows he well to make his Garden shine,  
With all delights, Who fragrant Jassemine,  
Neglects to Cherish. ————— Rapinus

The most common is the *Yellow Jassemine*, but the white far exceeds it in beauty and yielding one of the most odoriferous Flowers in nature, as the perfumes made thereof witness. In the Autumnal Season these last furnish you with many Blossoms for a long time until the Frosts prevent them, both these require the help of a Wall or Pallisade, their Branches being but slender and weak, yet enduring the most severe Colds.

The *Indian Jassemine* or the *Mexican Tlixochitile* is a Plant requires a tall Wall to aspire against: at every Joynt it hath small claws or tendrils, insinuating into Brick, Wood, or any other penetrable substance, and requires but small assistance to prune it, it affords a beautiful Scarlet Blossom, in *America* being one of the Ingredients to the famous Drink *Chocolate*.

The two former Jassemines are great encreasers and all of them may be encreased by Layers.

Not inferiour to the best of the former is the *Persian Jassemine*, for that it is a beautiful

1. *Yellow Jassemine*  
2. *White Jassemine*

3. *Indian Jassemine*

4. *The Persian Jassemine*



tiful Shrub yielding in the prime of the Summer most pleasant and well scented Blossoms, which welcome you to the choicest Flowers, Trees will yield. As the *Persian Nuts* and *Iris*, so the *Persian Jassemins* precede in Blossom all others in respect of time, and therefore are the more valued, they are easily encreased by Layers.

s. the Lilac.

Not much unlike in Blossom to the last is the *Syringa Pipe Tree* or *Lilac*, but the white more rare, being but of humble growth, the Bark of a whitish colour, the Leaves of a very pleasant pale colour, affording you Branches of fine scented white Flowers in *April* and *May*, and is a Tree yielding suckers plentifully, which very well merit room in your choicest Avenues.

s. Balaufrum.

The *double blossomed Pomegranate Tree*, is esteemed the rarest of all Flowring Trees yeilding so pleasant a Branch and a much more Lustrious Blossome.

*Pomegranates next their Glory vindicate,  
Their Boughs in Gardens pleasing Charms  
create,  
Nothing their Flaming Purple can exceed,  
From the Green Leaf the Golden Flowers  
proceed.*

This



This Tree deserves the choicest place in your Garden and under the warmest Wall, being tender whilst young, but after very hardy, the Flowers are double fair and beautiful, exceeding all others, born by Trees: they are easily propagated by Layers.

This delicate Plant deserves a little of your care and assistance, in separating from it the many Suckers that usually procede from it, and keep it to a few or but one Branch and sometimes enrich the Ground with well consumed Hog's dung; for it is the plenty of nourishment, makes them apt to Blossom, and too many Branches or Suckers rob them of it, you need not house them but if you doubt your Wall stands too open to the cold Winds which only can hurt them, it is but taking a mat or placing a Skreen before them in the Winter to defend them from it.

The dwarf Almond is a very humble Shrub bearing in *April* many fine Peach-coloured Blossoms, and is a very pleasant Plant and yields plenty of Cions, it deserves a place in your Garden and needs not to be housed, it enduring all Weathers.

*7. Dwarf Almonds.*



8. Mezerion.

The *Mezerion* from whence soever transported is one of the most hardy Plants in nature, sending forth its pleasant, beautiful and odoriferous Plants in the coldest seasons of this Northern Climate, usually in *January* and continues in blossom in *February* and *March*, after them Leaves and then its Coralline berries, by whom it is increased. The Shrub is of a very soft consistence, and although cold, will not kill it, yet is it very tender in the choice of its Ground, I suppose a light Ground or a very moist are not proper for it.

There are three sorts of them, the one of a Peach colour, another more red being not so common, the other and the most rare is the White.

9. the Sena Tree.

There are two sorts of *Sena Trees*, the *Great Bastard Sena* and the *Scorpion Sena*, both of them yielding a pleasant Leaf and fine yellow Blossom, not unbecoming a good Florist's Garden, they are slender and require the help of a Wall, indure all Weathers, are tonfile and therefore reducible into any order, and are increased by Seeds, Layers or Suckers.

10. Spirea Frutes.

The Shrub *Spirea* is a small Tree bearing small peach-coloured blossoms about the



the Month of *August*, it's a hardy Tree and is encreased by Layers.

The *Judas Tree* yields a fine purplish bright red blossom in the Spring, and is encreased by Suckers and Layers. 11. *Arbor Juda.*

The *Bean Trefoyl*, so termed from the likeness of its Leaves to the herb Trefoyl, and its Pods to Beans, it affords many fine yellow blossoms, and is a very pleasant though common Tree, it is encreased by seeds, cuttings, and layers, and requires some artificial helps to support its weak Branches, there are three kinds of these, the smallest is called *Cytisus secundus Clusii*. 12. *Lacurnum.*

Not much unlike to the yellow *Jasmine* is the *Spanish Broom*, only its flowers are like our ordinary broom as are the *Cods*, only larger: it flowers in *May*, and is encreased by Seeds and Suckers. 13. *Spanish Broom.*

The *double Virgins Bower* is a climbing Tree, fit to cover some place of repose, or to be supported by props for that purpose, it bears many dark blew double flowers in *July*, *August*, and until the cold prevents them: you may cut off most of the smallest branches in the Winter, it shoots early and spreads very much in a Summer, it is easily encreased by Layers. 14. *Virgins Bower.*

There



There are of them single both purple and red, but this double is to be preferred.

15. *Wood-*  
*binds.*

The *Honey-suckle*, especially either of the more generous kinds of it, is a plant which though vulgar yet deserves our pains in propagating it. The double and the red are the most choice, and are easily propagated by Layers.

16. *Peri-*  
*ploca.*

*Periploca* is a plant that twists it self about a pole as doth the hop, it lives over the Winter and yearly puts forth small blew blossoms, is encreased by Layers, and entertained in Gardens only for variety sake and not for its beauty.

17. *Alba*  
*Fruticosa.*

Of the *Shrub Mallow* there are two sorts the purple and the white, they endure the Winter, are usually planted Standards, bring forth their Flowers in *August* and *September* until the wet or cold prevent them, the Tree is increased by Layers. The blossoms resemble the blossoms of a Mallow whence it hath its name, and is a fair Autumnal ornament to your Garden, for it buds and blows very late in the Year.

18. *Hype-*  
*risum*  
*Frutex.*

*Hypericum Frutex* is a Shrub yielding abundance of small slender shoots, which in *May* are very thick set with small white blossoms,



blossoms, that the Tree seems to be all hoary with frost or covered with snow : it is increased by Suckers and endures all weathers, and very well becomes the choicest Gardens.

There is a sort of *Peach Tree* yielding double flowers fair and beautiful, deserves a place under your Wall.

19. Double  
flower'd  
Peach  
Tree.

The like there is of *Cherries*, a sort that bears a fair white blossom very double, but yielding no fruit as doth that of the *Peach*, yet a welcome Plant to a good Florist.

20. Double  
flower'd  
Cherry.

There are *Apple Trees* and *Pear Trees* that yield double flowers, but they are not so much regarded.

Thus by propagating and preserving such *Flower-bearing Trees* and *Shrubs*, may you have your Garden and Groves replete with great variety of curious flowers from the end of *January*, when the hardy *Mezerion* exposes its several coloured sweet scented blossoms to your view, until the cruel frosts and winds check the *Monthly Rose*, *Athea fruticosa*, *Virgins Bower*, and *White Jassemine*; and so throughout the whole Summer between those two extremes, and that without the trouble of removing, altering, shading, skreening from



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from cold or other inconveniences, which most other flowers are subject unto, and are therefore much rather to be preferred, yet if you are willing to undergo the little trouble of defending the *Monthly Rose*, or *White Jassmine*, you may have blossoms from them later, and *Roses* even until *Christmas*.

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## CHAP. III.

*Of Bulbous-rooted Flowers.*

**N**Ext unto the *Flower-bearing Trees* are those of Bulbous roots to be preferred for their easie propagation and management, and durableness in all seasons hot and cold.

## SECT. I.

*Of Tulips.*

**O**F all which the *Tulip* hath obtained and not undeservedly the preference, yielding so great a Variety, that they are not here to be enumerated, every Year producing new Flowers, nor is it all the words I can invent can convince you of the beauty of these Glories of Nature, but must refer you to the choice, your self or friend for you, can make out of that Magazin of varieties that are collected for the Ingenious Florist.

Their Colours are various, from the deepest



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pest dy of any other Flowers to the purest White, entermixt with the brightest Yellow, transcendent Scarlet, grave Purple and many other compounds of these inclining to the Blew and Green.

Their Season of Blowing continues long, the *Præcoces* or *early Tulips*, beginning some of them to blow at the Vernal *Æquinox*, the *Medias* which are the prime, continue all *April* and somtimes the half of *May*, till the end whereof the *Serotines* or late Flowring Tulips continue.

When the principal of them display their Colours in the heat of the day there is not a more Glorious sight in Nature nor is it to be imitated by Art, no Limner nor Painter dares pretend to so great skill: but as all things else that are in excess are soonest apt to decline, so these that precede all others in beauty and lustre, soonest fade, not any of them continuing in its Glory above eight or ten dayes, unless the mildnes of the weather or some artificial shade preserve them, nor are they succeded by any other from the same root.

*Tulips* are not only preserved by taking them up yearly, when the stalks are turning yellow or begin to be dry, but are

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are by that means multiplied and encreased exceedingly. The usual way is to take them up at that convenient time, and spread them thin on some board or floor until they are thorow dry, then cut off the stalks and so let the roots lye in some box or boxes or other convenient places until *September* or *October*, then separate the main Bulbs from the lesser Chives, taking all that are large (and round though small) for Roots that will yield you Flowers the next year, and set them in the places appointed for them, but let the ground be digg'd or otherwise loosened, that the Root may the better dilate it self and encrease, for in a narrow or stiff hole, your Root will remain till the next year as you left it.

When you plant them, stick into the ground by them small sticks marked with the numeral Letters, which you may do *ad infinitum*, and in a small book for that purpose, may you insert the mark and name of the flower.

When you take them up and disperse them into boxes or other receptacles, you may transfer the marks with them.

The ground you plant them in, ought not to be too luxurious, this *Noble Flower*

is



is content with a little Room and poor Soil.

*In the worst mold this Flower better thrives,  
And barren Earth miraculously gives  
More beauty to it, than a fertile ground,  
And when least strong, it is most comely found.*

The vulgar field or hazle Earth with a little mixture of Sand in it is the best, for the richness of the soil causes them to run (as they term it) into dark and plain colours. But if your ground be naturally rich, or that your *Tulips* have grown several years in it, you may abate it and supply it with that which is fit, or lay a bed of sandy Earth about a finger thickness below the *bulb*, when it is in its proper place, that so the fibres may receive a check. *Tulips* may be raised in *January* and *February* on hot beds, but they must be the *præcoces* that are to flower early.

Some prescribe to plant your *Tulips* in a natural earth somewhat impoverish'd with sand, so that a little below the root the earth may be better within reach of the Fibres.

If the ground be digg'd where your *Tu-*  
*lips*



*Tulips* stood the last year, it is equal to a change of mold, the roots rarely falling into the same Earth again where they were before.

Your small Cions or off-sets you may plant in a Bed by themselves, which will furnish you at another time with great variety.

As *Tulips* run or degenerate, take them up and plant them in your outward Groves, your prime colours will multiply fast enough.

*Tulips* that are apt to decline towards a sadder colour, may be taken up a little before they come to flower and laid in the Sun to abate their luxury, which will make them come better the year following.

From such *Tulips* that have their *Tamms*, (that is the seed-like things that stand up about the Seed-Vessel,) and bottoms of dark colours, and their seed Vessel three square, may seeds be obtained when they are thorow ripe in *June* or *July*, that may after a long expectation afford you great variety of Flowers. These seeds may be sown in *September*, and every two years removed until they yield blossoms, but this labour and patience are,



too great for an ingenious, and fit only for a dull *Florist*.

The often removing of the roots of *Tulips* and their off-sets into various ground, gives you a great encrease and great variety of colours without that tedious way of raising them.

2. Of *Fri-*  
*billaries.*

The next of kin to the *Tulip* is the *Fri-*  
*tillary*, whereof there is some variety, as the White, Yellow, Red, dark coloured, some of them checquer'd and thence called the *Checquered Tulip*, but the double is the most rare, their seasons and manner of ordering much like that of the *Tulip*, only the dry Roots ought to be planted about the beginning of *August*.

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## SECT. II.

### *Of Hyacinths and Star Flowers.*

**T**He *Hyacinths* are all bulbous rooted, except the tuberous rooted *Indian Hyacinth*, which we reserve for the conservatory. The sorts of them that are termed *Muscaries* or *Grape flowers* whereof there are many diversities, as Yellow, Ash coloured, Red, White, Blew, and Sky coloured,



coloured, are pretty things, and may for variety sake but not for their beauty be planted.

But there are other varieties of them, as the *fair hair'd branched Jacinth*, the *fair curled hair'd Jacinth*, the *Blew, White, and Blush, starry Hyacinth of Peru*, and the *blew Lilly leaved starry Hyacinth*, that yield fair flowers on large stalks that adorn your Garden and Flowerpots. These flower in *May* and may be removed in *August*, they lose not their fibres and are therefore not to be kept long out of the ground.

There are several sorts of them that lose their fibres and may be kept longer out of the ground, and are to be preferr'd to the other, for that they come early in the year from *February* until *April*, and are very sweet and well coloured.

The principal whereof is the great *Oriental Hyacinth*, called *Zimbul Indi*, or *Par too*, or *Celestial Hyacinth* from its fair blossoms.

Some are more double as well *White* as *Blew*, and therefore are to be esteemed, the vulgar are some *white*, some of a *Cream* colour, others of a *deep blew* and some of a *pale*, but all are very becoming a Garden,



in the Spring of the Year before they are over matched with Flowers of a nobler Hue.

Of Star  
Flowers.

The neereft of kin unto the Hyacinths are the Star-Flowers, whereof some of them are valuabie, as the *Ornithogalum Arabicum* or *Star Flowers of Arabia* which flowers in *May*; the great white *Star of Bethlehem* in *June*; the *Star Flower of Naples* in *April*, and the *Ethiopian* in *August*, these of *Arabia* and *Ethiopia* are tender, and coming out of so hot Countreys will not endure our severe Winters, therefore their Bulbs must be planted in rich warm Earth in Boxes or Pots, and secured in Winter from frosts.

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### SECT. III.

#### Of Daffodills.

THE *Narcissus* is a Flower so well known, that it's needless to spend many words on it but for its great variety, bright Colour, and early flowring, the better kind of them deserve to be planted here and there under your *Groves* and *Avenues*, and other *Shades* where they prosper



prosper very well and waste no Ground, they are hardy Plants and multiply much, some of them are white and sweet scented, blowing late in the Spring, some are single others double and others very double, some bear many Flowers on a Stalk others but one, so that from the end of *March* to the beginning of *May* they furnish you with Flowers for your Pots.

The *Junquils* are of the same kinds and afford some variety, and flower much about the same time with the Daffodills.

The *Leucoium* or Bulbous Violet is reckoned amongst the Daffodils, it is sometimes called the *Snow Drop* because it shewes its Snow white Flowers sometimes in *January* and generally not long after, for which early blowing it is esteemed.

Of Lillies.

SECT. IV.

UNDER this name have been of old many famous Flowers. Some imagine, the most illustrious *Tulip* was once intended by it, when *Salomons* glory was esteemed



med inferiour to one of them, but there is little reason for that Opinion: for in *Pliny's* time neer about the time of our Saviours being upon Earth, the *Lilly* was in great esteem, than which no Flower was more in request in the choicest Gardens, except the *Rose*, which *Salomon* himself admired as well as the *Lilly*, & then the *Tulip* was but a hedge Flower and so remains in the Asian continent as is reported; Neither is there any Flower of that transcendent whiteness (an Emblem of Purity and innocency) as the *Lilly*.

But there are of several Colours and seasons, Flowers that are of that family, As for the Spring the *Crown Imperial*, single and double, Orange coloured, red and yellow, they are but dull Flowers.

*Crown  
Imperiall.*

*Red Lilly.*

Then there are the vulgar *Red Lilly* single and double, whereof only the double is worthy your notice.

*White  
Lilly.*

The *White Lillyes* both single and double are planted in most Gardens for their Colour and the use of their roots, which in *Pliny's* time added much to the reputation of the Plant.

*Marta-  
gon.*

Of *Martagons* there is great diversity, the *Imperial*, the white, white spotted, Red and Red spotted, yellow and yellow spotted



spotted with divers other variations, but none of great value.

SECT. V.

Of Saffron Flowers.

**T**He *Colchicums* or *Meadows Saffron*, so termed, being first taken out of the Meadows, these Flowers are called *Naked Boyes* because they appear naked out of the Earth and are withered and gone before the green leaves appear. *Of the Colchicum.*

Of these *Colchicums* there is some variety besides the plain colour, some striped others Checquered, whereof the *Colchicum Chio* is the most beautiful, but the double is the more splendid graceing your Garden in the Autumn when most other Flowers are faded, all these variegated and double Flowers are to be esteemed for that they come so late in the Year, and make a delicate medly, they put forth their green Leaves early in the Spring following, and when those wither they may be taken up and encreased and replanted about the end of *August* following.

The *Crocus* or *Saffron Flower* so called from *Of the Crocus.*



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from its resembling that Plant in Root, Leaf and Flower, there are great variety of these Flowers, and much variegated or Striped with White, Yellow and Purple, their three Principal Colours.

They bring forth their pleasant but short Blossoms in *February* and *March*, there are some of them *Autumnal* that Flower in *September* and *October* as doth the true Saffron, the Roots are taken up when the Leaves wither and Planted again about a Month or two before their Flowering time, they increase very much and adorn the edges of borders or close under Walls or Pales.

### SECT. VI.

*Of severall other Bulbous rooted Flowers.*

*Of the Moly.*

There are several other Bulbous rooted Flowers, which for variety, are to be entertained, as the *Moly*, whereof there are many different sorts that are in Flower in *May*, *June* and *July* and serve to mix in your Flower Pots and Chimnies, they are planted and increased as other hardy Bulbs.

The



The *Asphodils* are of no great beauty : *Of Asphodills.*  
 but may be planted and increased as other  
 Bulbs, for their variety.

As may the *Phalangium* or *Spider wort*, *Of Spider Wort.*  
 whereof there are the white and the *Blew*,  
 some Flower in *May* and *June*, but the  
*Blew* in *August* and *September*.

*Gladiolus* or *Corn Flagg* there are several *Of Corn Flaggs.*  
 sorts, *Red* and *White*, and serve only  
 for Flower Pots and Chimnies, are hardy  
 and to be Planted and increased as the  
 other Bulbs.

Of the *Satyrions* or *Bee-flowers* or *Gnatt* *Of the Orchis.*  
*Flowers*, there is some diversity, they are  
 taken out of the Fields and Meadows,  
 are very beautiful where they are remote  
 from the place of their extraction, they  
 are very tender and therefore are cautiously  
 to be removed, they are to be taken  
 up Earth and all, unless you can observe  
 where to find them when dry, you must  
 endeavour to Plant them in Ground con-  
 natural to that from whence they came.

The *Doggs Tooth Violet*, so called from *Of dens Caninis.*  
 the likeness of its Bulb to *Doggs Tooth*,  
 there are of them *Purple*, *Red*, *White* and  
*Yellow*, they are in much esteem being  
 brought far, and difficult to be obtained,  
 not increasing in this Country ; they are  
 Planted



## The Art of Gardening.

Planted in good natural (not dunged) soil about the middle of August, and flower in *March*.

Of the Cyclamen.

The *Cyclamen* or *Sowbread* for their curious and odoriferous blossoms are received in the Gardens of the best Florists.

Rapinus.

The *Grecian Cyclamen* from far they bring,  
The *Red* and *White* both flourish in the  
Spring.

Some sorts of them also flower in the Autumn, and one or other of these beauties adorn your Garden from *April* to *October*.

Their Roots do not lose their fibres, and are therefore difficultly remov'd, their time of removing is in *June* or *July*, or before their time of blowing. They are raised of seeds which must be sown, as soon as ripe, in boxes, and then at two years end transplanted into your Garden where they will endure any weather.

SECT.



## S E C T. VII.

*Of the Iris, Bulbous, and Tuberoſe.*

TO conclude this Chapter of *Bulbous* Of the Bulbous Iris. rooted Flowers, I ſhall here inſert the *Iris*, there being of them as well with bulbous as tuberoſe Roots, not that they are inferiour in beauty to any of thoſe preceding, except the *Tulip*, but that I am unwilling to divide them whoſe flowers retain the ſame form, although they differ in their Roots.

Now *Iris* ſprings which from the heavenly bow,  
 Is nam'd, and doth as many colours ſhow:  
 Its Species, and its Tinctures different are,  
 According to the ſeaſons of the Year.

## Rapius.

The *bulbous* afford very great variety, ſome of them (as the *Persian*) flowering in February or March, others in April, May, June, and July. There are ſome of them very fair and beautiful, their Colours are either Blew, Purple, Aſh coloured, Peach coloured, Yellow, White, or Variegated. Their Roots may be taken up as ſoon as the Leaves begin



## The Art of Gardening.

gin to wither, for soon after they are quite withered, the bulbs will issue out more fibres and then it is too late to remove them, otherwise you may keep them dry till *August*.

They delight in a good ground, but not too rich, on a sunny bank, but not too hot to the *South* or *West*, the *Eastern Aspect* is the best.

Of the Tuberosse Iris.

Those *Flower de Lucas* with tuberous Roots are not altogether so various as the bulbous, yet affording to the ingenious Florist many curious Flowers, the best and most excellent whereof is the *Chalcedonian Iris*, vulgarly called the *Toad flag* from its dark marbled flower. This Species of them ought to be carefully ordered, else it will not thrive well, it requires a warm and rich soil to be planted in, and because it is apt to shoot forth its green Leaves before Winter, it expects to be a little defended from the cold. These Bulbs may be taken up when the Leaves begin to be dry, and kept some time in the house, and then replanted in *September* or *October*, which will make them thrive the better.

The other sorts of the *Tuberosse rooted Flower de Lucas*, are much more hardy and  
encrease



increase exceedingly in good ground, and are therefore not so fit for your choicest Garden.

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Of the most choicest Flowers  
Each having pulled over those  
ious Plants and Flowers that will  
the best pains and care to be paid  
of propagation and preservation, I shall now

It is more difficult to be managed, yet  
repote they no more would than they  
sufficiently recompeals with their most  
pleasur Flowers: I he most select where  
of is the highway

CHAP.

SECT. I.  
Of Amaranth.  
The Amaranth, which is a yearly herb  
all over the world, though it is called the  
Ward Flower, for that it looks like  
it opens but when the wind blows, or it  
leaf in the Country where it is found.  
ally produced it may have this property  
It was in great esteem amongst the  
Ancients



## CHAP. IV.

## Of Tuberosse rooted Flowers.

**A**fter having passed over those curious Plants and Flowers, that with the least pains and care to be planted, propagated and preserved, I shall now give you a brief account of such that are a little more difficult to be managed, yet require they no more trouble than they sufficiently recompense with their most pleasant Flowers: The most select whereof is the *Anemone*,

## SECT. I.

Of *Anemonies*.

**T**He *Anemone*, which is a *Grecism* signifying *Wind*, thence it is called the *Wind Flower*, for that it is observed never to open but when the *Wind* blows, or at least in those *Countries* where it is naturally produced it may have that property. It was in great esteem amongst the *Ancients*



cients for the beauty of its flowers mix'd  
in their *Chaplets* and *Garlands*, although  
then there were not a tenth part of that  
variety of them that now the curious have  
collected and propagated.

It is one of the beauties of nature, and  
the most excellent that season can afford,  
bearing such different flowers, that they  
make the cold *March* almost equal in Glo-  
ry to the *Summer*, which is a wonder that  
such soft *Flowers* and *Tyrian* and *Scarlet*  
*dy's* should be produced in so early a sea-  
son, which are usually the effects of a con-  
tinued Calidity.

*What angry Deity did first expose,  
To the rough Tempests and more rigid Snows,  
The soft Anemone whose comely Grace  
A gentler season and a better place  
Deserves: For when with Native purple  
bright,  
It shews its Leaves to the propitious light,  
With different Colours strip'd and curled  
Flames,  
Encompass'd, it our love and wonder claims.  
There is not any other that out-vies,  
This Flower's curl'd leaves or numerous dy's,  
Nor the Sidonian Art could er'e compose,  
So sweet a blush as this by Nature shows.*

Rapinus.

As



## The Art of Gardening.

As of the *Tulips*, so of these, the best way is to please your self in your election from the view of them. The usual descriptions can never sufficiently nor satisfactorily inform you of their real worth.

They are generally of two sorts, broad leav'd *Anemones* and narrow leav'd *Anemones*, those with narrow leaves much resemble Parsley, whence they were anciently called *Rose Parsley* or the *Parsley Rose*.

The Soil wherein they delight must be fat and rich, manured with Sheeps dung and Neats dung with a little mixture of Lime, all thorowly rotted.

About the end of *September* or beginning of *October*, you may plant your *Latifoles* or broad leav'd *Anemones* about three fingers deep, and about a Month after your *Tenuifoles* or narrow leav'd *Anemones*, which yield their Flowers after the other.

But if you design to have them more early you may plant them sooner and with Mats secure them against the cold, and give them all advantages of the *Sun* and warm rains, for the Frosts are very apt to nip their leaves when above ground, and impede their flowering for that year.

If



If you desire *Anemones* to flower late, then keep them out of the ground as long as you can, some will abide out of the ground until *February* or *March*, and plant them in shady places or artificially shade them. Thus may you have *Anemones* after the usual natural time of flowering.

When their green Leaves turn yellow, or about the end of *June* or in *July*, you may take them up and preserve the Roots dry till the season for interring them, for after they have lost their Fibres they are apt to perish by the humidity of the earth. The place you keep them in ought to be cool as well as dry.

It is very injurious to the *Latifoles* to break their Roots, which should only be parted as they are naturally apt to be divided, but the *Tenuifoles* will endure an easie Rupture or Scissure.

If you preserve your *Anemone* Roots in a cool place until the middle of *January*, and then plant them, they will be the more secure from the injuries of bad weather, much wet prejudiceth as well as severe cold.

As your *Anemones* are prejudiced by over much wet, so do they require and deserve a little irrigation in very dry Springs,

K

and



## The Art of Gardening.

and will sufficiently gratifie you, a little shade will also advantage them in the hottest times of the day.

In *May* will these Flowers bear seeds, which gathered and sown in *July* in good sifted earth in beds or boxes, will produce great varieties in the third or fourth year after.

Mix the down that contains the seeds, with some fair dry earth, and rub it together in a wooden vessel, and the seeds will mix with the earth, by which means you may sow them equally, be sure to sow them not too thin.

After you have sown your seeds, sift earth upon them about half a finger in thickness, when they have been come up about a Month sift more earth finely over them about half an inch and cover them at some distance all the next Winter.

The *August* following you may remove them into convenient beds, where they may remain till they bear flowers, at which time you may cull them as you please.

Forget not a gentle irrigation to your young *Anemones* in dry Weather, for it will much forward them, as will a little Artificial shade at Opportune seasons.

The



## The Art of Gardening.

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The *Ranunculus* or *Crowfoot*, being so near in resemblance to the *Anemone*, differ very little from them in their ordering. Of Ranunculus.

They exceed all Flowers whatever in the richness of their colours, nor is there any flower so fine and fair as are the larger sorts of them.

Their times of Flowering, taking up, and Planting, are near about the same time as the *Anemones*, but they agree better with a richer mold than the other.

They are not so apt to multiply their Roots unless their ground be rich and light, therefore it is by the most skilful prescribed, to lay a broad bed of old Thatch or almost rotten Straw, and on that to sift fine rich Earth six or eight inches thick, and therein to plant your *Ranunculus*, wherein they will thrive and encrease.

If you plant them early in the Winter, they must be defended from the sharp Winds and Frosts, but if late there is no necessity of it, they are somewhat more tender than the *Anemone*.

Irrigation in a dry season, much advantages this Flower, as it doth the *Anemone*.

K 2

SECT.



## SECT. II.

## Of Peonyes.

**T**His although a common Flower, yet yields the fairest and most double blossom of any, and very well becomes your Chimney or Flowerpots. But the *White, Purple, and Changeable Peonyes* are acceptable in the Gardens of the best *Flo-risters*, and the single *Peonyes* in the *Phyſick Garden*, for their specificall virtues of their *Roots* against the most dangerous of diseases.

The manner of their planting and ordering is known to most that have any interest in a Garden, only it is necessary to understand, that *September* and *October* are the fittest times for their transplantation.

---

C H A P.



CHAP. V.

*Of divers other Select Flowers.*

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SECT. I.

*Of Gilliflowers.*

**N**Otwithstanding the *Flower-bearing Trees* are complete Ornaments with little trouble, the *Bulbous rooted Flowers* so illustrious that they merit great esteem from the most curious, being less subject to casualties than most others, and the *Tuberosse Roots* yield such incomparable beauties in the Spring; yet must they concede to the *Gilliflower*, the pride of the Summer, that hath its scent as pleasing as its variegations beautiful.

*Lovely Carnations then their Flowers dilate,  
The worth of them is, as their beauty, great.  
Their smell is excellent. — Rapinus.*

Their colours are not many, but infinitely and variously compounded, and being so easily and frequently raised of



seed, do annually produce new mixtures, and those have imposed on them new names, that it is impossible to give you a true account of them, therefore it will be more proper for you to please your own fancy or confide in the integrity of a Gardener, than to trust to the same descriptions you may meet withall, or to the florid Names that are given them on purpose to beget your admiration of such that little deserve it.

Their times of Flowring are generally in *July* and *August*, sometimes the early Buds may yeild you Flowers in *June*, but their latter Buds in *September* and *October*, and by careful defending them in *November*.

The right *Dutch Gilliflowers* rarely produce Seed here, but when they do, you must preserve it from wet till it be ripe, then gather it and lay it by in the Husk until the Spring.

In *May* after the cold Nights are spent is a good time to Sow these Seeds, which ought to be on good Earth in some Shady place where it may have the morning or evening Sun only.

They should be sown thin and the earth sifted over it half a Finger thick.

In *August* or *September* following you may



may remove them into their proper Beds, and the Summer following, they will inform you of their worth by their Flowers. The single and poorer sort reject, and those that blow fair and whole or are well marked preserve.

For the first Winter after Sowing them there is little danger of their being hurt by cold, in that particular they are like the *stock Gilliflowers*, which in their first Winter ate extreme hardy and in the second very tender.

You may Plant your best *Gilliflowers* in Pots filled with Earth for that purpose, that you may give them *Sun* or *Rain* according to the Season of the Year and as they require.

Plant them not under a Wall or other fence that may reflect the heat of the *Sun* upon them, for they delight in an open Air, and not in intemperate heat.

Great rains, especially in the Winter and Spring, prejudice them much: therefore you are to defend them from it equally as from cold. Those Flowers that are Planted in Beds and not in Pots are to be defended from wett and cold as there is occasion by some Cover or shelter to place over them, which must be open at



the top or on one side: the fittest for this occasion are old Beehives with a Door of about a Span Square on the side that may be open off from the weather which you defend them against.

You may increase your Flowers by Laying them in *June July* and *August*, but in *June* or *July* is the best time, the method is thus, First trim your Slip you intend to lay by clipping off the side Leaves and topping the other: then with a sharp Penknife cut a Tongue half through from one of the midle Joynts under the Slip, to the next Joynt towards you, beginning next the Root and cutting upwards, loosen the Earth under it and with a small Hooked Stick force it down that the Tongue or slit may open and the end of the Slip point upwards, cover it with Earth, and water it, which irrigation must be reiterated according as the drought of the season requires it.

If the Slips be so high that they cannot be bent to the Ground with ease, then rake a small earthen Pot with a slit on the side, in which you may dispose of your Slip as you desire.

About a Moneth after, your Layers will have taken Root, then may you take

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take them off with some of the adhering Earth, and plant them in their places prepared for them.

But if any should not have taken root, you may anew lay them and make the cut a little deeper, and so let them remain till the spring, and then you may Plant them out as you see fit.

Plant your Layers not too deep: for thereby many a good Plant hath been spoyled.

A Cave or Pitt made in some place in your Garden would be very convenient to place your Pots of Flowers in: for there no Winds nor severe Frosts can annoy them, the driving rains also cannot much offend them.

The morning *Sun* is the most benign to your *Gilliflowers*, therefore you may defend your most choice from the Afternoon *Sun* by some artificial Skreen, in case you have no place naturally posited for that purpose: this to be done before and in blowing time.

To have *Gilly-flowers* or *Carnations* (as they are vulgarly termed from those ancient English Flowers that were usually of a Flesh Colour) during the most part of the Winter, they may be placed in Pots in some convenient room open to the South, and to be shut at pleasure to defend



send them from the cold unless to give them the benefit of the warm *Sun*, at noon sometimes, or a little southerly *Rain*, into which room may be conveyed some warmth from your ordinary *Fire* or else a *Fire* therein on purpose, I suppose a *Lamp* may be maintained burning at an easy expence in a close room which may be sufficient to defend them from frost, a constant though small heat will effect much, the *Lamp* may also be enlarged as the room or severity of the weather requires, the smoak of the *Lamp* may be conveyed away by a *Funnel* over it for that purpose, thus may many other rarities be preserved over the *Winter* at an easy charge.

The *Earth* about your *Gilly-Flowers* ought to be renewed once in two *Years* at the least : for by that time they have exhausted the better and more appropriated part of the *Earth* or *Soyl*.

Your *Flower Pots* ought to have holes in the bottom to let out the superfluous moisture, and also in case you are willing to water your *Flowers*, you may dip the *Pots* half way into a *Tub* of *Water* prepared, the one after the other, and the *Earth* will attract the *Water* through the holes, which is much better than sprinkling.

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If you have any *Gilliflowers* that are broken, small, or single, you may graff on them other *Gilliflowers* that are more choice, but graff them in the most woody part of the Stalk, the best way is by whip-graffing.

*Pidgeons dung* being the hottest of dungs applied about the roots of *Gilliflowers*, maketh them flower the more early.

To defend your *Gilliflowers* from the injury of cold and frost, such of them that are placed in beds and not moveable, some have prescribed to take two slender Wands or bending Sticks, and fix each end in the ground on each side of the flower, that the sticks may Arch-wise be a cross over the flower.

If your *Gilliflower* or Layer be inclinable to shoot up in the Summer with one single stem, suffer it not to blossom that Year, but nip or cut the stalk off, lest it give you a fair Flower and never thrive after.

*Pinks* though mean Flowers singly of themselves, yet the Common red single sort of them, planted on the edges of your Walks against the sides of your banks, do not only preserve your banks from foundring

*of Pinks.*



dring or moldering down, but when in blossom are a very great Ornament, and most excellently perfume your Garden.

*Sweet Williams.*

*Sweet Williams, Sweet Johns, and London Pride* are pretty fancies, and near of kin to the old English *Gilliflower*.

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SECT. II.

*Of Stock-Gilliflowers and Wall-Flowers.*

*Stock-Gilliflowers.*

**T**He *Leucoium* or *Stock-Gilliflower* is a Flower of much beauty, delicate scent, and some variety, a good Garden cannot be said to be well stored without them, nor a Flowerpot well adorn'd without some of these, they continuing long in blossom, from *April* till the Frost prevents them. They are generally raised of seed; and the first Winter, because they have not yet spent their finer spirits, they are very hardy and endure any weather, but the next Winter they are very tender.

*With*



*With curled Threads and top divided now,  
 Along the Margin of your Borders grow  
 Stock-Gilliflowers, whose blushing leaf may  
 fear,  
 And justly too, the sharpness of the Air.*

The double, whereof some are strip'd and some plain, are very pleasant, but the double yield no seed.

The single have generally four Leaves in a blossom, but if there be five Leaves, the seed thence produced will bring double Flowers.

The white single usually produce double Flowers, as also do those that are strip'd with white.

The yellow double *Stock-Gilliflower* is the most rare of any.

The seeds of those kinds that usually produce double Flowers, being often sown in the same soil, will degenerate into all single and by degrees into all plain colours as I have tryed. *Quere*, if they will do the same if sown in barren earth.

There is another sort of *Double Stocks*, that are not raised from seed, only by Slips and Layers, that is more durable than the seedlings.

Those



Those raised of seed will sometimes abide the second Winter if it be mild, or the Stocks well defended; if you take away the blowing Sprigs the precedent Autumn, it will much further their duration.

They may be laid as other Plants are, and kept secure from violent colds will endure the Winter.

They may be planted out in slips, if you take such that are not spired to blow, and cut them from the Stock, and slit the end in three or four places about half an inch, and peel the rind back as far as the slit and take away the inward wood: then set this slip with the Rind spread every way about two or three fingers deep, water it and shade it until it hath taken Root, by this means may you maintain your stock of *Double Stocks*, without the two years expectation.

The seeds from which you expect to have double Flowers, must be sown at the full of the Moon, or in two or three days after, and when come up four or five inches high, take them up and Plant them out, which prevents their running up to stalk, which labour you may reiterate twice before Winter.

IF



If you remove, water, and shade them every time to preserve them, (it being a Summer work) and do it the first time three days after the full, and twice more before the next change, and again three days after the next full, and once more before the succeeding change (all these removes to be in barren ground) Then at the third Full Moon, eight days after remove them again into rich ground wherein they are to stand. It is said that it will make them bring forth double Flowers.

*Sr. Hugh  
Plat.*

It hath been long observed that the Moon hath great influence over Plants, (over Animals it is very conspicuous) From *Pliny* to this day most *Authors* have been of that opinion. And if it hath any such influence, then surely it is in the doubling of Flowers, for we daily observe that many sorts of double Flowers will degenerate themselves into single, and that most of those double we have (which are of the kinds usually single) are propagated by Art and industry, and why may not the *Lunar* influence contribute much thereto? The *French Poet* was of that opinion, although differing as to the time.

*Till*



## The Art of Gardening.

*Till it be full Moon, from her first increase,  
The Season's good; but if she once decrease,  
Stir not the Earth, Nor let the Husbandman,  
Sow any seed; When Heav'n forbids 'tis vain.*

The same Poet adds.

*Some in preparing of their Seed excell,  
Making their Flowers a larger compass swell,  
Thus narrow Bolls with curled Leaves they  
fill,  
Helping defective Nature by their skill.*

Often removing them doth not only contribute to their worth but duration.

The *Keiri* or *Wall-flowers*, so termed, for that the single kind naturally affect to grow on old Walls and that the double need the assistance of some Wall or other support, are hardy Plants though not altogether secure in the most severe Winters and the better sort of them, that is, the double white, and the *double Red* very pleasant both to the Ey and Smell, they are easily encreased by Slips and Layers.

SECT.

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## SECT. III.

Of *Auricula's*, *Cowslips*, and *Prim-roses*.

**B**eats Ears or *Auricula's*, considering <sup>Of *Auricula's*.</sup> their size are the finest Flowers, the choicest Garden yields, affording a very great variety in form as well as in colour, and are not only beautiful to the Ey but pleasant in scent.

In your election of them, it is better to trust your Ey or confide in an honest Gardener, than in the lame descriptions of them, as before was hinted concerning the choice of *Tulips* and *Gilliflowers*, only that the double is the most rare, and the *Windsor Auricula* the most splendid of all the rest.

They adorn your Garden in *Aprill* and *May*, and some of them again about the end of *August* and untill the frost prevent them.

If you crop off the Buds that offer to blow late in the Autumn, it will cause your *Auricula's* to yeild you the fairer Flowers in the Spring.

They delight in rich Soyl and shady,  
L but



## The Art of Gardening.

but not under the drip of trees.

They must be often removed, once in two Years at least, and the Ground enriched, else they will decay.

The striped and double must be removed oftener or else they will degenerate.

If you set them in Pots ( which is the best way to preserve them ) fill the Pots almost half full with sifted Neats-dung, the rest with a good light Mold enriched with the same Dung.

In the Winter place them in the *Sun*, but in the Summer in the shade.

Defend them from wet in the Winter, but they endure all cold very well.

You may raise them from Seeds by carefully gathering the Seeds and preserving them in their Umbels till about *August* or *September*, when you must sow them in Boxes almost filled with the mixture you made for the Plants, and about a Fingers thick at the top with fine sifted Willow Earth or dryed Cowdung beaten small and mixed with the Earth in which sow your Seeds mixt with wood Ashes, then cover them with the same mixture of Earth sifted thereon, about *Aprill* following they will come up, then may you plant them abroad, and they will yield



yield you Flowers, some the *August* following, other the next succeeding year.

There are sown very pleasant Cowslips *Cowslips* of several shades of red, the *hose in hose*, the *green Cowslip* and the *double Cowslip*, that are worth your planting, they are very hardy, and must be sometimes removed or they are apt to degenerate.

The same is observed of the Primroses, *Primroses*, which yield the like variety of Colours and are intertained for their early welcoming in the Spring.

*On a broad Leaf the Primrose first will blow.*

SECT. IV.

*Of the Lilly of the Vally & Heilebor.*

**T**He *Lilly Conval* although wild in some *Lilly of the Vally* places Northward (as many fine Plants are in one place or other) is yet entertained in many good Gardens for its rich scent almost equalling the *Orange Flower*, the use of this excellent Flower in several preparations and its specifick properties and vertues in some diseases makes it the



more acceptable it is easily propagated from plants, is hardy and delights in the shade.

*Hellebor.*

The Black Hellebor flowereth about Christmas, and for that cause only is respected and not for its beauty, the best sort of White *Hellebor* with red Flowers is a Plant in great repute amongst florists, its Leaves making also a comely shew, and flowers in *Aprill* and *May*.

*Calceolus  
Maria.*

Our *Ladyes slipper* ( an *Helleborine* ) is much valued by most Florists, although wild in many places of the North of England, it is probable by reason of its name occasioned by the likeness its Blossom hath to a pantofle or Slipper.

It yeildeth its Flowers early in the Summer, is a hardy plant in respect of cold but not very apt to be increased.

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SECT. V.

*Of the Hepatica, Gentianella and  
Dittany.*

*Hepatica.*

The *Hepatica* or *Liverwort* is a very pleasant humble Flower, never rising high, yet yielding its variety of pretty Blossoms



Blossoms in *March*, The double and the white are most regarded and do deserve your labor and care, which is not much, to plant and propagate them.

The *Gentianella* is another very low Gentianella. plant yielding in *Aprill* and *May* many blew Flowers of a deep dy, and are therefore regarded by most florists.

*Fraxinella* or *Dittany* is a hardy plant Dittany. annually furnishing you with tall stalks full of not unpleasent Flowers in *June* and *July*, and is raised by Plants or Seeds.

L 3 CHAP.



## CHAP. VI.

*Of Flowers raised only from Seed.*

**T**He great diversity of Flowers we have hitherto had the pleasure to name may be propagated by divers others wayes according to their respective Natures, than by Seed, but there yet remain several Flowers not unworthy your care, that are raised by no other meanes than by Seed as the *Larkes-heels* or *Larkes-spurs*, whereof the *Tipt Rose Lark-spur* is the prime, is a very pretty Flower and well becomes your Walks in *July* and *August* or early if sown before Winter and defended from the most severe Frosts: they are generally sown in *April*, the best will degenerate being often sown in the same Ground.

*Lark-  
spurs.*

*Colom-  
bins.*

The Variety of *Columbines* single and double, plain and stript makes them acceptable in a good Florists Garden, they are Sown in the Spring, the Young Plants indure the Winter, and the next Year they yield their Flowers. The Roots will continue three or four Years, these will also degenerate unless the Seed be changed. There

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There is no Flower can be more glorious *Of Poppies.*  
than the Poppy, were it as good as great,  
and as sweet as well coloured, and as last-  
ing as it is nimble in growth, but their  
ill smell and soon fading, makes them the  
less regarded.

The *Hollyhocks* far exceed the *Poppies*, *Of Holly-*  
for their durableness and are very orna- *hocks.*  
mental, especially the double, whereof  
there are various colours, they are sown  
one year and flower the next, they may  
be removed in *August* or *September*, from  
your seminary into their proper places  
of growth, which should be near some  
shelter from the Winds because of their  
height.

The *Antirrhinum*, *Snap-dragon*, or *Calves* *Of Snap-*  
*snout*, so called from the form of its bluf- *dragons.*  
som, is sown in Gardens because it flowers  
long, and will grow in any place, as on  
Walls &c. And serves for Chimneys and  
Flowerpots, else it is (in a Garden) of no  
great beauty nor smell.

The *Musk Scabious* is one of the species *Of the Sul-*  
of *Scabious* or *blew bottles*, and so named *tans Flori-*  
from its most pleasant scent, and called *er.*  
the *Sultans Flower*, because the *Grand*  
*Siegnior* affected to wear it in his *Tur-*  
*bant*.



This though mean to the Eye, yet is a Plant worthy of place among your choicest Flowers, in kind years and good ground it will come up, being sown in *April* and flowers in *August*: You may for the more certainty raise it in a hot bed, it is also said that if it be sown in *August*, the Plants will endure the Winter, and blow fair the next year.

Of *Amaranthus*.

The *Aramanthus purpureus* is a fine delicate Plant, bearing such curious Tufts of several colours, like unto Silks died in Grain. The Seeds being sown in a hot bed in *March*, and then raised under Glasses in the hottest place of your Garden and often irrigated, will produce those tufts in *August* and *September* following, and do deserve your care as much as any Plant.

Of *Marigolds*.

Of *Marigolds* there are divers sorts besides the common, as the *African Marigold*, a fair large *Yellow Flower*, but of a very naughty smell, and another sort much fairer of the same colour and of little or no savour at all, and for that reason is received into some good Gardens. They are raised of seed sown in *April*, by some in a hot bed, but they will in a seasonable Spring thrive well enough without, and



and yield their beautiful Flowers in *August* and *September* following.

The *Greater Convolvulus* is raised by *of Bind-weed.* seed in the Spring, and more certainly in a hot bed, they twine about sticks of about half a yard high, and yield their bright blew Flowers in *August* and *September*, they blow in the evening, and the next morning the *Sun* withers them, but the blossoms renew every evening till the Frosts prevent them, they are a comely evening Ornament to a Garden.

The *Marvail of Peru*, so termed from its *Of the Marvail of Peru.* wonderful variety of Flowers on the same Root, it is in many things like the *Convolvulus*, and is by some called the Flower of the Night, it is more tender than the other, and is therefore to be raised in a hot bed.

*Lupines* are here sown in Gardens *Of Lupines.* Annually for the sake of their Flowers, but in *Italy* an ordinary pulse sown in the fields for food for their Cattel, and in those hotter Countries they have a property as *Pliny* relates, of turning their Flowers and keeping their course with the *Sun*, whether the Air be cloudy or clear, & that they serve instead of Clocks or Dials for the time of the day, and by some other motions,



tions as Prognosticks for the Husbandmen to judge of the weather. But in these colder parts we propagate them merely for Flowers which are the greater and the lesser blew, the white, and the yellow, which last is regarded the more for its sweetness.

*Of the  
Scarlet  
Bean.*

There is a sort of *Kidney Bean*, that yields a fine *Scarlet* blossom, for which it is esteemed.

*Of the E-  
verlasting  
Pease.*

The *Pease everlasting* is so called, because although it be first raised of seed, yet it Annually produces new branches which furnishes you with many blossoms of a reddish colour, and are not unbecoming a good Garden.

*Of the Sen-  
sible Plant  
and Hum-  
ble Plant.*

The *sensible Plant* so called by reason, that as soon as you touch it, the Leaf shrinks up together, and in a little time dilates it self again: And the *humble Plant* so called because so soon as you touch it, it prostrates it self on the ground, and in short time elevates it self again, are both of them raised in hot beds, and preserved with great care being the most tender *Exoticks* we have.

*Noli me  
tangere.*

Although the two last yield no Flowers, yet deserve a place in your Garden, and here in this Tract, and because they shall  
not



not be alone I will conclude this Chapter with an odd Plant called *Noli me tangere*, because when its pods are gross and not fully ripe, if you offer to take either of them between your fingers it will fly in pieces, and cause the unwary to startle at the sudden snap and surprize, this Plant is annually raised from seeds, and only for fancy propagated.

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CHAP.

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## C H A P. VII.

*Of some more Vulgar Flowers.*

**T**Here are many Flowers that either for scent or shew are raised in the more ordinary Country Gardens, that several Florists have taken a great deal of pains and care exactly to describe, and the manner and Method of propagating them, which here shall only be named, As the *Aconites* or *Wolf-bane*, *Pilewort*, *Crowfoot*, *Batchlelors-Button*, *Marsh-Marigold*, *Hollow-root*, *Monks-hood*, *Cranesbill*, *Bell-flowers*, *Champions*, *Nonsuch* or *Flower of-Bristol*, *Princes-feather* or *Common Amaranthus*, *Dames Violet* or *Queens Gilliflowers*, *Rockets*, *Double-Pellitory*, *Double-Featherfew*, *Double-Camomil*, *Double-Dog-fennil*, *Double Lady-smocks*, *Double Daisies*, *Toad-Flax*, *Fox-gloves*, *Glove-Thistles*, *Scabious*, *Blew-bottles*, *Moth-Mullens*, *Nigella* or *Fennel-Flower*, *Thorny-Apple*, *Balsame Apple*, *Apple of Love*, *Candy Tufts*, *Snails*, *Caterpillers*, *Satten-Flower*, and *Flower of the Sun*: These every *Colona* knoweth how to plant, sow, or propagate.

C H A P.



## CHAP. VIII.

*Of such tender Exotick Trees,  
Flowers and Plants that re-  
quire the Florists care to pre-  
serve them in the Winter.*

**T**O compleat your pleasure, and make your Garden an Object of delight, which is generally placed on rare or unusual subjects aswel as on Vulgar Beauties. You may make it capable of nourishing and preserving such natural Curiosities that cannot endure to be exposed to the rough, fierce, severe and cruel Blastes that Boreas usually emitts into our English Eden. And have therein your *Brumal* aswel as your *Æstival*, *Odoriferous* Flowers and pleasant greens, That nothing may be wanting in your Terrestial Paradise, that Industry and cost may obtain.

SECT.



## SECT. I.

*Of Perennial greens and such Plants  
that cannot endure cold.*

**A**S in the former part of this Treatise we began at the more hardy *Winter greens*, So here it will be not unproper to observe the same order. And as there we named the famous *Cypress* first, so here shall we begin with the most beloved odoriferous *Myrtle*, so highly esteem'd by the Romans the great admirers of Rarities, before the foundation of *Rome*: That the sweet perfume thereof when burn'd, became an atonement for the offence the Romans had committed in ravishing the *Sabine Virgins*. And its sacred branches (being first consecrated I suppose) were sufficient to purify them from so venial a sin: In memory of which offence and satisfaction, on that very place the zealous Romans then erected a Sacred Temple dedicated to *Venus Cloacina*, the Goddess of such pleasures and Patroness of the innocent *Myrtle*: *Myrtle* trees were also by the same Romans planted and propagated as Omens or Prognosticks of good or evil

*Of the  
Myrtle.*

*Cloacina,*



evil to their State and Government. So superstitious were they ever esteemed.

In *Pliny's* time was there an old Temple and Altar that had been consecrated to *Venus Myrtea*.

*Cato* mentioned the Conjugal Myrtle which *Pliny* supposes to have proceeded from that which was dedicated to *Venus Gloacina*, and used it seems in their Marriages.

*Pliny* attributes a strange effect to it, That if a man hath a great Journey to go on foot, and carry in his hand a Stick or Rod of the *Myrtle-tree*, he should not be weary, nor think his way long and tedious: Its probable its operations are more vigorous in such places where it naturally delights, than here where a kind of force is put upon it. But we here in *England* can second this Vertue in that of an *Elder-stick*, which if a young Horseman carry in his pocket, although he ride hard and far, yet shall he not be galled; as some affirm.

Of *Myrtles* here known in *England*, there is the broad leaf'd *Myrtle* and the narrow leaf'd *Myrtle*, both very fine sweet smelling Shrubs; but the most elegant is that which in the Autumn affords such  
plenty



plenty of double white blossoms, being a Plant very worthy the care of the most ingenious Florist, and are not so great a vexation as delight, whatever Mr. *Rea's* opinion is, *Rapinus* seems to be of another,

*Despise not humbler Plants, for they no less;  
Then Trees; your Gardens beauty do increase.  
With what content we look on Myrtle  
Groves!*

They are not so tender but an easie defence will make them endure hard Winters. I have known many Trees planted on borders endure several Winters, that have not been over severe; and never in the greatest extremity, required but a tilt from the wind and snow.

The Plants produced from Layers are the most hardy, those from seeds the most tender, the same it is with most odoriferous herbs as *Thyme, Marjerom, Hyfop, &c.*

If planted in Pots or Boxes, they are easily removed into your more open *Green houses, or Vaults.*

*Of the Indian Fas-  
semine,  
and Spar-  
nish Fassaz-  
mine.*

There is a sort of *Myrtle* with a large leaf called *Spanish Myrtle*, that will endure all weather without shelter.

There are the *Indian yellow* and the *Spanish*

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Flower  
ers, and  
Green  
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Cytisus  
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red.



Spanish white *Jasmines* that are very curious Shrubs and yield most fragrant Flowers equaling almost the Orange Flowers, and deserve a place in your more open Green house or Vault, where a mean defence will preserve them from the too great severity of the winter.

*Cytisus Maranthe lunatus*, is a Plant of *Cytisus Lunatus*. sown as ordinarily in the *Asian* territories, as common Pulse are here, and is both branch and Seed, the best food for all their Cattel, and is a great encreaser of Milk in Beasts as well as in Women, but here with us preserved as a rarity in Pots or Cases and so to be disposed in great colds into the Conservatory.

The *Oleander* or *Rose-bay* is a Plant bearing some of them blush and some white Flowers, and will prosper if secured from the most violent cold as the other before mentioned Plants are. *Oleander.*

The same may be said of *Laurus Indica*, *Indian Bay.* although as yet a great stranger.

The *Maracoc*, usually termed the Passion Flower from the Thorns and pointed leaves it hath, representing the Thorns wherewith our Saviour was Crowned and Nails wherewith he was nailed to the Cross, as the Authors of the name imagined. *Maracoc*

M

This



This Plant encreaseth much by Cions naturally growing from it, and if the root be preserved from the extremity of the Frost it will yeild many beautiful Flowers yearly in *August*.

Snails as naturally affect this Plant, as they do the fruit of the Nectarine Tree, and as Cats do the *Marum Syriacum*, and therefore care must be taken to defend them.

*Star  
Flower of  
Arabia  
and Of  
Ethiopi-  
ca.*

*Ornithogalon* or the *Star Flower* of *Arabia*, which yieldeth a beautiful Flower in *May*, as that of *Æthiopia* in *August*, must be preserved as the other Plants.

*Indian  
Reed and  
Indian  
Fig.*

The *Indian flowering Reed*, if often watered and secured in the *Winter*, yields store of Flowers, but the *Indian Fig* is a very low Plant growing one leaf on another, and is therefore called *leaf upon leaf*, and only preserved in the *Winter* for the rarity of it, no Plant in Nature being like it.

*Cistus  
Mas.*

The *Male Cistus* is a Plant of no great esteem yet preserved for the rarity thereof as is the *Cistus Ledon*.

*Jucca.*

The *Indian Jucca* not only affordeth us its sharp pointed Flag like leaves but sometimes its beautiful Flower and is preserved only for the rarity thereof, and usually



usually prescribed to be defended from the Winter cold, but by some affirmed to endure the most severe Weather.

*Periploca* or *Virginian Silk*, of little value is much of the same nature, for the defence of those Plants which only suffer in extreme colds, a slight Shelter may serve either as they stand abroad in their proper Places, or by removing them into some *Garden House*, not so close as the *Conservatory* for the more tender Plants ought to be.

Or a Vault or Cave may be made a little within the surface of the Earth about the edges whereof may be disposed as you think fit your several Pots or Boxes.

Or you may sink a hole for each single Pot or Box, so that the Plant may be a little below the surface of the ground, over which an ordinary Shelter from the wet may serve, or if you sink it deeper, it will defend your Plant the better.

For as the Earth in the Summer preserves Plants or what else you place therein cool from the scorching Rayes of the *Sun*, so doth it from the extremity of cold in the Winter; Neither hath the Wind or Morning air in that season so



great an advantage, over a Plant thus posited, as it hath if it be on a level.

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SECT. II.

*Of such Plants that least indure the cold.*

**O**ther plants there are whose descent have been from a more hot Climate, and are of themselves of a more tender nature, than the other before mentioned.

*Of the  
Orange.*

Whereof the *Orange-tree* is the most Principal, and deservedly in great esteem not only for its beautiful ( though acid ) fruit, but for its most fragrant Flowers, of which is made so rich an Essence, and whose distilled water is of so transcendent Vertues, that they will sufficiently recompence your diligence and care in nourishing and preserving the Tree.

These Trees preserved in strong Boxes may be with ease removed into your Conservatory, and thence in the Summer plac'd in several places of your Garden.

No



No Tree your Gardens, or your Fountains  
more

Adorns, then what th' Atlantic Apples bore.  
A deathless beauty Crowns its shining leaves,  
And to dark Groves its Flower lustre gives.  
Besides the splendor of its golden fruit.  
Of which the boughs are never destitute.

Rapinus.

They are raised of the Kernels sown in  
March in cases of rich Earth; these fruits  
were unknown in former Ages to the Eu-  
ropeans, and the Trees have not been long  
introduc'd; and not many years hath  
that more noble kind the *China Orange*  
been propagated in *Portugal* and *Spain*,  
which annually furnish us with those plea-  
sant fruits, yet there in a few years have  
they degenerated, as to size and tast: Its  
probable the Kernels of those may pro-  
sper better with us than the *African, China*  
being not so hot.

The fruit with us, although it ripeneth  
not so well as in *Spain*, yet in such years  
that our old stock of imported fruit is de-  
cay'd, they serve for many Physical uses.  
But the flowers here are much more valu-  
able than the fruit.

M 3

There-



Therefore if a Wall be built near the house, and well defended behind and on either side from cold winds, and several leaves or doors of close board made to shut before your wall, and the top well secured from rain, against this wall may you plant your Orange trees and prune them against it without ever removing them; only in the Spring season, you may open your leaves or doors by degrees, and at length open it quite before and on the top, only leaving the main staves until the next Winter. In the building of this wall may you contrive concavities through which the heat of Fire made in several places for that purpose may pass behind your Trees, or you may have other Fires in this Shed as in your Greenhouse.

The most proper Earth wherein to plant your *Orange-trees*, is that which is taken out of a Melon or Cucumber-bed, and equally mix'd or tempered with a fine loamy Earth, and so to remain the whole Winter, then sifted into the cases.

Instead of the fat earth of a Melon or Cucumber-bed, you may use Neats-dung and order it as the Melon earth.

Before

Before  
Cases,  
of Orange  
which  
in a shed  
will be the  
Place  
for any  
other give  
As the  
by degrees  
at noon  
for a week  
The like  
you set  
to shut  
of wear  
As the  
large year  
Earth a  
Cases.  
I have  
usually  
Orange  
so he  
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fully.  
You  
blow,



Before you put your Earth into your Cases, lay on the bottom a good quantity of Osier or Withy sticks, or such like, which will preserve it light; if they are in a small quantity mixed throughout, it will be the better.

Place them in your Conservatory before any Frosts happen, and in hard weather give them some warmth.

As the Spring appears so acquaint them by degrees with the Air, opening the doors at noon first and shutting them again, then for a whole day if the weather permit. The like discretion you must use when you set them into your Conservatory, not to shut them up too close until extremity of weather require it.

As the Trees grow large so you may enlarge your Cases, and take out the Trees, Earth and all, and place them in your new Cases.

I have heard of a Gentleman that annually makes a Shed or House over his Orange-tree, and as the Tree encreaseth so he enlargeth his House, and that his Tree is very large, and beareth plentifully.

You must gather the Flowers as they blow, leaving but few to knit into fruit,



## The Art of Gardening.

else will your Tree spend it self in fruit.

You must take care to brush the Spiders webs off this Tree very gently, for they delight to work on it, the fragrant blossoms attracting many Flies.

The Kernels may be planted in hot beds, and will bring fair Plants the sooner.

Easie *Stoves* or *heats* will serve until the Frosts be very hard, then must you kindle greater Fires, but let not any Fire come too neer your Trees, nor any Smoke annoy them. But if your conservatory Fire be very close, with Mats that Water will not freeze in it, then there needs not any fire.

You must water them gently when you find they require it, which may be discerned by the leaf which will soon complain, but give them rather too little then too much, and wet not the leaves.

You ought to renew and alter the Earth as tenderly as you can by abating the upper part of it, and stirring it up with a Fork taking heed to the Roots, and applying the prepared Earth in the room of it, which may be done in *May* and *September*.

If you kindle some Charcoal and when they have done smoaking put them in a hole

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hole sunk a little into the floor about the middle of it, it is the best stove and least annoyes your Plants.

The Water wherewith you irrigate your *Orenge Trees*, ought to be prepared as well as the Earth, you may therefore mix it with Sheeps dung or Neats dung, and let it stand two or three days in the *Air* or *Sun* and it will be very fit for your purpose.

*Lemmons* may be ordered after the same manner as the *Orenge*s, but they are not capable of giving you so large a requital. *Lemmons.*

*Amomum Plinii*, So called being a Plant by him esteemed, and by him reported to be naturally growing in divers parts of *Asia*, and yielding a rich and costly Berry, used in perfumes: this Plant is now nursed up in our Climat by carefull preserving it in the Winter in the close conservatory where it requires the same care as doth the *Orenge-Tree*. *Amomum Plinii.*

*Geranium nocte Olens* which smelleth pleasantly in the night only, is a tender Plant and deserves a place in your Conservatory. *Geranium.*

The *Tuberoſe Hyacinth*, famous for its aspiring head and most fragrant Flowers, seeming



seeming to contend with the *Orenge Tree*, is a very tender Plant impatient of cold or wet.

The root must be taken up in *April*, carefully parted without breaking the greater fibres, and then replanted, the bottom of the Pot filled with prepared Earth, but the roots covered only with natural fresh Earth, and then the Pot filled with Earth prepared, as before; place this Pot in a hot Bed, and there let it stand without watering until the Root spring, then set the Pot under a South-wall, in dry weather water it easily. In *August* it will yield its Rich Flowers, and in *September* it must be removed into the Conservatory.

In *September* you may take up the bulbs of this Plant and preserve them in dry Sand, or when the Roots are dry lay them up in papers in a warm closet.

*Blew Borage leaved Auricula.*

The *Blew Borage-leav'd Auricula*, being leaved like *Borage*, yieldeth fine blew flowers; it is a rare and a tender Plant; and set in a Pot may be preserved in your Conservatory, from the extremity of the Winter.

*Cortusa Matiboli.*

*Bears-ears Sanicle* is almost of the form of an *Auricula*, is a Plant usually raised of seed, planted in Pots and preserved as other tender Plants. *Mastich*



*Mastich Thyme* is a Plant of a curious *Marum.* scent, and vulgarly known, apt to be increased by slips, and as apt to be destroyed by cold, and is worthy of your care to preserve it.

*Assyrian Mastich* is of the same nature, *Marum Syriacum.* but so absolute a bait for Cats that they will come far and near to it, to devour it, unless you preserve it with the sharpest Thorns or Furze. These and Mastichs are best preserved by placing them within the Earth, and covering them.

Several others there are, that are not only tender but rare and acceptable Plants to the ingenious and careful Florist, wherewith, according to the magnitude or capacity of his *Green house*, or measure of his time he can spare about them, he may easily furnish himself with all from the great Conserver of these Rarities, Mr. *George Ricketts* of *Hogsden*.



## LIB. III.

Of Esculents or Plants for  
Food.

**A**S a Garden is the greatest Ornament to your Seat without doors for the variety of pleasures it yields, so is it of as great advantage and satisfaction for the variety it affords you of curious Aliments and Condiments, at your Table; not any dish of Meat can be compleatly served up, without a share of some *Hortulan* or other Vegetable.

The meanest Cottager may well afford that little ground ( if he hath any ) that is contiguous to his Tenement, for the propagating of some or other of these *Esculents* we are now to treat of: It is not the heat or colours, fatness or barrenness of his Land can excuse him here, for there is no Land but is apt to bring you some fruit or other of your labour, and where-  
in



in some of these Plants do delight: If it be a dry hot sandy Land, *Carrots* will prosper in it; if cold and dry, then *Turnips*, if hot and moist, then *Pease*, *Beans* and most sorts of Tillage; if cold and moist, then *Cabbages*, *Beans*, &c. will not disdain it; thus may some sort of Tillage or other be adapted to every sort of Land.

The accidental or casual thriving of Plants or Seeds in the various sorts of Lands hath, within the memory of man, very much encouraged our Rusticks to a farther improvement of this part of Husbandry, not only because the products of their labours have often found a good Market for curious Pallats: But because they have been frugal meats for their own Families, and sometimes necessity also (which often makes men ingenious) hath put them upon the propagation of these Esculents, which have served as Meat, Bread and Drink in such years that Corn hath been scarce. For in a great part of the World, the Inhabitants never were acquainted with the making of Bread of Corn, but sometimes of the Roots of some Plants that grew amongst them, which they eat with their hunted Venison, or with their Milk, as in *Ireland* they eat *Potatoes*;



tatoes; thus here in *England* Carrots, Turnips, Cabages, and many other Roots and Plants have been both Bread and Meat for the Husbandman and his Family, who have in many places subsisted long on this Food; and these Esculents being of themselves of a fine nutrimental and moist nature, have not required so much Drink as other Meats more dry and salt usually do; these kind of Diets are at a far less charge and trouble to the *Pater-familie* than those of *Flesh, Bread, Cheese, &c.*

And if the case were truly stated, and the times compared, the improvement and propagation of these Esculents hath been one principal cause of the deadness of the Market for Corn, which probably may be objected against this design.

To answer which you may consider, that cheap food is one of the greatest encouragements for the peopling of a Country, for this very reason many thousands have deserted *England*, to settle in *Ireland* and elsewhere, to our great detriment and their great advantage.

If any Farmer complain of the effects of these improvements, then let him make use of the same, and set out yearly a parcel of his Farm, for the raising of Garden-tillage,



tillage, wherewith to feed his own Family and furnish the Market.

Then will it be objected, that in case every man should so improve a part of his Ville, the prices of the tillage would be low, and it would not quit the cost.

To answer which, It would then reduce the advantage of the one and the other part of Husbandry to a Ballance, from which no ill effect as to the general can proceed.

It may be further objected, that seeing less Land will, by these wayes of improvement, feed a certain number of people than the old way of Husbandry can do, that much Land will therefore lie wast.

In answer whereunto, If you can raise as much Food on an acre of Land as formerly you did on four acres, what disadvantage to you is it in case the three remaining acres lye wast; but you may convert them to pasture if you please.

In case you object, that Garden-tillage requires more hands to *dig, trench, set, sow, plant, weed* and *gather in*, than the former way of sowing of Corn.

Answer, This is one of the advantages it will necessarily produce, that a man and his Family may live and keep themselves



selves daily employed in this method of Husbandry on a few acres of Land to as equal an advantage, as by the more ancient way they could on a great Farm: For it were much better for the publick, that the great Farms were subdivided into lesser, that the people might have Habitations and Employments here at home to keep them from stragling abroad, than to have so many great Farms lie so neglected, to the great prejudice of the Commonweal: *Palladius* was of the same opinion who said, *Fœcundior est culta Exiguitas, quam magnitudo neglecta.*

But if you will say, that by multiplying Garden tillage after this manner, it will make Corn-land so low rented and Corn thereby to become cheap, to the great detriment to the Kingdom in general. Then consider, that if a part of our Land will yield us food sufficient and uphold the yearly value of our Villes as by this Method it will certainly doe, then may there be Corn enough raised in *England* not only to ballance but under-sell our Forreign Neighbours to our great advantage and their detriment (which is almost equal to it) For the more of our own  
growths



growths we can vend the more is Navigation encouraged and the greater returns are made. It is when the growths or Manufactures of other Countries are imported hither, and in lieu of them ready money returned, that impoverishes us and enricheth them. Therefore when the contrary is done, it must have a contrary effect.

The private advantages of the propagating *Hortulans* or esculent Plants, as they are oftentimes represented are prodigious and incredible, therefore a modest computation is the best encouragement; For any rational man will more easily believe that an acre of *Turnips*, *Carrots*, *Onions*, or the like is four or five times more profitable to the Husbandman than an acre of *Wheat* or *Barley*, or such like; than if it should be said to be ten or twenty times more profitable.

But for your *Garden* ( where you are confined to a less room than a farm, ) which is divided into several squares or quarters and each square or quarter well manured and prepared for its proper tillage, there may you expect a far greater encrease, especially of such Plants that annually produce their fruit without

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the



the renewing of the Gardeners cost and pains, unless only to cherish and preserve them, with the planting and propagating of which sort of Esculents we will begin.

CHAP.

Of the  
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## CHAP. I.

Of such Plants that are perenni-  
al or continue over the Year.

**T**HE best and most Select of such *of Aspa-*  
Esculent Plants that continue from *ragus.*  
Year to Year, without new plant-  
ing or Sowing is the *Asparagus*, which de-  
serves to be first named because of its ear-  
ly and plentiful encrease it yields, the deli-  
cacy of its meat, and the continuance of  
it before any other gains a repute above  
it.

So long since as in *Pliny's* time it was the  
most esteem'd of any in the *Garden*, al-  
though in those parts they sometime grew  
wild, yet in the Gardens were they so  
cultivated that three of their Buds or  
Heads would weigh a pound. And were  
(though common) the *Romans* dainty  
dish; And *Cato* many Years before *Pliny*  
wrot very much concerning their propa-  
gation out of the abundant regard he had  
for them, being then but newly reduced  
to the Gardeners care.

They grow naturally wild or at least



## The Art of Gardening.

some bastard kind of them in the Meadows near *Bristol*; but our more fair and large, usually called *Dutch Asparagus*, are propagated from seed; the ground wherein you sow them must be rich and well tempered and prepared, then may you with your finger prick in the berries at what distance you please: the best time is in *January* or *February*.

Then after two years, in *March* following will they be fit to remove into the bed wherein they are to remain.

But the best and most expeditious way is to buy your Plants of two or three years growth of the Gardeners, who raise them on purpose for sale at an easie price.

The Bed you plant them in ought to be three or four foot wide, and about two foot in depth, the most part within the surface of the Earth, and about six inches above, for it will settle. When you have made clean and square your Foss, you may fill it with good rotten dung of any sort with a little mixture of earth, the best soyl is that which the Butchers make, wherein there are Hoofs, Rams-horns, or any such cornuous substance, wherein they exceedingly delight; its probable  
woollen



woollen rags or old leather may do as well; with these mixtures may you fill your Bed about eighteen inches, then cover the same with good old rich Mold that came out of some Cucumber or Melon bed for about six inches more, in the midst whereof plant your sets, at sixteen or eighteen inches distance in a *Quincuncial* order, that they may lie covered two or three inches; plant them with their roots spreading as much as you can.

You may make as many of these beds and as long as you please, leaving a two foot interval between them, for the conveniencie of dressing and cutting them, for broad beds are inconvenient, no tillage suffering more by treading than these.

About three Years after they are planted may you cut of them: the sooner you cut of them the more will the head of the Root knit, and the more in number will it Yearly yield you, and the later you cut the more will the Root and head grow in bigness, and the fairer buds will you have. Some will thus grow to be very large.

When *Green Pease* furnish your Table,

N 3

then



## The Art of Gardening.

then may you let your *Asparagus* run to seed, that they may gather strength for the succeeding year.

In the cutting the Beds remove some of the earth with your knife to avoid injuring the next Successor.

In *November* or the beginning of *December* cut the seedy stalks close to the ground and cover the Beds with new warm Horse dung, which will prevent them from extreme Frosts, for no other will injure them.

In the beginning of *March* uncover them if the weather be open, and either before you cover them or at this time weed them clean, and after weeding lay on your Bed the bottom of a *Melon* or *Cucumber-bed*, or such like rich Earth, about two fingers thick to supply the usual decay they are subject unto.

You may have early *Asparagus* if you take the old Roots with the Earth about them, and place them on a hot Bed, thus will they bud in *January*.

By the precedent Rules will a Garden of *Asparagus* furnish you with buds near three months of the year, without the force of a hot Bed, and that in such plenty that no other Tillage whatever that is  
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perennial (the *Artichoke* only excepted) affords the like. These whilest less common were received as dainties at the best furnish'd Tables; and now, though plentiful; are they an usual dish at most Gentlemen's Tables, and by degrees may come to be a more vulgar diet; for after their first planting, the labour about them is but small, and the cost less, the trouble of cutting them not so great as gathering of Pease, nor dressing them so tedious, yet a meat equalling the best of Tillage, and the most salubrious of any.

About the time the *Asparagus* leaves <sup>of *Artichokes*.</sup> you, the *Artichoke* comes in request, being one of the best of a Gardens products, and anciently derived from *Thistles*, as *Pliny* tells us, and in his time and long before had been so improved, that they became a most delicate meat, and were served up to the Tables of the most prodigal *Romans*. If then they were so excellent, surely by a continued improvement to this day, must they needs now be much better.

There are several kinds of them, as the more ordinary which run up tall, and bear small heads which are very hardy; the other sorts are more large, and grow



## The Art of Gardening.

low, and much to be preferred, but are more tender and unable to endure the severity of the Winter.

They are increased by Slips, taken from the sides of the old Roots at the time of dressing them in the Spring, with as much root to them as you can.

*Artichoaks*, delight in a rich and deep soyl and not very dry, which soyl must be trenched about two foot deep and mixt very well with good old rotten dung, and so laid up into beds of what form you think best; for you may go between them as you please, the *Artichoak* roots very deep, and if it likes its ground will grow very large, and continue many Years.

You may plant them four foot apart at least, that they may have room to Spread their leaves, and at their First planting be sure to water them in dry weather until you observe them to grow.

The best times for the planting them is in the beginning of *April*, and you may sow any Sallet Herbs between them that may be gathered and disposed of before the *Artichoaks* spread too far, These Plants will some of them yield heads in the Autumn following.

If you thoroughly water your *Artichoaks* with



with Water enriched with Sheeps dung, it will make them very large: watering of them in dry Land or in dry Years much advantageth them, for in moist Years they are much more plentiful and large than in dry Years, and the better it will be in case the water be fat.

Water drawn from Ashes or improved by any fixed Salt is very good for the same purpose. For I have known that *Artichocks* have been the larger for Turf-ashes casually with dung laid at their Roots to preserve them in Winter.

In *November*, or the beginning of *December*, it will be a good time to secure your *Artichocks* from the Frost, by raising the Earth about them and encompassing them with long dung or any hawmy substance, but not to cover them, lest it perish them, for it's the Frost that perisheth the Roots; and the wet and want of air that perish the Leaves.

Some prescribe to whelm over them an earthen Pot Bee-hive or such like, open at the top to give them Air which may serve if the Winter be not too sharp.

About the middle of *March*, you may gently move the dung from them, and at the end, the Earth that was cast up, and  
the



the first week in *April*, may you dress them, by digging deeply about each root and slipping of every set as low as possibly you can, leaving two or three of the greatest and most distant the one from the other for Bearers, then fill them up round with good old dung or rich soyl mixt with the earth and they will afford you fair heads.

If you would have latter *Artichoaks*, you must cut the first crops betimes, or expect them from your new set Plants.

A small spot of ground thus planted and ordered will furnish your Table with many of these Fruits in a Year and are equal to the best of Vegetables for food, charge and trouble are very little in comparison of the advantage.

They will continue six, eight, or ten Years, according to the goodness of the Land they grow in, and then must be renewed when you perceive them to degenerate which they surely do if they like not their ground.

The young buds of *Artichoaks*, may be eaten raw with Pepper and Salt, as usually *Melons*, *Figs*, &c. are eaten.

The *Chard* of the *Artichoaks* which is the stalk of a young *Artichoak* an arising out of old



old root and preserved from the Air and from heading by winding of it about with a Straw, to blanch it and make it tender, is by the French esteem'd an excellent dish.

The Roots, Stalks and leaves of them whilst young and tender are delicate meat, especially if so preserved and blanched as is by some affirmed; and it is not improbable, for I have often found that by covering a winter bud to preserve it from Frost the Snails have greedily devour'd it.

Those esculent Herbs that are perennial because they are not so much used for Food as for condiment I shall discourse of in another Chapter.

CHAP.



## CHAP. II.

## Of Esculent Roots.

Of Turnips.

**T** Here are several Roots that have afforded us great plenty of substantial, pleasant and wholesom Food, whereof the *Turnip* is esteem'd the best, there are several sorts of them, the round, long, and yellow, of which the round is the most common, though the others are very good; the long are usually called *Navees*, They have been an ancient Food throughout *Europe* Southward and have been very much improved in *England* of late Years.

They will grow on the meanest land in its first tilth, and much the more if the Season prove moist or dripping. The season of sowing them is about *Midsommer*, that they may be ready to improve upon the *Autumnal Rains*, which maketh them much sweeter than the *Vernal*.

They are sickle at their first coming up in a too dry season and if (being sown early) they happen to fail, you may at the end of *July* or beginning of *August* new sow your ground. You

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You may sow them in *April*, to have Turnips in the Summer, but Sown after for the Winter is most Seasonable.

In the Winter before the great Frosts prevent, you may take them up, and cutting of the greens, dispose of them in some cool place on heaps and they will keep long, and much better and longer in case they be laid in Sand and covered with it.

They will root the better and larger if the Leaves spread and grow flat, than if they stand upright or grow upwards, which to prevent, sow them not too thick or if they come up too thick in any place, reduce them to a convenient number or distance of about ten or twelve inches and supply the defects by transplantation. And you will find that the increase of your Root shall ballance the lessening your number, for the neer standing of any vegetables cause them to aspire upwards, as is evident in most spreading Trees planted in coples.

But if the over fatness of your ground which is a great fault for *Turneps*, or over much wet cause them to run out in leaf more than in root then treading down the Leaves will make them root the better.

The



## The Art of Gardening.

The Greens or Leaves of *Turnips* that have been sown late and lived over the Winter, are usually boyled and eaten with Salt meats and prove an excellent condiment.

Thus ordered will a small spot of ground yield you a second Crop (after *Pease*, *Beans*, or *Sallet-Herbs*) of excellent food, which the most curious palats disdain not, and much more in value than any of *Corn* or grain whatever.

Of Car-  
rots.

*Carrots*, have been Anciently used for meat but not so much as *Turnips* have been, yet are they the sweeter meat, and more easily eaten without bread, or rather better serve to supply that defect, than *Turnips*, for *Turnips* are much the better Condiment, but *Carrots* the pleasanter Food.

There are two sorts of them, the yellow and the Orange or more red: the last of which is by much the better.

They delight in light ground with a mixture of Sand; if it be rich or heavy you must take the more pains in digging it to make it as light as you can.

If you dung your Land the same year you sow your *Carrots*, you must be sure to bury your dung so low that the roots may not extend to it, for as soon



as they touch the dung they grow forked.

The season for sowing them is in *February* or *March* in dry weather.

To make them large you must do with them as with the *Turnips*, only they will admit of a greater number on the same quantity of ground than the other.

If sown between *Beans* set in wide rows, after the *Beans* are taken up your *Carrots* will thrive, and you may have a second Crop, but these not so fair nor early as those that are sown in Beds by themselves.

To improve this and other Roots, gather your Seeds from the highest aspiring Branches, and sow them as before is directed; then when you take them up select the fairest and preserve for seed the next year, then plant them and take the Seeds from the highest tops as before.

*Carrots* are preserved as *Turnips*, over the Winter, but if you will have *Carrots* early in the Spring, you must sow them in *August*, and preserve them from the Frost in the Winter by covering them with Pease haum.

Next unto *Carrots* are *Parsnips* in great *Parsnips.*  
use for a delicate sweet food, and were so  
esteem'd



esteem'd in *Pliny's* time, and by him reputed to be excitatives unto *Venus*; an Argument that they are very nutrimental.

They delight in a richer Soil than the *Carrots*, but as light and well stird as may be, else in every respect to be ordered as the *Carrots*; but are not to stand so thick.

Of Skirrets.

The *Skirret* or *Skirwort* root was also a very ancient dish amongst the *Romans* and is the sweetest, whitest and most pleasant of Roots, and by Physicians esteemed a great restorative and good for weak *Stomachs*, and an effectual Friend to *Dame Venus*.

*Skirrets* delight in a very rich, light, and not too dry Soil, for in moist Summers they are fairest.

They are increased by Plants divided in *February*, or *March* and set in single buds at six or eight inches distance and in a dripping Year, or otherwise if they be watered in dry Seasons, you will have a very plentiful encrease the succeeding Winter; you may also plant them here and there on the edges of your other Beds.

They endure the Winter very well, and you may take them up at any time before the Spring be too forward, if the Frosts

prevent



prevent you not; when you take the Roots, cover the tops in Earth for your farther encrease.

The Root *Scorsonera* is as yet not com-<sup>Of Scorsonera.</sup> mon, but very much commended by some to be good meat, after the outer rind is scraped off, and the root steep'd a while in water to take away that little bitterness it hath.

They are said to lie in the ground all the Winter, and from year to year without any prejudice, but will still grow bigger and bigger, although they yearly run up to seed.

They are encreased either by Seed, or by Slips as the *Skirrets*, or by cutting the Roots in several pieces, which planted in good ground at about eight or nine inches distance in *March*, will yield a considerable increase, or may be planted at any other time, they being hardy.

They are esteem'd to be very cordial and excellent in Feavers.

*Potato's* are much used in *Ireland* and in <sup>Of Potatoes.</sup> *America* as Bread, and are of themselves also an usual food.

They grow in any good mellow ground, and are encreased by cutting the Roots in pieces and planting them as the *Scorsonera*. O These



Of Jeru-  
salem  
Arti-  
choaks.

These and the *Jerusalem Artichoaks*, which are by much the meaner food although somewhat like them, may be propagated with advantage to poor people, a little ground yielding a very great quantity, as the many small Welsh territories adjoining to the Highways in these parts, planted with them plainly demonstrate.

Of Beets.

The *Red Beet* or *Roman Parsnip*, and the *White Beet* were amongst the ancient *Romans* and by several are now used aswel in root as in leaf at the Table.

*Beets* delight in a rich and deep Soil as doth the *Parsnip*, and must be sown about the same time, or rather set at about fifteen inch asunder, because their leaves are large.

Or you may sow them in a Bed promiscuously, and when they are grown a little then transplant them, and they will yield fairer roots, the other being apt to be forked.

There are *Chards* of *Beets* aswel as of *Artichoaks*, and after the same manner may be prepared.

You must take them up before the Frost prevent you, and house them as before was directed for *Turnips* and *Carrots*.

After



After the same manner plant the best for Seed as was directed for *Turnips* and *Carrots*,

*Radishes* in the more Southern Countries are a delicate meat, especially if <sup>of Ra-</sup> sown in brackish Lands, or watered with <sup>dishes.</sup> brackish Waters, and therefore were they in such esteem with the *Egyptians*, where were the daintiest and sweetest *Radishes* in the World.

The *Greeks* also so highly prefer'd them to all other meats in regard of their good nourishment, that in an Oblation of Garden-fruits unto *Apollo* in his Temple at *Delphos*, they dedicated the *Beet* in Silver, the *Turnip* in Lead, but the *Radish* in beaten Gold: Also *Moschian* the Greek Writer had so great an esteem for the *Radish*, that he compiled a whole Book of it, as *Pliny* relates.

These in our more Northern Clime attain not to that degree of maturity, as to become food, except it be the leaves, which boyled are eaten with salt meats.

But are very much regarded as a *Sal-lade* for their biting and quick tast, especially in the Spring, eaten with Salt.

There are three sorts of *Radishes*, the small eating *Radish*, the *Horse Radish*, and the black *Radish*. O 2 The



## The Art of Gardening.

The first is that which hath been so much in repute, and is now ordinarily eaten, and is raised of Seed.

To have them early they must be raised on a hot Bed, with a sufficient thickness of good rich light Mold, that they may have depth enough to root in before they reach the dung.

To have large and clean *Radishes* make holes as deep as your finger about three inches distant, into each hole drop a sound Seed (or two if suspicious) and cover the Seeds a little, leaving the rest of the hole open; thus will they grow to the height of the hole ere they dilate their leaves, and yield you a long and transparent root.

You may sow them all the year, those in the Winter in hot Beds, those sown after *Midsummer* will not run to seed that year.

They delight in rich and light ground, and require watering, for in dripping years they prove fairest.

*Horse Radishes.*

The *Horse Radish* is encreased by Plants as well as from Seeds, and used by many as an excellent and wholsom sawce.

*Black Radish.*

The black *Radish* is so mean a Root that it finds no place in a good Garden.

*Onions*



*Onions* are an ancient food, especially *of Onions.* of the *Egyptians*, and are much esteem'd of by the *Spaniards*, who eat them as English men do Apples, for in the hotter Countries they are a little milder than here.

There are several sorts of them, the red the most tart, and the white the mildest; the ordinary *English* are not so fair as those of *Biscay* or *St. Omers*, but these by often sowing degenerate.

Sow *Onions* in *February*, or beginning of *March*, between the full of the Moon and the last quarter, and they will head very well, and not run to *Chibols*.

They delight in good Land well tempered and freed from Weeds, they extend not their fibres far downwards, therefore in your sowing them tread your bed or beat it flat, then sow it with your seed as equally dispersed as you can and not too thick, then sift over it fine rich Earth a finger thick at most, By this means the root will grow larger and not be apt to run into the ground, for an *Onion* and a *Turnip*, the more on the surface they grow the fairer they prove, this I had from an experienced person.

*Onions* sown with Salt are said to prof-

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per



per and grow large; it is not improbable because they seem to extract much of the brackish moisture of the Earth.

You may sow *Onions* all the Year for the use of the young *Onions* or *Scallions*, Those sown in Autumn may be covered with Straw or Pease-haum and so preserv'd all the Winter and will be early *Chibols* or *Scallions* in the Spring.

You may plant small *Onions* or such that are grown or beginning to shoot in the Spring in deep holes and they will prove good *Chibols*.

There is a distinct species of *Chibols* or *Ascalonian Onions* in France that are increased by off sets as the *Eschalots*, but they are not usual with us.

The use of *Onions* is generally known, and the advantage they bring to the careful Gardener very great.

*Of Garlick.*  
The use of *Garlick*, is as ancient as that of *Onions* with the *Egyptians*, who had them both in very great esteem, as now our *Welsh* have *Leeks*, and used to swear by *Garlick* and *Onions*, deeming them sacred, because they afforded them so much rare food, much after the same manner do our ancient *Britains* dedicate the *Leek* to their Saint *David* on his day and



and *Egyptian* like some of them are known by their Magazin of *Garlick-fume* at a great distance.

*Garlick* is planted by off sets in *February* or *March* in good rich Soil and it will encrease wonderfully, about the end of *June* you must tie the leave in knots which will make them head, and prevent their spindling, it may be taken up in *August* when the blade withereth.

Much of it is eaten in *Wales* and *Scotland*, and some parts of *England*, and much more of it would be spent for its wholesomeness were it not for the offensive smell it gives to the by-Standers, which is taken away by eating of a *Beet-root* roasted in the Embers, as *Menander* ( a Greek Writer quoted by *Pliny* ) saith.

*Eschalots* are now from *France* become an *English* Condiment, and are encreased and managed neer after the same manner as the *Garlick*, only they are to be set earlyer because they spring sooner and taken up as soon as the leaves begin to wither, which is before the *Garlick*. They must not lie in the ground long after for either they rot in the ground or the Winter kills them.

They give a fine relish to most Sawces,  
 O 4 and



and the breath of those that feed on them is not offensive to others, as it is of those that feed on *Garlick* or *Onions*: they are apt to degenerate being planted two or three Years in the same ground, therefore it is best to renew your plantation with new Plants lately brought from *France*, within two or three Years.

*Of Leeks.* *Leeks* were in use as anciently as *Onions* or *Garlick*, not only in forreign parts but here in *Brittain*, as is evident by the constant use of them by the *Welsh*, who propagate an abundance of them, in so much that I have seen the greatest part of a Garden there stored with *Leeks*, and part of the remainder with *Onions* and *Garlick*.

By reason of their mild nature they are much used in *Pottage* which hath derived its name from *Porrum* a *Leek*, though now from the French we call it *Pottage*.

They are raised of Seeds as the *Onions*, and sown about the same time.

About *August* plant your *Leeks* in very fat rich ground, and make the holes deep with a setting Stick wherein plant them, but fill not the hole with Earth. Water them once in two days with water enriched with fat dung, and they will be very large and white. Plant



Plant the best for Seed as you doe the *Onions*. And the seed-bearing stalks of both must be supported by sticks and threds, else they will lean to the ground.

*Sives* being a diminutive kind of *Leek*, of *Sives*. is next to be mentioned, they are encreased by parting them and planting them in single heads early in the Spring, if planted in good land they will multiply exceedingly, they stand many Years and are a pleasant sawce and good Pot-herb.

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CHAP.



## C H A P. III.

## Of Beans and Pease.

**G**arden Beans, are an ancient Food esteem'd by *Pliny* the principal of all Pulse, They are a very strong and nourishing meat. *Pythagoras* forbid his Scholars, the eating of Beans only (as is supposed) because they were a rough meat and disturbed their sedate minds in the night, and are not therefore so good for Philosophers nor Students. The greater sort which we vulgarly call *Sandwich Beans* are by much to be prefer'd for their fruitfulness and goodness.

They may be set in *November* and at any time after till *May*, but most securely in *February* or *March*, for if they begin to spire, and very severe Frosts happen after it, they may be all destroyed, *probatum est*.

It is not good to set them promiscuously but in double ranges at three foot distance at least, the ranges running from North to South, the *Sun* will comfort and ripen them the better.



If you cut off the Stalks of your Beans near the ground when they are first ripe, the Roots will spring again and in seasonable Years you may have a second Crop about *Michaelmas*.

From whence we may conclude that if you cut of your Beans that are set in the Spring, at such times as they begin to blow, then they will germinate again into more Branches and bear late, much better than if they were planted late, which extreme drowth usually hinders from coming to perfection.

*Kidney Beans* were as ancient a Food as the other and in very great esteem with the old *Italians*, yet within the memory of Man were a great rarity here in *England*. Although now a known and common delicate food.

*of Kidney Beans.*

They delight in a warm light and fertile ground, which being well stir'd and about *May* day or very little sooner planted with the *Kidney Beans* at about a foot apart and two fingers deep, will yield you an extraordinary Crop.

You may either set tall Sticks near for them to twine about, or let them ly on the ground, but if you are straitned in room, those on Sticks will yield you the greatest encrease.

Of



Of these there are four Sorts. 1. The *Scarlet bean*, which yieldeth a rough husk and is not the best to eat in the shell as *Kidney Beans* usually are eaten, but is reputed the best to be eaten in the Winter when dry and boyled. 2. The *painted or Streaked Bean* which is the hardiest although the meanest of all, and is known, the dry Bean being all over streaked with a dark colour. 3. The large *White Bean* which yields a fair and delicate Pod. 4. The small *White Bean* which except in Size is like the latter but esteem'd the sweeter.

*Bona Vista's.*

There is another sort much like the last that is natural to the Island *Bona Vista* and thence taken and propagated in the Summer Islands from whence some certain persons have them dry, and esteem them as delicate meat, they will flourish well here in branch, but our Summers are not long enough to bring them to maturity, *Quere* if raised on a hot Bed.

*Of Pease.*

*Pease* are of divers kinds, and some of them the sweetest and most pleasant of all Pulses; the meaner sort of them have been long acquainted with our English Air and Soil. But the sweet and delicate sorts of them have been introduced our Gardens



Gardens only in this latter Age, such as the *Hot-spurs*, the most early, pleasant and profitable of all others. The *Sugar Pease* with crooked Cods the sweetest of all. The *large white* and *green Hasting*, and the great *sweet Pease*, which only we shall advise to be propagated in our Gardens. The other, which are many more, being already sufficiently known, we leave for a larger extent of ground than our narrow Garden.

The *Hot-spurs* are the speediest of growth of any, that being sown about the middle of *May* will in six weeks time return dry again into your hands, no Vegetable besides being so quick in its growth and maturity; therefore let these be the first that you sow; if sown in *February* or *March* they will come earlier than any other sort sown before Winter; but if you sow them in *September*, and can by Fences of Reed or otherwise defend them from extreme Frosts you may have ripe Peascods in *May* following.

The *Sugar Pease* ( which many take to be a fair white sweet *Pease* succeeding the *Hot-spur*, but erroneously ) is a tender *Pease* planted in *April*, and ripe after *Midsummer*, the Cods are very crooked and ill shaped,



shaped, which being boyl'd with the unripe *Pease* in them are extraordinary sweet. The greatest discouragement in raising these; is that their sweetness attracts the small Birds unto them to their total destruction, unless carefully prevented, which is a sufficient Argument of their pre-excellency.

The large *white* and *green Hasting* are tender, and not to be set till the cold is over, and then not very thick, for they spread much and mount high, and therefore require the aid of tall sticks, every one knows the worth of them.

There is another very large grey, but extraordinary sweet *Pease* that is lately propagated, it is tender but very fruitful, and deserves a large Bed in your Kitchen Garden.

They delight in a warm light soil, if it be rich the *Pease* are the fairer, if lean the *Pease* are the more early, and spend better especially when dry.

They are set with a Dibble to more advantage than sown in Rills or Furrows, but either way should be by a line, and the rows eighteen inches or two foot apart, as the ground is in goodness, that you may go between them to haw, weed, or gather them. If



If you keep the ground between them bare they will ripen the sooner, for the heat of the ground will contribute much thereto.

If you raise the Earth about them when they are about a hand breadth high they will flourish the better.

If you set or sow them in the beginning of or before Winter, you must interr twice as many *Pease* as you need to do in case you stay till *February* or *March*, because the cold and Mice will destroy a part.

Ground laid in deep Furrows from East to West, and *Pease* sown or set on the South declining side of each Furrow, will defend your *Pease* better in the Winter, than if they were sown or set on a level. For on the *Wiltshire* Plains the Husbandmen leave their Land after it is sown with Wheat, as rough and clotty as they can, to shelter their Corn in Grass from the severity of the cold Winds in the Winter.

*Pease* on sticks will bear more, but on the ground will ripen sooner.



## CHAP. IV.

## Of Cabbages and Cauliflowers.

Cabbages.

There is not a more ancient nor common Esculent Plant than a *Cabbage* or *Caulwort*, nor any Garden Aliment so wholesom, if *Cato* that lived near two thousand years since, and *Chrysippus* and *Dienuches* two famous Physicians more ancient, ( that wrote each of them a Volume of the excellent Vertues of this Plant ) may be credited, or the Country wherein they wrote considered. *Pythagoras* himself, long before *Cato*, had not so mean an opinion of *Beans*, but he had as high of this. Ever since those times we have had the consent and approbation of all our *European* territories ( except the more severe Northern ) that *Cabbages* and *Caulworts* are a good and wholesome Food, as their constant and vulgar use of them in every place sufficiently manifest. Here in *England* not a Village without them; and if there be a House without a Garden, or a Garden without a *Caulwort*, yet the Inhabitants

or



or Owners of them will furnish themselves from the Market: Yet are they not so addicted to the use of them here as in France, Holland, Germany, &c. where (in Germany) that famous City of *Wurtsburgh* is said to derive its name from the great plenty of *Wurts*, as they call them, that grow about it.

We have here many sorts of them besides the common which are known to every one, as the *Dutch Cabbage*, the large sided *Cabbage*, the white headed *Cabbage*, the red *Cabbage*, perfumed *Cabbage*, *Savoy Cabbage*, and *Russia Cabbage*.

The first that heads is a small white *Cabbage*, called the *Dutch Cabbage*, and comes in season before the common *English Cabbage*, and is very sweet, notwithstanding it hath not felt the Frost, which is a great improver of the taste of most *Cabbages*. *The Dutch Cabbage.*

The *Cabbage* that is now much in request is the *large sided Cabbage*, it's a very tender Plant, sown not till *May*, planted out in *July*, and in the *Autumn* is eaten as the best *Cabbage* in the World. *The large sided Cabbage.*

The large *White-headed Cabbage*, which is the biggest of all *Cabbages*, is worthy your care for its greatness sake. *The white-headed Cabbage.*

P

There



*The red  
Cabbage.*

There is a sort of red *Cabbage* and another inclining to purple, they are small and grow near the ground and are planted only for variety sake and to garnish dishes, &c.

*Perfum'd  
Cabbage.*

There are some sort that have a Musky scent, and are therefore called *Perfum'd Cabbages*, which are not unworthy your care.

*The Savoy  
Cabbage.*

But one of the best sorts of all is the *Savoy Cabbage*, almost as hardy as our common English *Cabbage*, the Winter Plants head very well being planted out in the Spring as the ordinary *Cabbages* are, the heads when the Frosts have touched them turn yellow, and then are delicate meat.

These that are raised of Seed in the Spring will have but small heads, which as also those without heads in the succeeding Winter are exceeding any ordinary *Caul* or *Cabbage*.

*The Russia  
Cabbage.*

The *Russia Cabbage* is the least and most humble of all the *Cabbages* growing very near the ground, is very pleasant Food, hardy and quick of growth: So that you need not be without all the Summer. The Winter Plants heading early and the Spring Plants arriving to maturity in seven weeks after they are Sown. Sow



Sow all your *Cabbage* seeds that you intend for Winter Plants in *August* or beginning of *September*, and when they are grown with leaves about three fingers broad then draw them and Plant them out in fresh and rich Land where they may remain all the Winter, and at Spring replant them where they are to stand for *Cabbages*. These are those they call Leger Plants that produce the fairest *Cabbages*.

You may sow your Seeds in the Spring in *March* and *April*, for *Cauls* for the whole Summer; and some of them, if the Year prove dripping or they sometimes watred, will head.

At the transplanting your young Plants water them with your Water that is enriched with Dung.

Before the great Frosts surprise you, you may take up your hardest *Cabbages*, and after they have hung up by their Roots about a Fortnight to drain the Water from them, you may either lay them in some Cellar where they will keep a long time or Plant them deep in the ground close one to another and cover them with hawm or Straw until you have occasion to use them.

Those you intend for seed you may



## The Art of Gardening.

plant in rich soil indifferent deep, and cover them from the Frosts, and in the Spring they will quickly aspire.

Besides these variety of *Cabbages*, *Caul*, and *Sprouts* springing from the old decapitated stumps, there is a perennial *Caul* that will continually yield you a green Mess when ever you have occasion, and deserves a Place in your Kitchen Garden, and is raised of Seed as the other.

Several of these curious *Cabbages* I received from Mr. *Richard Ball* Gardner in *Brainford*.

*of Cauly  
Flowers.*

There is a Species of *Cauls* much more excellent then any of the former which are *Caulyflowers*, which merit a far greater esteem at the Table than the *Cabbage*, for a time, their prime Season lasts not above two Months. But afterwards the *Cabbage* becomes a better Dish, which is welcome to any mans Table six Moneths together, and the *Sprouts* and green *Caul* all the residue of the Year.

Their Seeds are sown in *August* or *September* on Beds where they may be defended all the Winter by Mats or other close Shelter to preserve them from Frosts.

In the Spring about the end of *March* it is a good time to Plant them out in Plants where



where they should stand, which in a dripping Spring or by diligent watering will yield you fair Flowers, but if they are not watered they will bring forth ragged and divided Flowers.

You may sow their Seed in *February*, on a hot Bed and have Flowers within a Moneth after those that were sown before Winter.

Those that are of one growth usually Flower about a time, which to prevent you may remove some of your Plants once every fortnight for two, three, or four times as you think good, which will keep them back from flowering, and so you may have them one after another as you please: Or you may cut of your Flower before it be fully ripe with a long stalk and set it in the ground as far as you can and it will retain its ripening, but you must shade it, and give it a little Water, lest it wither.



## CHAP. V.

## Of Melons, Cucumbers, &amp;c.

Of Melons.

**M**elons or Muskmelons, as they are usually termed from their pleasant Scent, are in the more southern Countries not unworthily esteem'd the most delicate fruit the *Kitchin Garden* affords, for in those warmer Airs they attain a greater Degree of Maturity, which exceedingly adds to their Gust and Salubrity, however here in *England* being raised in the first of the Spring, and having thereby all the prime of the Summer and heat that Nature and Art can give them, they are a pleasant and a modish repast, and therefore deserve your singular care in their propagation and management.

There are several sorts of *Melons*, and called by several names, but those most usually known are the *large ribbed Melon*, and the *Small round Melon*.

They are sown in *February* at the full of the Moon in your hot bed, ( the making whereof you shall find at the end of this Book ) the Seeds first steep'd in Milk  
twenty



twenty four Hours, and then set two or three in a hole about an Inch deep.

When your Seeds are in the ground Cover up your Bed to preserve it warm, and when they are come up then cover them with Drinking-glasses leaving room for a little Air near the ground.

Towards the end of *April* you may remove your Melon Plants out of the *hot* Bed, into the Bed wherein they are to grow all the Summer, which Bed or at least certain large holes in it, is to be of very rich light Mould, the best time for this work is in an evening after a fair day.

At their first removal they must be watered and defended from *Sun* and cold three or four Days together, and afterwards from the *cold*.

When the Plants grow large, you may cover them either with Glass Bells made for that purpose, or with Square Cases of Glass made by the Glasiers for the same use. Be sure keep them close at night, and give them some admission of air under the Glass or at the top in the day time.

To prevent Frosts from hurting your Plants, and Hail from breaking your Glasses, if you have any forewarning of either you may cover your Glasses with Pease Straw or Mats.



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When you water your *Melons* ( which they expect only in very dry and hot weather ) water them at half a Foot distance from the Root and not wet the Leaves.

Place a tile under each *Melon*, it will lie the warmer upon it, and nip of the small shoots that exhaust the sap from the more leading branches.

Some perscribe to cover your *Melon* bed two or three inches with Sand, to encrease the heat of the *Sun* by reflection, but tiles under the Fruit may do as well.

Also it is advised that you shelter your newly removed Plants from the heat of the *Sun* at noon and untill four in the afternoon, as well as from the cold. And that untill the Plants have gotten leaves broad enough to cover their Stalks and Roots from the parching Sun.

When your *Melons* are as big as Tennis Balls, then nip off the shoots at some distance beyond them at a joynt. And the *Melons* will grow large.

*Melons* are known to be ripe when the Stalk seems as if it would part from the Fruit ; when they begin to gild and grow yellow underneath. And by their fragrant Odour they yield, which encreaseth as they more and more ripen.

But

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are cr  
more  
pickle



But every Melon appears not alike in colour when mature, therefore you must consider their different Natures. If they are to carry far, then gather them when they begin to ripen: but if they are to spend immediately, then let them be through ripe.

When you spend them, you may put them before they be cut into a bucket of cold Water, to refresh them, which will make them eat cool and pleasant, as it will mend a bottle of Wine in hot weather.

Leave some part of the Stalk to the Melon, lest by being broken too near, the Melon languish and loose the richness of its taste: Let them not when you gather them be too green, nor over ripe.

Preserve the Seeds of those that are most early ripe, and prefer those Seeds that lodged at the sunny side of the *Melon*.

*Cucumbers* have been in very great esteem in the more Southern Countries, and of late Years are much improved in *England*, and become a general Condiment for the hot Season of the Year, as they are crude from the Garden. And for the more cold season as they are preserv'd in pickle.

*Of Cucumbers.*

There



## The Art of Gardening.

Parroquets.

There are two sorts of them, that is, the *large green Cucumber* vulgarly called the *Horse-Cucumber* which the French call *Parroquets*. And the *small white or more prickly Cucumber*, these are best for the table green out of the Garden, but the other to preserve.

They are Planted and propagated after the same manner as are the *Melons*: only they require more watering. And withal they are much more hardy.

Although watering makes the *Cucumbers* more fruitful yet they are more pleasant and wholesome if they have but little water.

Of Pompeons.

*Pompeons* are much more hardy than *Melons* or *Cucumbers*; yet are they tender in their first Springing and therefore are not usually planted until *April*, and then for some time after they are come up defended from the cold.

They must be planted in rich old dung and require a large place to ramble in, they will lay their fruit on the ground or on Scaffolds made for that purpose or on pales or dry Hedges.

Of Squashes.

There are lesser sorts of them that are lately brought into request that are called *Squashes*, the edible part whereof boil'd and serv'd



serv'd up with powdered Beef is esteem'd a good Sauce.

These and several others of the smaller kinds of *Pompeons* are raised and managed as the *Pompeon* or *Cucumber*.

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CHAP.

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## CHAP. VI.

## Of Sallad-Herbs.

Of the Let-  
tuce.

**B**ESIDES the great variety of Esculent and Alimental Plants which we have already named, the greatest part whereof may be eaten by themselves, and not as Sawces or Sallads, there yet remain several excellent Herbs and Plants that are of great use in the *Kitchen*, and are very pleasing and wholesom at the table, the principal whereof is the *Lettuce*, which contendeth with any of the former named Plants for Antiquity; it is an excellent Summer Sallad, cooling and refreshing, and for that use hath it been always propagated: And although there be several sorts of them, yet that one *Cabbage-Lettuce* being the best, eaten either raw or boyled, the others may be neglected.

They are usually sown in *February* and *March*, and unless the weather prove very cold, they will flourish and yield you a Spring Sallad in the beginning of *April*, but if defended by any good defence, then



then will they be fit for use before that time.

Those that are sown in *March* or *April* in good rich land will head very well; yet it is said they will head better if transplanted whilst they are young, although some are of another opinion.

You may blanch the largest *Roman Lettuce* when they are at their full growth, by binding them up with Straw or raw Hemp, or by covering them with Earthen pots fit to enclose them, and afterwards heating the Pots with long dung.

*Purslain* in some moist Islands between the Tropicks is a natural wild Plant, but here in *England* is propagated with some difficulty, and used as an excellent Salad.

*of Purslain.*

It is tender in the Spring, the Frosts usually nipping it, but rather the drought or small dew Snails, for I have known more than once the seeds of *Purslain*, that have been spontaneously fallen in the Autumn, to flourish in the Spring notwithstanding the Winter, which indeed was not very severe.

But to have it early, you may sow it on the hot Bed, or in *April* in any rich soil finely dressed, and after the seeds are sown



sown, to clap over the Bed with the back of your Spade, and water it, for it delighteth in moisture.

If it be sown thin, or transplanted apart, it will yield you fair Plants, either for seed, or to pickle, or to boyl.

When the Seed looks very black, then gather the Stalks and lay them abroad in the *Sun*, which will the better maturate the Seed; lay them on a board or cloth to preserve them from spilling, and house them in the night, and expose them in the day until they are ripe.

It is said that the seed of three or four years old is better than the new.

*Corn-Sallad.*

*Corn-Sallad* is well known to be an early and excellent Sallad in the first of the Spring; it is first raised by sowing of its seed, but afterwards it will sow it self.

*Spinage.*

*Spinage* is known to be an excellent Herb crude or boy'd, it is raised of seed sown early in the Spring, but much better if sown in *September*, that it may gain strength to withstand the Winter, as is by some affirm'd; these Winter Plants are fittest for the Lent season, the Spring Plants for the Summer.

*Endive,  
&c.*

*Endive, Succory, Beets* and *Orach* are all of them good Sallads boyl'd, and are raised of seeds in the Spring. Of



Of *Sorrel* there are several sorts, but *Sorrel.*  
the largest is most proper for your Garden serving for many uses in the Kitchen, it's raised most easily of Plants which should not be set too near, it being apt to spread and grow large.

There is an Herb called *Patience* that is *Patience.*  
planted by sets in some Gardens, and makes a very good boyl'd Sallad.

*Borrage* and *Bugloss* are very well *Borrage*  
known for the excellent properties of *and Bug-*  
their leaves and blossoms, and are not *loss.*  
to want a room amongst your best culinary Herbs.

*Chervil* may be sown in the hot bed to *Chervil.*  
make an early *Sallad*, or in *March* for other times: the Seed lies long in the ground, you may therefore sow it at several times that you may have it young and tender throughout the Summer. This Sallad is much prefer'd for its fine biting tast, before many other dull Herbs.

*Allisanders* are sown in the Spring and *Allisan-*  
live over the succeeding Winter and are *ders &*  
blanch'd by surrounding them with long *Sceleri.*  
dung or covering them with Pots, and then are they fit to make an excellent Sallad, after the same manner is *Sceleri* ordered. Some set the Plants deep in the ground,



ground, as before was directed for the *Leeks*. Thus, *Beets*, *Succory*, *Endive*, *Lettuce*, and these two Plants so blanch'd make very good Sallads.

*Smalladge* *Smalladge* is an herb some use in their *Pottage* and is raised by Seed.

*Parsley*. But *Parsley* is the most universally used in the Kitchen of all Garden herbs. *Pliny* said of it so long since, that scarce any man there was but loved it, and that it was in so great repute in his time that in *Achaia* they honoured it by Crowning the Victors, in their sacred Games, with Chaplets of it, and as divers were the opinions of Physicians then as now of the vertues and qualities of it. This however we know that is an excellent ingredient in most *Pottages*, *Sauces*, and *Sallads*, its way of sowing is generally known.

*Garden Cresses*. *Nasturtium* or *Garden Cresses* are sown in many Gardens for culinary uses.

*Indian Cresses*. *Nasturtium Indicum*, *Indian Cresses* or *Yellow Lark-spurs*, from a Flower are now become an acceptable Sallad as well the leaf as the blossom. They are raised for early Sallads in the hot bed, but sown in *April* will grow very well on ordinary Garden ground and give you a plentiful encrease of leaves and Blossoms.

*Tarragon*



*Tarragon* for its fine biting tast is much *Tarragon*.  
 used by some in their sallads and is increas-  
 ed by Cions and tops.

There are several other herbs that are  
 nourished and propagated in *Gardens* for  
 the use of the *Kitchin*. As, *Bloodwort*,  
*Clary*, *Arach*, *Lang de beuf*, *Nep*, *Violets*,  
*Strawberries*, *Carraways*, *Fennel*, *Dill*,  
*Mustard-seed*, *Rocket*, *Rampions*, *Ram-*  
*sons*, *Sage of Jerusalem*, and *Marygolds*.  
 The Methods of raising and encreasing  
 them being so well known as also their  
 uses, that it would be superfluous here to  
 mention them.

Q

CHAP.



## CHAP. VII.

## Of Sweet Herbs.

Of Sweet  
Herbs.

**B**ESIDES all those before mentioned there are divers *sweet Herbs*, as they are termed, that are very necessary for the compounding many excellent *Condiments* and to add a Relish to the best *Pottage*, which shall be here briefly enumerated.

Of Mints

*Garden Mints* were universally used for *sawces* in *Pliny's* time; and much commended for their singular *Vertues*, especially the young red buds in the Spring with a due proportion of *Vineger* and *Sugar*, refresh the *Spirits* and stirreth up the appetite, and is one of the best *Sallads* the *Garden* affords, There are divers sorts of *Mints*, but the red *Garden Mint* is the best.

Of Sage.

*Sage* is also an herb or *Shrub* much used in the *Kitchen* and the young leaves thereof, especially of the *red Sage*, a very wholesome *Sallad* in the Spring. The slips thereof planted in *April* or *May* are very apt to grow.

There



There are several sorts of *Sage*, the red, green, small, and variegated, but the red is the best for most uses.

Of *Marjoram* there are several kinds, <sup>Of Mar-</sup> the fine sweet which is yearly raised of seed <sup>jooram.</sup> sown in *May*; the vulgar sweet, raised by slips and the pot *Marjoram* by the same way; there is also of this latter sort some that is party coloured or *White* and *Green*, and some only *White*, propagated for variety sake, the use of these is commonly known.

*Thyme* was anciently celebrated for its <sup>Of Thyme.</sup> great plenty of food it yielded for *Bees* as *Virgil* writing of *Bees*.

*At fessæ multâ referunt se nocte minores,  
Crura Thymo plena.*——

But those that youthful be, and in their  
prime,  
Late in the Night return, laden with  
*Thyme*;

*Pliny* saith that by the plenty or scarcity of the blossoms of *Thyme* you may foresee the plenty or scarcity of *Honey* for that Year, but the worth of this herb is not so much to be disputed in this place



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as the usefulness of it in the Kitchen, where it ought not to be wanting.

Of *Thyme* there are many sorts. The *Vulgar English*, the *Lemon Thyme* so called from its most exact smell like a Lemon, *Gilded Thyme*, *Musk* and *Mastich Thyme*, which last is incomparably sweet and ought to be carefully preserved; any of the other are fit for the Kitchen.

*Of Savory.* Of *Savory* there are two sorts, the *Summer* and *Winter*. The former is so called because it is annual and raised of seed: it is usually sown amongst *Onions*, because there is an ancient tradition that the growing of it there makes the *Onions* the more sweet; if you let some of it stand to shed its seed, it is so hardy that it will come up again the succeeding Spring although the ground be again digged.

The *Winter Savory* is so called because it lives over many Winters, and is increased by *Cions* as well as by *Seed*; the uses of both are very well known in the *Kitchen*.

*Of Hyssop.* *Hyssop* is nominated amongst culinary Herbs although not so much in use in the Kitchen, as for *Medicine* or its natural sweetness, it is so vulgar an herb that every one knows its propagation.

*Of several  
others.*

There are many other sweet Herbs that  
are



are useful in the Kitchin although not so generally as the former, but according to the particular occasions that require them as *Pennyroyal*, *Sweet Maudlin*, *Tansy*, *Balm*, *Basil*, *Burnet*, and *Coast Mary*, also *Lavendar* and *Cammomil* are not to be wanting, though not esculent in any case.

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CHAP.

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## C H A P. VIII.

*Of some other Esculent Vegetables.*

**T**Here are some Plants, Herbs or parts of them that are esculent either of themselves or in *Condiments*, that are not usually propagated in *Gardens* for that purpose, as the young buds of *Hops* boyl'd do much resemble *Asparagus* in the eating, and are very pleasant and wholesome where the other are not to be had, the young shoots of a new lop'd *Elder Tree*, being boyl'd are esteem'd a most excellent dish, the ordinary buds of *Elder*, and the red young tops of *Nettles*, and of *Water Cresses*, and also of *Brook lime*, every Herb Woman can tell you are good *Spring Sallads* or *Pottage Herbs*.

The green *Tops* of *young Pease* cut off and boyl'd are reported to be a most delicate dish, *quere* whether if they being cut off, the remaining *Roots* will not emit new shoots, and produce a fair crop of later *Pease*? If they will, then may you  
have



have late Pease better this way than by sowing late.

*Green Corn* bruised yields a juice that is used in the Kitchin in Esculents, and so may be reckon'd amongst the number, notwithstanding My Lord Bacon did not esteem it esculent.

*Champignons, Mushromes* or *Moufferons*, <sup>Mush.</sup>  
have been ever reputed a dainty dish, in <sup>romes.</sup> the choice and preparing of which the ancient Romans took a great delight. Yet then were several persons poisoned with the use of such of them, that were of a venemous nature, and in these colder Climates some sorts of them are not much to be confided in.

Those that are edible here with us are either *Mushromes* of the Woods and grow by the borders of Woods and Forrests and are very large. Or *Mushromes* of the Meadows and sweet pastures, which grow frequently where Cattel feed, which usually flourish in the Autumn, and are most esteem'd because of their beauty and whiteness above, and Vermilion beneath, having also a pleasant scent with them.

It is said that you may raise *Mushromes* in beds in your Gardens by preparing a bed with the soyl of *Mules* or *Asses*, and



covering it over four fingers thick with rich dung and after it hath laid a while to cool, then to cast on it the parings and refuse of *Mushromes*, and old rotten *Mushromes* with the Water used about them, and in a short time your bed will produce them. Or such water poured on Melon beds will cause it to send forth *Mushromes*.

It is probable that these though unperfect Plants may have a Seed which sown in an apt place may produce others of the same *Species*.

*Century. 6.* My Lord *Verulam* in his Natural History gives a very good character of them, imputing unto them two strange properties; The one that they yield so delicious a meat, the other that they come up so hastily, I have known one of about a foot in diameter almost round and full, of scarce twice twenty four hours growth.

The same honourable Lord tells you that its dangerous surfeting with them. And gives you several reports that the Bark of White or Red poplar cut small and cast into furrows well dunged will cause the ground to put forth *Mushromes* at all Seasons of the Year fit to be eaten.

He



He also adds a Report that Harts-horn  
shaven or in small pieces mix't with dung  
and watred putteth up *Mushrooms*.

CHAP.



## CHAP. IX.

*Of general Improvements, and  
Miscellaneous Experiments.*

## SECT. I.

*Of improving Garden ground by  
labour only.*

**H**AVING thus briefly given you a particular of Ornamental as well as useful Parts and Materials for your several Gardens, and the specifical wayes of preparing, ordering and managing of the various Plants, Flowers and other Curiosities usually growing in them, it now remains that something be said as to the more general manner of improving your Ground, and preparing of Dungs, Soyls and Composts proper for your use, and the making of hot Beds, with many other things necessary to be known by such that delight in the improvement of Hortulans.

Of



Of the general mixtures of Earths the one with the other, to qualifie their natures by adding that of a contrary, I have before discoursed. Of the preparation of Earth without any such mixtures Sir *Hugh Platt* hath given you an *Ænigmatical* description, calling it his *Philosophical Garden*, his Precept is, 'To  
'pave a square plot with Brick (if covered with Plaister of *Paris* the better )  
'making up the sides of Brick also, plaistered likewise; let it be of a convenient depth, fill it with the best vegetable *Saturn* which you can get that hath stood two Years or one at the least, quite within his own Sphere, make contrition of the same; And be sure to avoid all obstructions, imbibe it with *Aqua Cælestis* in a true proportion, grind it once a day till it be dry: Being dry, let it stand two or three days without any imbibition, that it may the better attract from all Heavenly influence, continuing then also a Philosophicall contrition every day ( this grinding must also be used in the vegetable works where the Mercury of Herbs is used in stead of *Aqua Cælestis* ) during all the time of preparation: Then plant what rare Flowers, Fruits or Seeds,  
you



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' you please therein, the same Philosopher  
 ' then tells you, that ( if his theory of  
 ' nature deceive him not ) that *Saturn*  
 ' so enriched from the Heavens, without  
 ' the help of any manner of soyl, marl  
 ' or compost ( after one Years revoluti-  
 ' on ) will make the same to flourish and  
 ' fructify in a strange and admirable man-  
 ' ner.

By his Vegetable *Saturn* may be under-  
 stood such earth that is most prone to send  
 forth Plants, by its standing so long with-  
 in its own Sphere is only that it hath been  
 covered either naturally by Turf, or  
 Artificially by building or such like that  
 it hath been prevented from wasting its  
 foecund nature by sending forth or bearing  
 Vegetables, The best of such rested fruit-  
 ful Earth is to be put in what quantity you  
 please into your Brick or Stone Cistern  
 ( being made proportionable ) but not  
 too deep lest it hinder you from stirring  
 the Earth to the bottom and will not per-  
 mit it to dry so easily, this must be redu-  
 ced to a fineness: therefore it would not be  
 amiss to let it pass the sieve or screen before  
 you put it in your Cistern. The imbibi-  
 tion of this Earth with *Aqua Cœlestis* can  
 be no other than which Rain Water, which  
 is



is exhaled from the Sea, by the influence of the Sun and in the Air attracteth a Volatile nitre which descending with the Rain on the dry Earth is soon imbibed again, this Volatile Spirit or nitre that thus ariseth in so great a quantity is that *Spiritus Mundi* that causeth all Vegetation, and wherewith the Air it self is filled, and by several wayes coagulated, and by the often irrigating the Earth with it, the Earth is the more fertilized; But this way of continuing the contrition or stirring it every day to dry it, makes the Earth much easier to attract the Water, which being added in a true or so little a proportion that it may not wet but moisten only, the Earth will leave its nitrous or vegetating vertue behind it when the Phlegmatick part fumes away again by the stirring of the Earth, which if it were added in too great a quantity would exhaust the nitrous Spirit that was before in the Earth. For it is a general observation amongst Philosophers that as the greater overpowereth the lesser so if the matter you add be volatile and greater in proportion than that which is fixt, it is apt to volatilize that which before was fixt being added unto it, and on the contrary that if the  
volatile



volatile matter be less in proportion than the fixt to which you add it, then is that which is fixt apt to fix the volatile : therefore did our Author wisely add, that the imbibition should be made in a true proportion, which is, that the rain water should be onely for an easy humectation, and not too great a wetting, then he tells you that it should stand two or three days without any imbibition, that is, between every humectation the Earth should be thoroughly dried as the Air or Wind can dry it, which will take up such a space of time, notwithstanding your daily stirring it, for the dryer any open terrestrial matter is, it doth not only the more easily attract, but more perfectly fixeth that which otherwise would be more volatile, although our Author hath not given caution of it, yet it is presumed that the square Plot or Cistern he prescribes should be covered or defended from the Sun which by his Rays is apt to attract much of the *Spiritus Mundi* or matter of Vegetables, where there is plenty unfixt; as is evident from the various smells that are exhaled by it, and colours also much sooner faded by the Sun Beams than by the heat of Fire. And also from the Rain, which

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which in great showers is apt to overmoisten it, and in continued Rains to prevent its drying, therefore your Rain water should be kept in a Cistern made for that purpose, where the longer it remains the better it will prove; such vertue always encreaseth whilst it is in its proper Matrix, as appeareth by Urine kept long which yieldeth much more Spirit than whilst it is new.

By the Authors saying that this grinding is to be used in the Vegetable work, where the Mercury of Herbs is used in stead of *Aqua Cœlestis*. It's probable here he means the express'd Juice of Green Vegetables which Virtually hath in it the matter of Vegetables and may have the same effect on the Earth in a small quantity and little time as the Rain water hath in a greater quantity by the long continuation of the operation.

This way of contrition, imbibition and coagulation enricheth the Earth after the same manner by covering it many Years with building, by which means Salt Peter is encreased; Only by this operation you may effect your design in one Year with labour and diligence which there you must wait many Years for, And by

this



## The Art of Gardening.

this may you heighten the vertue of your soyl to a far higher degree, it being manual, than the other which is natural and will not exceed the ordinary bounds limited in this Climate.

That our Authors *Saturn* is our natural and common Earth, and his *Aqua Cælestis*, Rain Water, may be concluded from his own expressions, used in the same description of his Philosophical Garden which are, ' That if the Earth it self, after it  
' hath thus conceived from the Clouds,  
' were then left to bring forth her own  
' Fruits and Flowers in her own time, and  
' no seeds or Plants placed therein by the  
' hand of man, it is held very probable,  
' that this Heavenly Earth, so manured  
' with the Stars would bring forth strange  
' and glorious Fruits and Flowers &c.  
' Which is not improbable if we consider the Fertility of the Waters of *Nile* which are first exhausted in those hotter *African* Regions by the power of the Suns influence ( when in a due latitude, ) and condensed by the Air far more fruitful, as well as the Earth, in *Nitre* there, than in these colder Regions yielding that great and fertile fload, whose precipitate or settling slime so far enricheth the dried and  
thirsty



thirsty Earth that it not only spontaneously produceth abundance of Vegetables but Animals also.

I know no reason but by observing our Authors direction in this Climate a diligent Operator may advance the vertue of our Earth to the same Degree or greater then the *Egyptian* Soyl, and then may it answer his Expectations, in producing such rarities that by no other ways are here attainable, for if any man would advance or improve nature, he must tread in natures steps and trace her to the Foundation. Next unto this extraordinary improvement of Earth by labour, without any other mixture than Earth and Rain water which many will not experiment because of the length of time required in it, you may facilitate the operation by often stirring, or digging your Land and reduced it to a fineness by skreening it, which also is a means to cleanse it from Weeds, Stones, Worms, &c. that annoy your tender Plants, by reiterating of which work you expose the Earth thus opened to the Air, Frost, Snow and Rain, and capacitate it to receive the benign Influences of the Heavens, and prevent the exhausting of the nitrous Spirit by the growth

R

of



of any Vegetables in it. This operation the longer you continue it the better, the time for the beginning of it is not material, so that you let it receive the effects of both extream Seasons: like unto this are your fallowings of Land for several grains especially the fallowings & twi-fallowings for Wheat long before the last plowing at the Seed time, and in several cases a contrition or dragging after the fallowings which proves a considerable improvement of stiff Land. Thus may you see how nature is improved by industry only and that but by treading in her own Steps, for Earth often trod on by Men or Beasts in the Streets or High ways is very much enriched by such exposure, and Earth defended from the Sun and Air in like manner becomes fertile, although from different causes, the former from the volatil Nitre and other influences in the Air, Rain and Snow, the latter from the condensation of the *Spiritus Mundi* or nitrous breathings of the Earth. And both by reason that those fertile qualities are not exhausted by vegetation.

But as this latter operation is more facile than the former, so you cannot expect that it should produce effects answerable

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ble to the other, which is very much to be prefer'd by such that are curious, although this latter way may yield you a sufficient recompence for your labour yet the former cannot but far transcend it.

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SECT. II.

*Of several wayes of enriching Earth  
by mixtures.*

**I**T is without question that Earth or Mould is to be made more fertile than naturally it is, by mixing therewith several materials that contain in them much of the vegetating Spirit, as the Ashes of any manner of burnt Vegetables. For by such burning is wasted the more phlegmatick and useles moisture, and are fix'd the more solid and substantial parts: the same effect hath fire on the Turf or rooty surface of the Earth, this smegmatick or oily matter that is left by the fire, in a moderate proportion applyed to any Earth highly enricheth it and makes it apt for fructification, as appeareth by the vulgar experiment of Burn-beating of Land which yieldeth so fair crops of Wheat



## The Art of Gardening.

and other grain. In which operation the Rustick observes that over burning the turf is injurious, and that a more moderate burning maketh the ground more fertile, the reason is plain. For in the burning of any Vegetable a gentle easie and smothering fire doth not wast the volatile nitrous Spirit so much as a quick, but causeth much more of it to fix and remain behind.

These fixed Salts that are thus obtained are the principal Salts that are so much celebrated for the improvements of Earth to render it more fruitful, although there are many other Salts neer in affinity to these that do in some Degree meliorate Earth, as the Salts that are in *Bloud, Urine, Soot*, and several other things of the like nature, by the mixture of those materials with the Earth or sprinkling it with them whereby the Rains usually carry down their vertue to the Roots of your Plants.

The parts of Animals as *Skins, Hair, Feathers, Flesh and Bones, Horns, Hoofs, &c.* Contain in them much of these Vegetating Salts although Volatile, yet in such compact bodies, ~~that~~ they continue until they are by your Plants attracted, as ma-  
ny



ny Husbandmen have made expediments of the extraordinary vertue that is in old Woollen rags in fertilizing Land for Corn giving ten times the price for a load of them to lay on their Corn ground, that they will for a load of dung, and are yet great gainers by it, and fetch them from near *London* into *Hartford-shire* into the bargain: *Wool*, *Hair* and *Feathers*, are neer of a nature and therefore have neer the same effects.

The *fish* and *bones* of *Beasts* *flesh*, &c. Are generally known to add very much to the improvement of Land but for garden uses, it will be more conducing to your purpose to let the same be thoroughly putrefied and reduced to a moderate compost with Earth before you apply it, for all nauseous and ill favoured materials are to be excluded your Gardens, either for the Kitchen, or for delight.

*Horns*, *hoofs* and *skins* contain in them much of a rich volatile Salt: and it hath been anciently observed, and in such Countries where naturally the ground is more replete with Nitre and more fertile than here, that these materials have very much fertilized garden ground especially for the *Asparagus* that requires strong nourishment,



## The Art of Gardening.

rishment, therefore the shavings or odd pieces of Horn, and the lesser horns and the Hoofs, and other excrementitious parts of Beasts at the common slaughter houses may be obtain'd to make your deep Beds for *Asparagus*, *Artichocks*, and such like, and may not be unuseful in enriching your ground for your choicest flowers.

The shreds of *Tan'd Leather*, partaking aswel of the Salt of the Oaken bark and lime, as of the beast, must of necessity prove a very great improver of your garden ground, and may be had in great quantities at the Shoemakers, where they usually burn them. These shreds soon rot and with *Rags*, *Hoofs*, *Horns*, *Hair*, &c. Mixed with a good quantity of Earth and laid in a Pit and sometimes watred will make an excellent compost for your Kitchen garden, if afterwards disposed of in proper Beds.

*of Sheeps  
dung.*

Take Sheeps dung and put water to it (in some Vessel) so much as by stirring may reduce it to a pap, and when it is all thoroughly dissolved mix some fine sifted Earth with it; let the Earth be four, five, or six times more in quantity than the Sheeps dung, according as the Earth is in  
goodness



goodness: if it be a poor Sandy Earth, the more of the Sheeps dung it requires to enrich it; if it be a stiff ground, the more it requires to make it light, but an indifferent mellow Earth requires the less, for Sheeps dung is one of the richest of dungs. As may be observed from the great improvement that is made by Flocks of Sheep being folded on the poor champion Lands, where such land yields much Corn, when not being so improved it will yield but little and this from one only folding in several Moneths, or sometimes in a whole Year together, Deer and Goats dung are much of the same nature with Sheeps dung. The reason of which extraordinary fertility in that soyl is from the well chewing the food, the long continuance in the body, and the not (or but little,) drinking of the beast. For Sheep and Neat chew the cud, by which means their food is made fine, both these (and so do Deer and Goats) retain their meat longer than Horses or Swine who feed more grossly and hastily, the dung of the one being like wisps of Hay, of the other like a mixture of all sorts of filth. Also *Sheep* and *Deer* drink but little which make their dung and their Urine (which



also is very rich could it be preserved ) very fertile. *Neat* drink much which very much tempereth and allayeth the heat and fertile nature of the soyl. Earth thus mixed with Sheeps dung dissolved, is very excellent for most sorts of *Fibrous* rooted *Flowers*, because the decay of the dung ( which will be in time )leaves the ground porous that the fibres thereby aswel insinuate themselves and spread abroad as they do contract the richness the dung affords them : *Tuberous* rooted *Flowers* also affect this mixture : *Artichoaks* delight in it exceedingly , and Sheeps-dung applied to the Roots of them, and then often watred, whereby the vertue of it may be conveyed into them , makes the Plant yield you fair fruit ; most garden tillage affect it, for it is not only a very rich soyl but renders the ground light and porous, which is very advantageous to Tillage.

*Neats  
dung.*

A mixture of Neats dung after the same manner, is very good for most of the same uses as is that of Sheeps dung. And better in some particular cases, for that if you have occasion to remove or plant any good Flower in the Summer time or out of its proper Season, such a mixture of Earth and Neats dung made into a liquid

pap



pap and the Tree or Flower placed in it that the liquid matter may encompass the root, will so adhere to it, and be so cool and moist that it will cause the plant to thrive as well as if it had been planted or removed in its proper season.

Horse dung whilest new is the hottest *Horse dung.* of dungs laid in a great quantity together, by reason that a Horse chews his meat but little, feeds hastily, and evacuates it in a short time; so that like chopt Straw or Hay but beginning to ferment in the belly of the Horse, it continues fermenting after it is in the dunghil but if it be laid up with the litter that is usually moistned with the Urine of the Horse, and after it is thoroughly rotten, which will be much the sooner if it ly in a moist place or be often watered by Rain or by hand and turned withall, or cast, as the Husbandman usually terms it, it then makes an excellent compost for your Kitchin garden.

In your Swine-yard or places where *Swines dung.* Swine usually tread, or feed, the Earth is very much improved by their dunging and pissing, which trampled into and mixt with the Earth makes it become a very good compost, especially to allay that rankness or over freeness of some very light



## The Art of Gardening.

light and rich Soyls that breed the canker in Trees and too many Worms and other vermine and insects that destroy your choicest Plants. This dung or earth so enriched being a fat cooling compost, may be with success used in both your Gardens. but rather amongst your fruit trees where it excels.

*Asses  
dung.*

Asses dung is near of the nature of *Sheeps dung*, *Deers dung*, &c. spoken of before, although not altogether so rich.

*Pigeons  
dung.*

The dung of all corn-fed Fowl is very hot at the first, especially that of Pigeons, because they feed hastily and evacuate the same digested in a short time and Urine not. So that their drink is no more but only to digest and nourish and not to carry away any of the vertue of the meat nor lessen the strength or fertility of the dung. Experience hath taught the Husbandman that in the Champion Countries where great store of Pigeons dung is to be had, the same sown but thinly with Barley makes a poor ground yeild a good crop, for when but thinly sown the Rain and Air soon qualifie its present heat, which if it were laid thick would burn the Corn especially at that season, or else make it grow too rank, which is as great a fault as its  
being



Being too short. Therefore you may well conclude that these dungs laid in a heap in the open air and moistned by the rain or otherwise until their heat is over, will make a most rich compost for either Garden, but more especially for your Kitchen Garden.

I only here give you a caution not to use Malt Dust in your Garden, for there are many seeds of pernicious weeds in it, that have passed all the imbibitions, fermentations and exsiccatations of the Malt, and yet retain their vegetating nature, and will furnish you with new species of weeds out of the fields, that your Garden before was not acquainted withal.

The setlings of waters where there is least current is the best, but the Mud or residence of any water unless it be over much sandy is excellent to qualifie the nature of your ground, if your ground be light then use stiff Mud, if your ground be stiff or cold then use light or sandy residencies: these mixtures are good for all sorts of Garden ground.

Any ashes or other matter whatsoever that contains salt is good, so that the quantity of the matter containing the salt, doth not too far exceed the Salt contained in it, as



## The Art of Gardening.

as usually Wood ashes after they have been in the Washhouse, Sopehouse or else where have the most of their Salt extracted, and then applyed to your ground sterilizeth it unless it be to a strong Clay ground, then it will make it lighter although not richer.

The Ashes of any burnt vegetables are excellent as before we observed, a mixture of Lime is very good in most grounds, but the salt of Lime extracted by water, and your ground watred therewith, is much to be preferred. It hath also this singular property, that it makes the worms soon leave the place watred therewith, and expose themselves to the Air where they soon perish, or to the Birds who devour them. The same effect is wrought by any *Alkalizate Salts*, or salts produced by fire.

*Murc.*

The *Murc* or refuse after the pressings of *Cider* and rotten fruit, are very good to mix with your earth, but it must be after it hath lain a long time in some pit or heap until it hath lost its savour, and until the seeds or kernels are dead, lest they germinate and incommode your Garden.

*Rotten wood.*

Any drexy wood or the dust of the wood-pile, but more especially rotten willow,

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willow, is excellent to make the Earth light for most fibrous rooted Flowers. The same is Sawdust if it first lye in a moist place until it be rotten, and hath its acidity abated or digested.

Straw or any dry vegetables become rotten and mix'd with Earth, maketh it light and fit for your choicest Anemonies, and all fibrous rooted Flowers. *Straw.*

Tobacco dryed or cur'd, and afterwards mix'd with your Garden mould, will doubtless exceedingly enrich it: For it is of a very high and strong nature, and containeth much of a Volatile Nitrous Salt in it, and is reported to be equally as effectual in the tanning of Leather as the Bark of the Oak, which if it be true, as I have no reason to doubt it, it may prove a considerable improvement of many Country farms, and of great benefit and advantage to the Nation in general, either of which uses is better than that to which it is now usually put unto. *Tobacco.*

SECT.



## SECT. I.

## Of Watring Gardens.

*Fat wa-  
ters.*

**B**ESIDES the mixture of several materials and composts with land to make it fruitful, you may add enriched waters which serve where you cannot conveniently change your ground, or remove your Plant as in several *Flowertrees*, and *Artichokes*, *Asparagus*, &c.

That water is very good that is taken out of standing pools, where Cattle usually resort to shade or cool themselves in hot weather, and leave their dung in it, which by the stirring of their feet enricheth the Water, Ducks and Geese also much improve standing pools where they frequent.

Several waters may be prepared in which you may steep or macerate your seeds or pulse, to make them sprout the sooner or come the fairer, and with the same water may you irrigate your ground: many Receipts there are to that end, I shall only mention some of them.

Take Sheeps dung well dissolv'd in warm water, and after it hath stood twelve hours

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strain it through a course cloth with compression, for it is so slimy that it comes through with difficulty, therefore I suppose a decantation may serve. To two or three Gallons of this liquor add a handful of Bay salt, and somewhat a lesser proportion of Salt-peter, and let them both be dissolved in the former water, which to expedite let it be made lukewarm and stirred often, in which liquor let your seeds lye for twenty four hours or more, till they are thoroughly swelled. Pulse need not to lye so long, then take out your seeds or pulse, and expose them thinly on some floor to the Air (not the Sun) until they be half dry, then sow them. It is also prescribed that the remainder of the Sheeps dung that was not made liquid, should be dryed and calcined, and the fix'd salt extracted out of it, and added to the former composition, but it's more probable that another parcel of Sheeps dung calcined, would yield more and better salt, than the remaining part of the dissolved dung. This latter part makes the process too difficult and troublesome, and adds but little to the virtue of it, any other fixed Salt having the same effect as that so hard to be obtain'd.

This



This Liquor is more effectual for the watering of Plants than it is for the maceration of seeds, and so are any other salt waters, Some add a greater quantity of Salt-peter, and Bay-salt, some only Salt-peter, others use Pidgeons dung instead of Sheeps dung, also Lime water after that manner enrich'd with *Sheeps* dung, *Pidgeons* dung or *Neats* dung, is equal in vertue if not exceeding that to which Salt-peter or bay salt is added. Every Husbandman hath experimented the effect of Lime, the Salt only extracted by the rains enriching the Earth occasioning so plentiful a crop, the other remaining part like a *Caput Mortuum*, only tempereth the land for the future, and maketh it more sad where before it was too light, which if the Land did not require it, then doth Lime (after its salt is wasted) much injury to the land whereon it is laid.

Nitre or Salt-peter only, dissolv'd in water a pound to four or five Gallons is held to be very effectual to enrich barren Mould this agrees with our observations about earth covered with building, or otherwise defended from Sun and Rain, for the generation of Nitre.

Some commend the sprinkling of Milk and Rain water on the Beds, first sifted over with



with Lime pulverized, whether by pounding or slacking with water it mattereth not (neither of which can improve or abate the vertue or quantity of its salt, the thing we desire) and after every watering sifting more Lime. This way may not be amiss for such lands that the *Caput mortuum* of the Lime remaining after the salt is extracted, will not prejudice, and for such plants that the Lime lying on the ground will not injure. The Milk may be left out, not signifying so much as the value of it amounts unto, the liquor wherein flesh meats (whether fresh or Salt) have been boyled is much better and easier obtained. The Salt of Lime (extracted with water in some large wooden vessel) containeth in it the same improving vertue, and is less troublesome to make use of, and free from the inconveniences that attend the other way.

Much more might be said concerning these improving liquids as well as solids, but that the most learned and experienc'd of Rural or Hortulane Authors, hath lately been very copious on the same subject.

Mr. Eve.  
lin.

Only I may here advise the unexperien-  
ced not to water his plants in either Gar-  
den,



den, with a cold Spring or Well water, if he can obtain any other, which if he cannot, then to expose this to the Sun or Air some time before he useth it, or enrich it by some pinguid mixtures, as Lime, Ashes, Dung or such like will quickly qualifie it for his purpose, by abating the sudden coldness of it to the Plant. For it is a very great injury to most tender Plants to be diluted with cold water from the Well or Spring, and check their growth exceedingly, as may be observed in a bleeding Vine, to the naked Roots of which if you pour store of cold Spring or Well water, it suddenly checks the ascension of the Sap, by means whereof the bleeding ceaseth, and the wound consolidates again before the more liberal ascent of the sap, much more then will it check the growth of a weak Herb or Flower.

Also as it is observed to sow in the dust, whereby the seeds gradually swell from the cold dews of the night and air, and are made ready to sprout with the next rains, so it is not good to water new sown seeds until the long defect of showers invite you to it, some seeds, as *Radish*, *Lettuce*, *Gilliflower* seed &c. remain not long in the Earth, and therefore may in two or three days

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days, for want of rain, be watred by hand; But *Tulip*, *Auricula*, *Parsley*, *Carrot* seed &c. lye longer in the ground and require not so speedy an irrigation.

All seed ought to be watred by the smallest or rain-like drops as you can, and not too much, for hasty watring and hasty showers discover them.

For most Flowers and Plants whose leaves lye near the ground, it is best to water them at some distance by making a Ring round the Plant a little hollow, and pouring the Water into it, whereby you annoy not the leaves with your discolouring water, or chill them with the coldness of it.

In all warm weather the evening is the best season to water in, because the water will have time to sink into the earth, and the Plant to attract it before the heat of the Sun exhales it, but in cold weather and when the nights are cold, the morning is the most proper time that the superfluous moisture may be evaporated before the cold Night overtake you, and chill your Plant.

By no means use liquors either naturally hot as spirits, or artificially made so by heating it over the fire.



A Plant that delights in moisture or a drooping Plant that you may suppose Water will preserve, may be watered by filtration. Which is by placing an earthen pot full of water near the Plant, and putting therein the end of a list of woollen cloth, the other end thereof to hang down on the out side of the pot to the ground, near the root of the Plant. By means of which list if it be thick enough, the water will filtrate or distill over the brim of the pot through the list of woollen, so long as any water is in reach of the list in the pot, always observing that the end of the list in the out side of the pot, be longer than that in the inside, and that the list be thorowly wet before you add it. The reasons of this operation which many Country Colons's daily experiment we will not here discourse of.

*Watering of  
Flower  
pots.*

To water your Flower pot that the water may the easier descend to the bottom and throughout the whole pot, you may before you fill it with earth place in it a pipe of Lead, Latton, or such like, close at the bottom with divers holes at the sides of it, let the Pipe extend in height to the top of the pot, and when the pot is full of Earth and planted with Flowers,  
and



and that you cannot conveniently otherwise water it, then with a funnel fill the pipe with water, and reiterate your filling of it until you think there is enough, and by the holes on the sides of the pipe, the water will moisten the whole pot of earth. The water you use here, ought to be meliorated by some of the former ways: For Earth thus separated from the ground, is more apt to decay than that which is remaining on its natural foundation which continually receives an improvement, by perspiration of the Vegetating Spirit.

There are several sorts of watering pots in use for Gardens, the most useful is the common watering pot made of tinn'd plate or Laton: The nose or end of the Spout whereof is covered with a cover wherein are many small perforations, that the water may force through in small streams and besprinkle your plants or seeds like unto Rain. This Cover is made to take off and on to cleanse at pleasure.

There is another sort of Watering pot that hath a small hole at the bottom and another at the Top, so that when you sink it into a Vessel of Water, it will fill by the lower pipe or hole, the air passing out at the hole at the top where the handle is also:

*Watering  
pots.*



## The Art of Gardening.

when it is full take it by the handle and stop the hole with your thumb, and when you come to the Plant you intend to water, you may ease the hole whereon your thumb lies, and as you please let the water out at the Pipe in the bottom, for as the Air comes in at the top, the Water will issue out at the bottom, and so may you stop it, and open it with your thumbs, at your pleasure, with this pot you may easily let the water down on your Plants that can bear with a washing shower.

You may water any ground by the first sort of watering pot, with any enriched or thick water if you take off the cover of the Pipe and convey the same water about the Roots of any Plants without fouling the leaves or flowers.

Also you may have a small Engine made like one of the Engines for the raising of Water to extinguish fire withal, and place it in a frame to drive to and fro about your Garden, you may fill it with Water and the Spout or Pipe with a perforated cover like unto the Common watering Pots (but not so broad as to spread the Water so much) with this Engine may you imitate Rain, over any of your Beds at a distance, and wash your wall

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Trees from Vermine and refresh them at your pleasure.

Any of these Watring Pots may be preserved for many Years from Rust to which they are very apt by painting them over with Linseed Oyl and Red Lead.

To preserve your Watring Pots.

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SECT. IV.

Of making hot Beds.

IT is evident to all that most Plants do naturally observe the season of the Year in their Germination, growth, and maturation; And although they are removed into another Climate, yet do they incline to the observation of the same time as they did in their own former natural place of their growth, as the *Persian Iris*, *American Strawberry*, and several others, which make them the more acceptable as they come earlier or later than others of the same kind. So is it with many other Flowers, Fruits or Herbs: For we annually observe how acceptable a dish of early Pease is over what they are when later and common and so are *Asparagus*, *Cucumbers*, *Melons*, &c.



## The Art of Gardening.

The growth of most Plants is quickned by a warm position, as under a warm Fence or Wall, and by an artificial heat, as by being planted against a place where fire is usually kept, or by watering them with Waters impregnated by hot dungs, which will very much accelerate Germination.

*To raise a  
Sallad in  
few hours.*

If you would have Herbs to sprout immediately, then lay a Bed of unslak'd lime powdered, with a mixture of Ashes if you please or without, on that a lay of hot dung, and on that another lay of lime, and then on that a lay of fine rich Mould, wherein sow your seeds, as *Lettuce, Purslain, Corn Sallad, Parsley, &c.* First steep'd in Whitewine or some of the former prepared Waters, and water them when sown with some of the same richest Waters, and they will suddenly appear above ground and as you water them so will they prosper. This should be done within doors lest the coldness of the Air should impede their growth, the often watering them facilitates their nourishment.

But the hot Beds that are most useful, and whereon you are to raise your tender exoticks, and your early flowers and also

to  
(3)



to raise and bring forward your *Melons*, *Cucumbers*, *Cowly flowers*, &c. Is usually made in *February*, and after several manners.

Some prescribe the making of it, by laying of hot Stable dung that hath lain in a heap, mixing the newest with the old, and laying it about four foot broad, the better to preserve its warmth, three foot high, and as long as you have occasion or materials. This Bed well trod (to excite the heat) is to be covered about four inches thick with very fine rich Mould, the top of the bed being first edged round with board to keep up the Mould: thus must it ly until it hath passed its greatest heat, which you may prove by your finger, for it ought to be but warm not hot. In case its heat lesseneth at any time, you may encrease it by applying new dung to the sides of your bed, on this may you sow your Seeds.

There must be some frame Arch-wise, or flat, over this hot bed, that a covering of Mats or Straw hurdles may be spread over it, every night and in cold days: make your covering so that it may aswel keep out the Rain and Snow as the Wind.

But



## The Art of Gardening.

But the best description of a hot bed is that of *Mr. Evelyn* in his late Philosophical discourse of Earth, To this effect, dig a pit about four foot deep, of breadth and length as your occasions require, wall this pit on every side with Brick, or erect your wall above the ground, or part above, and part under. Then fill it with hot dung from the Stable and tread it well. In this place wooden Cases of about a foot in depth bored full of awger holes at the bottom, fill them with Earth rich and light, and add hot dung between them, in which Cases sow your Seeds, and these Cases and the Earth in them will be kept warm by this means during the whole season wherein a hot bed is necessary, you may provide a shelter against Rain and cold over the whole if you please, and you may have frames of glass over some of your inside cases where there is most need, others you may leave open as your seeds require. By this means have you your Pit and Cases every Year ready to your hand, requiring only a supply of fresh dung.

SECT.



## SECT. V.

## Of Miscellaneous Experiments.

**T**He often removing of Flowers in their proper Season preserves their colours, especially their variegations, for long standing in one soyl causes any Plant to degenerate, partly because the Plant hath exhausted the proper nourishment for it, out of that place where it hath stood so long, and partly because the soyl is apt to change the nature of the Plant, being exotick to it, as is usually observed in *Beans, Wheat, &c.* sown on the same sort of Land, although not on the same parcel, is apt to degenerate. Therefore removing of Plants and alteration of the soyl is a good way to improve them, several Esculents grow the fairer, as *Cabbages* will not live well in case the young Plants be not three or four times removed before the Spring. The same is observed in *Lettuce, Onions,* and several others. If they are removed into improved Earth every time they will eat more tender and better.

Flowers are more in esteem when they come early or when they come late, to make them early the means are generally known

Often removing of Plants.



*To make  
Plants  
come late.*

known, but the retarding of their flowering, often removing and preventing the usual excitements of the Sun and Air, will effect: For the disturbing the Roots in the removal is a great hindrance to their attraction of nourishment, and it will be several days after the removal before new fibres will shoot forth to gather new nourishment: and the standing of a Plant prevents the digestion of the sap by the heat of the Sun and Air. This is of great use in retarding the flowering of several Flowers, and also the growth of several Esculents, as Cauly-flowers, &c.

*Plants to  
defend  
from cold  
and Sun.*

It is usual to defend several tender Plants from the cold in the Winter to preserve them, and to expose them to the Sun in such Winter days that prove clear, which exposure injureth the Plant more than the cold. For the Sun Beams in Frosty Weather especially if there be Snow on the ground, makes a Plant faint and sick. As is observed in the Laurel which if it grow against a North wall or in the shade, although open to the severest Winds, yet retains its green colour all the Winter, but if it stand in the Sun, it changeth yellow, only from that cause. The same is observed of several tender Plants that  
are



are usually sheltred from the Winds and exposed to the Sun, yet it is not improper to give Plants Air and also Sun in mild Weather at any time of the Winter, which cannot hurt them.

The cutting off of the buds and Branches of Flowers, leaving only one or two or more as the strength of the root will bear, causeth it to yield the fairer Flowers than otherwise it would do: after the same manner if Herbs be often cut they gather the more strength, yield the fairer leaf, and take better root, and endure the Winter the better. The cause is, that the sap hath less to nourish, and that which is nourished must therefore be the stronger; and the less the sap is expended above, the more strengthens the root in the ground as may be observed in most Trees that are lopped. And then do they afterwards issue forth the fairest Branches, some Plants usually perish in the Winter for want of being cut in the Summer precedent, and from the same cause, as *Wall-flowers, Thyme, Marjoram, &c.*

*Often cutting of Plants.*

Some Plants are too apt to wast their sap in Flowers and thereby shorten their lives, as *Gilly-flowers, Stock Gilly-flowers* and some others, which if their blowing shoots were

*Plants to continue long.*



were nipt off they would gather strength and continue longer, for the wast of the sap overmuch makes the Plant feeble and uncapable of enduring any severity of Winter or Summer, as is sometimes observed in young Fruit trees, that they blossom themselves to death: and some I have known to grow themselves to death, for the freer the sap is in expending it self in Branch and Blossom the more tender is the root, which becomes a prey to the Worm and Canker as doth the Branch to the severe Air. The way to prevent which is prescribed in the last mentioned experiment.

To meliorate  
Plants.

It is observed that all Herbs wax sweeter, both in smell and tast, if after often cutting you take the latter Sprouts, because the sap is the longer digested and the root the stronger. The same is observed of Esculents, the young Buds or Sprouts of old Roots eat more tender than the first cuttings.

Onions  
large.

My Lord Bacon seem'd to approve of the opinion that *Onions* wax greater, if they be taken out of the Earth and laid a drying twenty days, and then set again. And the more if the outmost pill be taken of all over, but mentions not at what time

of



of its growth this is best to be done; however it is a sufficient encouragement for Gardeners to take up the *Onions*, where they casually come up too thick, and plant them in thinner places. Several Plants are so removed as *Turnips*, *Lettuce*, &c. and are the fairer, therefore this observation may be of use.

Sift ashes, or quick Lime beaten small, about any Plant, and it will preserve it from Snayls or Worms, by reason their naked bodies cannot endure the sharpness of the Salt of the Ashes or Lime. So if you water the ground with the Water wherein Lime or Ashes have been steeped, the Worms will soon leave the ground, where the Water gets into their holes: from the same cause. You may also in a Summer Evening ( after Rain ) with a Candle draw the Worms as they ly on the ground, and put them in a Pail and dispose of them as you think fit, but you must tread soft, for the least motion of the ground maketh them retire into the ground. Thus in two or three moist Evenings may you clear a whole Border of the greater Worms which are most hurtful.

Snails and Worms are all of them of an  
Herma-

To pre-  
serve  
Plants  
from  
Snayls  
and  
Worms.



Hermaphroditical nature, and are all breeders, and when they couple are easily destroyed especially the Snails who couple from the Spring until *Midsummer* and after. And lay their Eggs in the ground, you will find them with their bodies buried in the warm dust and only their shells above the ground, when you take them out you must rake out their Eggs and destroy them, for otherwise they will lie there until they have strength to Travel, and then, some in the same Year others in the Spring following, you will have them dispersed amongst your tender Plants and your Wall Trees, where after a shower you may pick them off.

To know  
good  
Seeds.

If you doubt of the goodness of your Seeds, take some of them and put them in fair Water and set them in a gentle heat Twenty four Hours, and if they are good they will Sprout, else not. Also you may wash your Seeds in Water and the dead and light will swim, and the good and heavy will sink, but they must be all thoroughly immersed, else you may be deceived.

To defend  
Plants  
from Frost.

Secure the Root as well as you can from the Frost: for if you defend that, the Branch seldome suffers, but if the Root  
be



be not secured, although the Branch be never so well defended it will perish. Therefore earth up the Roots as well as you can, and place any ordinary defence about the sides of the Plant, and no Frost will hurt it, (unless it be your tender Plants that are for the Conservatory) Thus may *Gilliflowers*, *Wall flowers*, *Stock Gilliflowers*, *Artichokes*, &c. Be preserved.

Some Plants, if the Roots stand dry, the Frosts rarely hurt them; which if moist, they are usually destroyed, as *Rosemary*, *Sage*, *Wall-flowers*, &c. Either of these will grow on a Wall and endure the severest colds, but if they stand in a moist ground although the Branches be never so well defended they are apt to be destroyed with great Frosts. The cause is, that Water or moisture stagnating about any Plant and a Frost following is apt to mortify it, when a Frost shall scarce injure a dry Plant. It is the same which young and tender Fruits, a Frosty night after a wet day destroys more Fruits, than ten dry Frosts can do.

If you lay saw dust about any Plant it will defend it from the busy *Ants*, who cannot easily pass over the saw dust because

T

cause

*Set tender  
Plants  
dry.*

*To defend  
your  
Plants  
from  
Ants.*



## The Art of Gardening.

cause it is small and loose under them, that they cannot have any sure footing, and so by that means are forced to steer their course another way. Thus may you defend your Wall Trees from *Ants* by laying sawdust about the Roots of them.

Some anoint the stems of their Trees with Tar to prevent the *Ants* from ascending them, but then it is best to bind Paper about the stems and anoint the Paper, for Tar is apt to injure the Bark of your Tree.

Also you may bind about the stem of the tree, Wool about four fingers breadth, which will puzzle the *Ants* to find a way over or through it: be sure to leave the Wool rough, that they may not find a way over the threds you bind it withal.

*Moss to  
destroy.*

Many of your Flower Trees will in some sorts of Land by long standing become mossy which not only defaceth but very much injureth the tree, and it is a sign the Tree dislikes the ground it stands in. To prevent the growing of it, and the encreasing of it whilst it is yet but newly infected, you must remove your tree into better ground more natural to it, or in case you are willing to have it stand in the same place where now it is, then you



you must take it up and alter the ground and enrich it as it ought to be, and then you may replant the tree in the same place. And as the tree thrives and encreaseth in shoots so the moss will decline, the sap being wasted and expended more liberally another way.

But if the Moss hath long continued on the Tree, your best way is after Rain that the Moss be wet and will easily come off, to scrape it off with a knife of Bone or Wood, for in dry Weather it will not come off so well.

Moss is a very great annoyance to Trees and to the ground it self, and is a manifest sign of a defect of the more nourishing juice that is in fruitful Plants or Soyl, it is a spontaneous excrescence, as many other Vegetables are, which made the learned Philosopher *Van Helmont* say, that its Seed distilled from the Heavens, which is no more than if he should have said, that it proceeded from the natural inclination of the matter on which it grew, animated by the Cœlestial influences, which gave it life, but the matter on which it grew gave it form, it varying according to the diversity of the matter, from whence it receives its nourishment; some Moss be-

*Moss is  
great an-  
noyance to  
Trees and  
ground.*



Hook's  
Lampas.

ing hard, some soft, some White, others Green. There is also sweet Moss that grows on *Apple-trees*, and *Poplar-trees*, and the Moss of the *Larix-tree* is sweet in the burning. And although all these Mosses are meer excrescences, yet do they bear seed and encrease, as hath lately been discovered by a learned Virtuoso who by the help of a Microscope hath observed the Seed-cods or seed Vessels of Moss to contain Seeds in them no less wonderful for the greatness of number than the smalness of bulk, which seed Vessels when ripe, he pressing them pretty hard, found that there was a small dust went out of them, which seemed to vanish into the Air; pressing and squeezing others of them upon a black plate, and examining the Powder with a Microscope he found it to be a great heap of exceeding small Seeds, globular and pretty transparent, ninety thousand whereof extended in length take up no more room than the length of one single Barly-corn or a quarter of an Inch. And twelve Millions of the same Seeds laid quadrangularly cover no more of a superficies than one square Inch. And 1382400000, weighing only one grain. Eighty of these superficies of Seeds, make  
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but the thickness of a piece of fine Paper, so that they be laid in a trigonal order, as most round bodies usually place themselves, that is, the round part of the Seed bearing on the concave distance between the Seeds in the neather laying. For the truth of which Observations and narration the same Author appeals to your own sense and reason in case you make use of those Artificial helps he hath for that purpose. But his conclusion is somewhat doubtful that these Seeds being thus small may be carryed in the Air from place to place, even to the tops of the highest Towers or places remote and be there sown, from whence he supposeth proceeds the growth of Moss, and doth not consider that these Seeds being globular and transparent (an argument of their solidity and weightness) are as uncapable of being drawn up into the Air and carryed far as the Seeds of *Pease*, *Raddish*, *Purslain*, *Thyme*, *Marjoram*, &c. For their smalness is rather an impediment to their transportation than a help, and we find that such Seeds that have a Down or Hair with them are more usually carried away with the moving Air, as those of *Thistles*, *Lettuce*, *Carrots*, &c. than those that



are more solid and naked. Nor needeth there any such help as that of seed, to beget Moss, for it may aswell naturally proceed from any place prone for it, as Plants of greater bulk, it being not unusual for *Oak*, *Beech*, *Holly*, *Birch* and such like to grow plentifully out of the ground where other Trees of another kind have been lately felled, from a natural inclination of the Earth, and not from Seeds brought thither by the Air; the Seeds of *Oak*, *Beech*, and *Holly*, being too big for that purpose. The same may be observed in ground inclinable to *Broom*, which being thoroughly eradicated and taken away and the ground plowed, sown and cleansed for several Years, yet laid up for some time will naturally yeild *Broom*: yet those Seeds uncapable of being carryed in the Air. Also if that be true that all Plants are procured of Seed, it may be question'd how so great a quantity of the *Erysimum* or *Iris* should be sown in the Ruins after the late great conflagration in *London*, where it was observed, that more of it grew there than was known to be in all *Europe* besides. This plentiful encrease of this plant which is not a denizen in *England*, and observed  
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*Evelins*  
*Philo:*  
*Discourse*  
*of Earth.*

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not to grow plentifully any where but at Naples, and that in the time of *Fabius Colonna*, could not well be produced of seed, unless you will imagine that the seeds of most Plants pass with the Air over Sea and Land: but the great variety of spontaneous productions of the earth in different years, different seasons, and different ways of tilling the earth, and its various generations also of insects and small Animals, (although these also may be raised of seed and by propagation) is enough to convince the intelligent that moss may be a natural spontaneous production or excrescence out of Trees. Plants, Soil or any thing else capable to bear it, and that it may be occasioned by the defect of a liberal expence of the Sap or Juices another way.

Besides the ordinary ways of killing *Moles* with traps, you may in the Spring of the year when they are most busie and in their work, cast them out alive with a paddle staff made for that purpose, by standing very still whilst they work, for the least motion of the ground disturbs them, they having the want of their sight supplied in their hearing and feeling. They do much mischief in a Garden and the setting

*Moles to  
destroy.*



of traps or digging them out doth also prejudice your Garden: Therefore the best way is, as soon as you perceive that they have made way into your Garden, and that they are retired (as in the latter part of the day they usually do) into the adjacent grounds where they lye more quiet and out of fear, open their common passages and smoke them well with brimstone, Rosin, Pitch or such like combustible matter, with *Onions*, *Garlick*, or such like mixed with it, and close up the holes or passages. This will deterr them from your Garden as I have tryed, and make them take to some other place, or you may take a dead *Mole* and lay in the haunt, and that will operate the same effect.

*Caterpillers to destroy them.*

To prevent the encreases of *Caterpillers* where you find any of their *Pockets* which adhere to the twigs of Trees, in which they lay their eggs all the Winter, (as Silkworms do in their bags) take them off and burn them, for the approaching Sun in the Spring gives life to those pernicious Animals who multiply exceedingly.

But if the year be dry and prone to the generation of Insects, these vermine are apt to be bred in abundance on *Cabbages*, *Cauliflowers*, &c. which to prevent, there

is



is nothing so effectual as watering, for in dripping years they are not so apt to breed as in dry.

To destroy *Caterpillers* on *Trees*, it is said that if you make a Ring of *Tar* towards the bottom of your *Tree*, then hang a bag full of *Pismires* on the *Tree* that they may easily get out, and when they cannot get down by reason of the *Tar*, rather than they will starve for hunger, they will eat up all the *Caterpillars*: which if true it is like the falling upon *Scylla* to avoid *Charibdis*.

*An ingenious way to destroy them.*

Several sorts of *Flowers* are apt to turn white by long standing, or removing into bad ground, as red and purple *Primroses*, *Blew Violets*, *Sweet Williams*, *Gilliflowers*, &c. which proceedeth from scarcity of nourishment, there requiring good nourishment to maintain the dark colours, as in *Tulips* the best and lightest colours are preserved by the more barren earth, when a rich Soil turneth them to a plain dark colour. But always observe, that change of soil preserves variety of colours, so that it be to the degrees of fatter or leaner as you would have your *Flowers* incline to darker or lighter colours.

*Running of Colours.*

It is observed that there is more of white than



Of the variety of colours in Flowers.

than of any other colour in Flowers, and least of green, that being the general colour, although in different shades, of all leaves of Plants, except some few rarities that are red or white leaved, as *red Sage*, *white Marjoram*, *Amaranthus*, and some variegated Plants. In Flowers from white there are all sorts of shades, to the yellow, scarlet, and deepest red, and to the sky-colour and deepest blew with variety of mixtures: it is very rare to see a Plant green, yet there are such, as the *Rose Plantain* being only a Tuft of green Leaves, and the green *Primrose* hath perfectly green leaves in form of a Flower, but mix'd with purple or white leaves. The common *Parrot Tulip* hath a mixture of Green in the Flower, but it seems to be an imperfection in it, yet it constantly blossoms alike. Black is not unusually found in the bottoms of *Tulips* and *Anemones*, but no Flower is known to have a black leaf, save only the *Bull Iris*.

Of Sympathy and Antipathy of Plants.

There is a sympathy and antipathy in Plants. And many fabulous traditions there are concerning them, but this is certainly observed that some Trees will not thrive under the shade or drip of another, as the drip of a *Walnut Tree* and of a *Cherry Tree*

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Tree are injurious to other Trees, because the leaf is bitter, and the drip destroyeth such Trees or Plants that are under it. The like doth the drip of the leaves of the *Artichoke*, and of *Hemp*, which destroyeth all other vegetables near it, those grounds being free from weeds where they grow, from that cause. Some plants will not thrive near others, because they draw alike nourishment, and so rob or deprive one another, as Strawberries and Flowers with fibrous Roots, will not thrive together; but Plants that draw contrary nourishment, will prosper very well near together, as *Rue* and *Lettuce* together, *Onions* and *Savory*, or *Lettuce*, or *Purslain*, will grow very near and kindly together.

There are very strange natures in several plants, that are not by every one observed, which is a kind of perception in them tending themselves to that which nourisheth and preserves them, and eschewing and avoyding that which injureth them. As a *Cucumber* is observed to grow towards Water more than otherwise it would do in case no water were placed neer it: we may constantly observe the natural inclination of the *Hop*, the  
*French*

*Perception  
 in Plants.*



*French Bean* or *Kidney bean*, and the *Periploca* to a *Pole* or *Stick* and how they twist about them, and how ill they thrive without such helps. It is certain that they have some perception of such pole, for you shall easily perceive their tender Buds to bend towards it and at the least touch of it to twist about it. After the same manner doth the *Indian Jassemine* or *Mexican Creeper*, and the *Ivy* tend towards a *Wall* or *Tree* and adhere to it, with love and delight. Several *Fruit Trees* also will flourish better against a *Wall* than single, not because of the warmth or support only, but their affection to a *Wall*; as the *Curran Tree* will grow much fairer and bear better *Fruit* against a *Wall* than any other way supported, although on the *North* side of a *Wall*; the like is observed of some other *Fruits*, as *Plumbs*, *Filberds*, &c. The *Roots* of some *Trees* will run far towards any rich fat or moist place, it exciting such *Roots* which have a natural perception which way the best nourishment is to be obtained. Several *Plants* will also avoid that which they delight not in, as most *Trees* yield or recede from others that shade them, and many *Plants* planted near a *Wall* or other fence decline it and lean

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lean towards the more open Air, be it towards what coast it wil. The turning of a Flower towards the Sun or opening when the Sun appears may be caused from the warmth it receives from it, and the blossoming of the greater *Convolvulus* in the Evening may be caused from cool moist Air at that time, the Flower being so tender that it withereth at the next approach of the Sun. But the inclination of a Plant to, and aversion from any thing, must be caused from a perception in that Plant, of that in which it delights or which it abhors.

## F I N I S.

By reason of the Authors long distance from the Press, faults have happened in the printing, the principal whereof the Reader is desired to amend as followeth.

*now amended.*

Page 8. line, 4. read prefer'd p. 20. l. 20. r. from your house adorn'd with the choicest p. 23. l. 13. dele *Because*, and all the rest of that Paragrayh. p. eadem. l. 29. r. with long dung. p. 26. l. 14. and 17. r. Battell. p. 28. l. 10. t. inches p. 32. l. 8. r. Walks. p. eadem l. 19. r. Walls p. 36. l. 1. r. Oblittations. p. 75. 80. 81. 90. r. *Alatarnus in loco Maternus*. p. 94. l. 10. r. not to have been in England above one hundred Years. p. 132. l. 15. r. transplantation. p. 158. l. 7. r. highly. p. 160. l. 13. r. borders. p. 182. l. 4. r. buds. p. 186. l. 26. r. raw. p. 244. l. 28. dele *that*. p. 262. l. 28. r. imitate p. 267. l. 20. r. the Spring.



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Exotick  
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Fennel  
Fennel  
Fences

Indian

Fish to

Firr T

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Corn Fl

Flesh to

Flower

Flower

Flower

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Lauru  
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Leath  
Leek  
Lemons  
Lettuce  
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flower  
Lilac.  
Lillies  
G  
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Linn T  
Liver  
Loam  
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M  
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Soot to  
Sorrel.  
Sowbr  
Spide-w  
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Spira F  
Springs  
Squalh  
Star F  
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Statue  
Stock  
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Stone  
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