

A profitable booke declaring dyvers approoved remedies, to take out spottes and staines, in silkes, velvets, linnen and woollen clothes. With divers colours how to die velvets and sylkes, linnen and woollen, fustian and threade. Also to dresse leather, and to colour felles. How to gild, grave, sowder and vernishe. And to harden and make softe yron and steele ... / [Leonard Mascall].

Contributors

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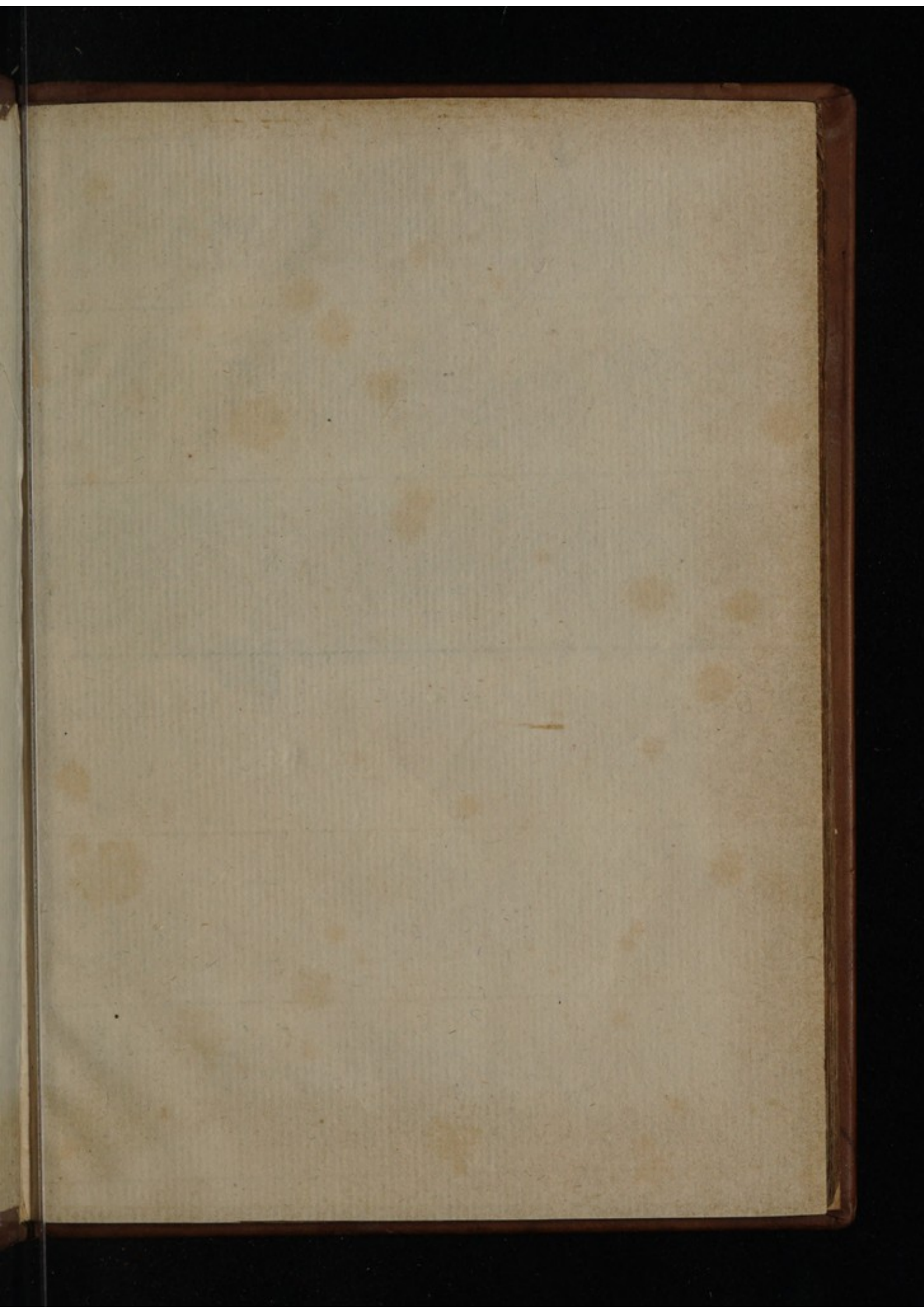
MASCALL -- PROFITABLE BOOKE

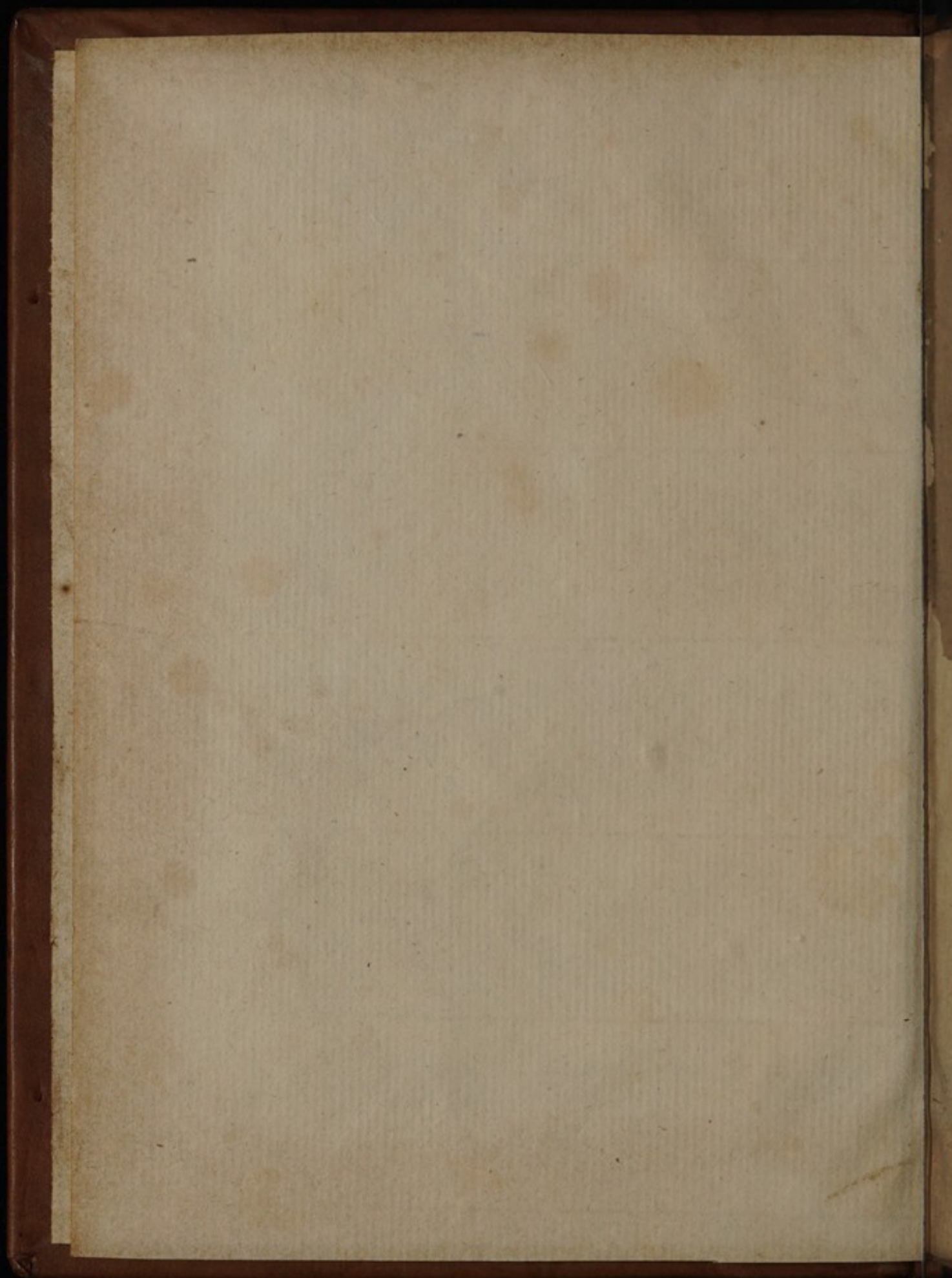






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A profitable booke

declaring dyuers approoued re-

medies, to take out spottes and staines, in Silkes,

Veluets, Linnen and Woollen

Clothes.

With diuers colours how to die Veluets

and Sylkes, Linnen and woollen, Fustian

and Threade

Also to dresse Leather, and to co-

lour Felles. How to Gild, Graue, Sowder, and Ver-

nishe. And to harden and make softe

Yron and Steele.

Very necessarie for all men, specially for those

which

de la ...

To make Cloth whiche hath lost
his colour, to returne vnto his first estate againe.



TAKE OF VNQVEN-
ched lyme two ounces, of Dake
ashes two ounces, of cleare wa-
ter two pound. Then meddle the
well all together, and so let them
rest one quarter of an houre, and
then doe clarifie that water, and
therewith wash your cloth, and it
will returne vnto his first colour
and wax faire againe as befoze.

¶ To wash a scarlet which is greasie.

Take of white tartar well and finely beaten, foure ounces: then boyle it in two pound of sayre water, till the thyrde parte be consumed: then take it from the fyre, and let it coole, and then straine it through a linnen cloth, and when you will vse thereof, make it then milke warme, and wash therewith your cloth. Then hang it to drye, and you shall see it sayre, and returne to his first estate and colour againe.

¶ To make all colours of silkes which be stainde, to come to their first colour againe.

Fyrst take one ounce of vnquenched lyme, and of the ashes of a lyme one ounce, also of ashes of an Dake one ounce and a halfe. Put all these into a basen of cleare water, and meddle them all well together, then heate them a little o-

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... the fyre, and when it is warme, take it of the fyre, and let it clarife a while, so done, then take a sponge and wash your staine spottes therewith, and see that ye weat no other place, but the spottic places onely, and so they will be well againe.

¶ To make a sope to take forth greace or other spots whatloever they be.

Take one pound of roche Allum burned and made into a fine poulder. Also take of the rootes cald flames of Florence (so calde in Dutche) halfe a pound: then beate it into a poulder. Then take a new layde egge, & of white sope two pound and a halfe, then blend your poulder, and your egge and sope altogeather well, and thereof make pellots or bals, and if one egge be not sufficient, then take two, or so much as shall suffice to make your sayd past withall, and when ye shall haue occasion to take forth any spotte, take first of common water and wash your spottes on both sides withall warme, then take of the said pellots, and rubbe all ouer the spottes in the cloth, so done: then washe out the filth with fayre cleare water and if there remayne some part and be not all cleane, wash it againe as afore is mentioned, till it be all cleane, and so shall ye haue it as fayre as before.

¶ Another good way to take forth spottes of greace out of anye woollen or linnen.

Take first a little fayre water, all to weate and rubbe therewith the sayd greacie spottes. Then take a quantite of walkars claye, called Fullars earth, and rubbe a little therewith your spottes all ouer. Then rubbe and chafe your
your

your cloth one vppon another, so done, take a siluer spoone
or such like thing, and scrape out the saide filthie water
and greace, and if then it bee not all cleane foorth,
doe so agayne as befoze is mencioned, and then take a
little warme water, and all to weate the sayd place ther-
with, so done. Then wzing and scrape it foorth as the
other afoze. Being then cleane, let it be dyde and it will
be well.

¶ To take away all spottes on coulered Clothes,
be they linnen or woollen.

If there chaunce by fortune, to fall a droppe of ynke, or
any other staine, vppon any cloth dyed or coloured, or be-
ing cleane white, woollen or linnen. We shall doe as here-
after followeth, that is: take of the iuyce of rawe Lem-
mons, or the iuyce of a great Orange Apple, which hath a
hard pill or skinne, which the Italian call Pommes Da-
dam. Or if ye will take onely the egar or sharpe iuyce
which is in the pouncitron, and straine it foorth thereof,
and with the iuyce yee shall all to rubbe and chafe the
sayde spottye places, and then wash it with luke warme
water, and so then scrape out all the filth thereof, with
some spoone as afozesaide, or wzing it cleane foorth with
your handes. If at the firste tyme peraduenture it bee
not cleane, vse it likewise againe the seconde tyme, as
befoze, and so your cloth will come vnto as good estate
as it was at the fyrt, nor this shall not hurte any colour
thereof.

¶ Another good way to make cleane spottes of greace, out
of all woollen clothes.

Take an hearbe called wood sorrel, or stubwort, which is
greene, & groweth in woods, in bushes & stubs of old trees,

and hath thre small leaues lyke a heart, it tasteth sharpe
like other sozrell. Which hearbe ye shall distill in a lym-
bec, and so reserue the distild water in a glasse very close,
and when you neede to take foorth any spotte of greace,
then take of the distilde water, and rubbe therewith all
ouer the saide spottes. Then chafe your cloth one vppon a-
nother: so done, take a spoone, or some other lyke thing, &
take away the saide filthy water therewith. Then if it be
not all cleane, do it likewise againe as besoze, with the di-
stilde water warmed, and then ye shall see it will doe well,
and shew fayre and cleare as it was at the first.

Another good way to take out spottes out of
clothes with a lye.

Take thre pintes of water, and put therein halfe a
pound of pot ashes, and stirre it well altogether. Let it
so stande the space of foure daies, but yee must in euery day
stirre it thre or foure tymes. So doone, poure foorth
the cleare water from the ashes, and put of galles therein,
then it will wax a greene: but if you will haue it a blacke,
then put a little soote to soake in fayre water, and put
that blacke water therein. With this warmed, ye maie
wash your spottie places in any place of your clothes, and
it will take it foorth fayre and cleane.

To perfume clothes.

Take a violl of Rose-water, in the which ye shall put
eyghtene or twentie graynes of Muske, and Ciuet, with
a little of Ambergreace, then set all on the fire, and when
it begins to waxe warme, take it from the fyre, and let it
coole, and stoppe it close the space of two dayes, and when
yee will perfume your clothes therewith. Set it on the
fyre againe, and being warme, holde your Clothes ouer
it,

it, and so it shall receiue the fume.

To take out spottes out of gownes and
Clothes.

Take the rootes of Limonion, cald in Latine, in English
I take it to be the wild Bete. Take the rootes, and seeth
them in water, and with the same water, wash the spottie
places in your gownes or other garments, and it will bee
cleane.

To make a sope to take out spottes of oyle
and of greace,

Take of good scowring sope, and mixe it finely with
the sifted ashes of a byne, of eche in like portion, then put
thereunto a quantitie of the powder of burnt Allum, and
also of the lyes of wine, beaten into a fine poulder, and put
it thereunto, then mixe and incorporate all these well to-
gether, then make thereof square bryckes, or rounde bails,
and when you shall haue neede to occupie thereof, then
take of warme water, and rubbe and chafe all ouer your
spottie places, and then rubbe thereon with your sope
ball, if then it bee not all cleane, then must yee take your
warme water agayne, and rubbe and chafe it, as yee did
before, and then your sope, and so at length ye shall haue it
cleane forth.

A very good waie to take out spottes of oyle
out of clothes

If yst ye shall take of the oyle of tartar, and rubbe ther
with on the spottie places, and then scrape it away incon-
tinent againe, then ye shall wash it well with luke warme
water, and thre or foure times with colde water, so then

wring it forth, and see if all the spots bee cleane out, if not, wash it againe, so long as you did befoze, and so the cloth shall be as fayre as it was when it was newe, so befoze any spots came on it. There is also another waye, for to take forth spots with this oyle of Tartar, but because I haue not the true knowledge thereof, I will not heere expresse it.

¶ A sope water to take out all spots.

Also, some doe vse to take the water wherein strawberries hath beene sodde, and with that water ye shall weat and soake the spottye places, then take fayre water, and washe out all the filth thereof, so doone: take and hang it in the sunne to drye, and it will bee so cleane as befoze it was.

A way to take out yron moles, out of all linnen cloth.

Take and wring forth so much of the iuyce of the sowrest Orange, or Lemmon that ye can get, then take of the same iuyce, and rubbe the place of the yron mole therewith so let it drye, and euer as it dryeth in, rubbe it ouer again, thus doe often, and euer as you haue weat it, let it rest and drye in the sunne, and at length ye shall see it will bee all forth and cleane.

A way to take out spots in scarlet or veluet, of what colour or sorte so euer it bee, not chaunging the colours.

Take a hearbe (called of the surgions) Saponaria, in frenche called Foullons, in English Soperwort, heat them oft, and take out the iuyce, and put thereof on the spotted, then

then let it so rest the space of one houre if it bee in sommer, but if it be in winter let it rest foure houres, then washe those spottye places with fayre cleane water, so shall it bee cleane to seeme too, but put once agayne the sayde iuice thereon. Also if the scarlet be not dyde in the cleare graine then ye maye put thereunto halfe of blacke sope, with so much of the said iuice, so mingle it together, and then frete it thereon, then let it be washt in luke warme water, and then ye shall see the spots cleane forth. For this way is prouided by experience to be true.

Another waie to take out iron moles out
of linnen.

Take a chaser seeth full of water, then take your cloth and wet it with the iuice of Limons, or sower Oranges, or crabbes, or sower wildings, and then hold it hard to the side of the chaser, and euen as it dyeth in, weat it still againe, till ye see the moll go forth: for all these thinges aforesaid are good, but the iuice of Limons and Oranges are the best. So euer as ye haue weat your spottes with the said iuice, hold it then hard vnto the side of the chaser, as is aforesaid, thus doe vntill it weare awaie, for this waie hath beene proued true often. Or take the boyling iuice of Soxrell, and laie it therein, and rubbe it with the backe of a spoone till it be out.

How to take out oilie spots out of parchment,
or writing paper.

Take a mutton bone and burne it to poulder, then let it be fine beaten, then put of this poulder on both sides of your spots, and let it be prest betweene two hard boordes, the space of two daies, then take it out and yee shall see the oile to be cleane gone, be it either parchment or paper.

B.

Another

An other waye to take out spottes
of paper.

Ye shall take off the water willow boughes, and make
ashes thereof, or ashes of the buds of the vine, with y^e husks
of greene beanes, keepe them in water a day and a night,
then put of the same water on the spots, then presse it, and
let it so remaine for a daye and a night, or as yee shall see
cause, and ye shall see it will doe well.

A very good waye to take out spottes
of clothes.

Take of the rootes of the hearbe called Gentian, in eng-
lish bzome, take and burne of it, and make ashes thereof,
and with the ashes make a lie, and with the said lie, ye shall
wash your spotty clothes, and in a short space it will take
away all the spots therof. Well-prooued.

A good way to take out spots out
of woollen.

Take ashe water, and the powder of Allum together,
then take of the ashes thereof, and laye it vpon the spottye
places on the cloth, and when it is drye: doe sponge it off,
and ye shall see it cleane.

An other against staines in linnen
Cloth.

Firste take your cloth and rubbe it well all ouer with
baye salte, then take an Orange and cutte it in two, and
wring the iuyce thereon, and laye the sayde Orange vpon
the spottes also: and so lette it rest an hower or two,
then

then lay them in a bucke and wash them, and they will be sayre and cleane. Or else ye may laie thereon the iuyce of sorrell and salte, and so put them into the bucke as is afore sayde.

¶ A way to keepe silke from stayning
in the washing.

Take sayre water and seeth it, and being all seething hotte, put thereunto of sope and let it so melt therein, then take it from the fire, and let it coole till it be almost colde, and then at your pleasure yee maye washe therewith your clothes, and it will scoure well, and not stayne your silke, and after ye haue washt them, doe not let them lye weat long together, but laye dye clothes betweene, or else they be in daunger to stayne: and this waye you maye saue both Sylke and Golde without chaunging of their colour.

¶ An other very good way to keepe Golde
from stayning.

Fyrste take your Golde and annoynte it all ouer with good Honye, then sette it in the Sunne, and lette it reste the space of halfe an hower, and now and then lette it bee turnde in the Sunne. Then after take and washe it in the foresayde soppe water, and this way it shall neuer chaunge nor stayne, but keepe colour long.

¶ How to bucke linnen clothes, and to
scoure out all spottes of
greace.

Fyrste yee shall laye all your soule clothes to soke

in colde water, then dye them as you doe a bucke of clothes, and when they are well dyen: then shall you take them all forth of the bucking tubbe, then laye them agayne abroade in the saide tubbe, without any lye, and euer as ye lay them betwixt euery cloth: scrape of chalke thinne all ouer, thus when yee haue all layde them: then put of your lye vnto them, and so chaunge your lye twise or thrice after, then take and washe them forth, and they will be fayre and cleane without greace and very white withall.

¶ A good way to keepe linnen fayre 20. yeares without remoouing, and will not waxe moulye nor rotte.

¶ First take your linnen in marche (so much as you intend to keepe vntremooued) and wash them, and then dye them faire agayne. So laye them vp in your cheastes vntill Day next following: then shall yee take them out and wash them agayne, when you haue so washed them, looke that yee doe then dye them thorowly and well, and then folde them fayre vp, and lay them in your chestes or presses, and yee shall not neede for to remooue them in twentye yeares after, yet they shall continue dye and well.

Howe to sponge woollen clothes.

Take a quart of fayre water, and let it be heate luke warme on the fyre, then take a quantitie of walkers claye and all to crush it therein, then let it stand vntill it be cleare, then poure that water into another pottle, and set it on the fyre agayne, till it begin to seethe: then take of Venice sope, or other good sope, and put thereof into the sayd water, in stirring it well about, then take it of the fyre,
and

and all hotte, sponge or occupie therewith at your pleasure, in making it alwaies warme, euer when you will occupie thereof.

How to make crane colour Fustian to be as fayre canuas as at the first.

First for the prooffe thereof, take a peece of crane colour Fustian, and take also as much of the iuyce of Oranges, or Lemmons as will weat the said peece thorow, then let it rest and dye in, and the said Fustian will be as faire canuas as it was befoze it was coloured, thus if yee can get so much iuyce of Oranges or Lemmons for to serue your purpose, ye maye returne the colour againe, what quantity ye shall thinke good, for this hath bene well prooued.

Thinges to keepe moathes from cloathes, very good in summer and other tymes.

The flying moathes will bee in the beginning of June, and continue till August, but they are chiefly from mid July to midde August. The running moath bee will continue in your cheastes all the yeare long, wynter and summer, which are greate spoylers of geare and other thinges. For the flying moath. Take the powder made of dye Orange Pilles, and the powder of Elecompane rootes mixte togeather, and so cast it among your clothes, also perfume in a chafingdish of coles your clothes therewith. Thus you may vse quarterly, and it will saue them, Or ye may take the powder of Arras, with the powder of Sinoper, also the powder of litrinum cast among clothes saues them from moathes. Cloozmewood or Lauendar small preuaileth. Some vseth oyle of spyke to annoynt their cheastes, and hang it in bladders therein. Some laies

Fol. 12.

the hearbe called Flewort, in Latin Pulicaris, which if yee lay it in your chamber, no flea wil breed, some takes brimstone, & perfumes therewith, but for the running moach I know nothing but strong perfuming, and remoouing your geare.

A way for to take out spots out of wollen clothes.

Take and seeth of common ashes in fayre water, and the powder of Allum together, and then take of the sayde ashes and laie thereof on the spottedes and so rub it in, then let it drye, and when it is thowoly dryed, then take a sponge and sponge it away, as it is declared of the other afoze.

A good way to helpe all staines in thinne silkes and woollen cloth.

Take of good strong vineger, and make it luke warme, then dip a black cloth therein, and then rubbe therewith your staine spots all ouer: so done, then take away so much of the sayd fylch as ye can with a spoone, as for the reste, ye must haue all ready a taylors yron hote, and lay a peece of blacke clothe on the spottedes betwixte the yron and the cloth, and so drye out all the rest of the sayd filch with the hote yron, and then yee shall see it will doe well and bee fayre.

A pleasant water to preserue linnen, or any other thinge, yeilding a pleasaunt sauour a long tyme after.

Take 2. pound of spike flowers, as much of rose leaues, one pound of rose marie, with halfe a pound of mariozam,
as

as much as Balnea, two great handfull of Oygany or penirpall, foure ounces of mace, a quarter of a pound of Arras poulder, let all these well soke together in red Wyne, then put it all into a pot close stoppte that the ayre doe not passe. Let it stande so the space of foure and twentye howers, then let it bee put into a distillitoze, and see that it bee well stoppte, (rounde aboute) with flowze, egges, and water, mixte well togeather, and see that no ayre doe come noz goe out, but at the spoute onely. Upon the end thereof, ye shall hang a fine linnen cloth with a graine of muske or Ambergreace, within it, vppon the which ye shall alwaies let the spoute droppe on, and yee shall see it will be a pure water for that purpose, ye shall also take to the distilling of the foresaide thinges, halfe a pounce of baye leaues, so shall this water be good for the purpose as is afore mentioned.

A good way to washe a shirte, and saue the
Golde or Silke thereon, from
stayning.

Take a newe shirte first of all afore it bee euer wear, and laye the collar and ruffes or silke in pisse somewhat warme halfe an houre space, then take it forth, and then wash him in hot scalding liquer, or seeth him, and it shall neuer staine the silke, If ye haue not pisse, yee maye take groundes of strong beere or ale, and let the silke lye therein, the night before ye doe wash it. And this hath bene oft prooued very true. But alwayes yee must foresee. that ye hang not your clothes in the hotte Sunne, after they bee washte, but laye an other cloth thereon betwixte the Sunne and it, or else the Sunne wyl chaunge boeth Golde, Syluer and Silke. Therefore it is better to hange them in some place of the shade after their washing.

washing, if yee can. Also to sope your water to much, or your cloathes is an occasion to stayne bothe Golde and Sylkes. A verie good waie it is: first to melt your sope in the lycour, and then let it coole, and so to washe your cloathes therein.

Against clothes staine with wine or vineger.

Take of warme Cowe mylke and washe your cloth therein, or washe it in whate and salt, other else as soone as your clothes are so staine by mischaunce of wine or other thinges, doe cast of salte thereon incontinent, so then it will preferue it from stayning, whether it bee woollen or linnen.

A very good way to take foorth wax or rosin dropte on silke, woollen or linnen.

Whereas ye shall haue any such occasion to take foorth Wax or Rosine dropt on any silkes, or other clothes. First ye shall make a pressing yron hotte, or some siluer spoone, with a cole of fyre therein, take eyther of them when they be hotte, and first whereas any Rosin or ware is dropt, yee shall first rubbe on the said droppes of ware or rosin all ouer with the end of a tallowe candle, then take eyther your yron spoone aforesayde, and holde it thereon, laying a peece of browne paper betwixte your yron and your ware, then after yee haue a little so touched it with the heate, (the ware and tallowe will mingle togither, and sooke into the browne paper) then take it off, and annoynt it with the sayde tallowe againe, and then holde your hote yron, or spoone, as before, and thus yee must do, as often as ye shall see cause, vntill it be all cleane foorth. If the ware be dropt thorowe on both sides, vse the one side lyke the other, and so yee

ye shall get it cleane: and looke euer that you shifte your
browne paper to a cleaener place, from the place it was be-
fore touched with ware, and this order keeping, it shall be
all well and cleane. Often proued.

Also per to take out all spotted in wool-
len cloth.

Take of Venice sope a quarter of a pounce, the yolkes
of three egges, of salte finely beaten halfe a spoonefull, of
the iyce of Betes, halfe a spoonefull, or as much as will
make it thicke lyke a paste, then make them into prette
balles, and let them drye out of the heate of the sunne, in
some shadow place, and whensoever ye will occupy there-
of, first weat your spots thorowe with fayre cleare water,
and then take your ball and rubbe it thereon, and wash it
then cleane forth as is afore mentioned of the other, thus
doe, and yee shall see that they shall bee cleane forth, as
before.

Another for the same.

First yee shall take of white sope halfe a pounce, and
thread it very small, then take of the gall of an Oxe, or of
a hee Goate, with some Allum, of eyther of them an ounce,
take the yolkes of two egges, with a quantite of fine sit-
ted ashes, put them altogether in a morter, and beate them,
and when they be well mixt, make them into balles, and
whensoever yee shall neede thereof, take of fayre warme
water, and rubbe the place all ouer therewith, and then
strike with your ball thereon, and then shall yee rubbe
clothe vpon clot h, and washe it then forth, as aforesayde,
and it will be cleane.

Another

Another good way to helpe spots
or staines.

Ye shall first take halfe a gall of an Ore, the older the better, of senygreke made in fine poulber halfe a pounce, a quarter of a pounce of white Sope, a gallon of stronge common lye, mixe altogether therein, and set them on the fyre, and seeth them softelye till they bee halfe wasted, and whensoever ye will occupie thereof, heate it warme, and wash your spots therewith, in washing it often with faire colde water, and it shall doe well.

How to take out spots of white filkes, or
other coloures.

Take of the best and strongest Aquauite, thre pintes, with the which you shall wete your spottes, & take a newe layde egge and beate it, and rubbe thereon your said spots, and so let it in the sunne and let it drye in: this done, washe it then with a fresh and cleare water, and then wring or presse the said water forth, or presse it betwixt your hands, and so they shall be cleane, as for cloth in graine, yee maie wash the spots well with Allum water, then rubbe cloth vnto cloth, and so wash it forth with cleare water againe, and it will be well. If it be not at the first all cleane out: doe so likewise againe, so long as ye shall see cause of any spots remaine, and so they shall be well.

A proued way how to take out oylie spottes
out of cloth.

Take of the oyle of Tartar, so much as will couer your
other staines, and put it thereon, and straighte waye take
it off againe, and washe it then well with sayze warme
water.

water. Then take cold water also and wash it 3. or foure tymes ouer, after that, in chaunging it still with newe water, this done, you shall see it will be as sayze as the rest, and as it was befoze.

Another way to take out all waxe, Rosin or pitche, on Silkes or other clothes.

First take of tallowe or other greace (be it salt or fresh) and melte it, and beeing seething hotte, put therof on your sayde spottes of ware, Rosine, or pitche, then take of hotte licour, and holde your sayd spottes therein, & then rub cloth vpon cloth, betwixt your hands. So done, then wzing forth the sayd greaspe water, and if ye then see it will not bee all cleane forth, serue it so agayne, annoynting your sayde spottes with tallowe or greace, and then doe cleane forth the greaspe water as befoze is mentioned. For this waye hath beene well and often proued, and doeth helpe.

To take forth greace out of Silke, Veluet, Mo- cadore others.

Take and heate water and put a hand full of cleane feathers therein, & then let it coole til ye may suffer your hand therein, and lay your silke abroad, and take your feathers & rub all ouer the spot, then rub it ouer with Castile Sope, and then with your feathers againe all vp & downe, weting them twise or thise, and so rub it vp & downe, then wzing it a little & dry it in the sunne or wind: but if it be Veluet, after yee haue so rubbe it: the veluet will lye, then must yee take a cloth of woollen, & heat it, then annoint it light ouer with butter, & chafe your cloth together, to rub in the butter, then heat it a little, & rub your veluet vp & downe therewith, & it will then rise againe, and be as sayze as befoze.

To take out spottes of cloth.

They take the straight bones in sheepes feete that are sodde, and dye them and make them into poulder, with the which you shall lay on the spotted cloth, layde in the Sunne, and rubbe this poulder thereon tyll it goe all foozth.

To dye wooll red.

We shall put too foure pounce of woollen yearne, tenne ounces of Allum, and seeth it with bzanne water so much as ye shall thinke good, then take your yearne out, and put that water out of the kettle, and put therein agayne threepartes of fresh bzanne water, and one parte of fayre cleare water, then warme it a little on the fire, then put therein two pounce of grening weede, and let it so warme a while, then put therin your wooll, and stirre it well with a sticke the space of thre howers, but let it not seeth in any wise, so done, then take out your wooll agayne, and put it agayne into your Kettle, and put thereto halfe a glassefull of vnleakte lyme, with as much of common ashes, and thereto put your wooll agayne, and stirre it with a stasse fire oz seven Paternoster whiles, than take foozth your wooll, and yee shall haue a fayre colour. But if yee will haue it yet a more sanguine coloure, then must you putte into your Kettle halfe a little glasse full of more lyme, and a little glasse full of common ashes, and thereto put your wooll agayne, and stirre it well still foure oz five Paternoster whiles, then take foozth your wooll and washe it, so ye shall haue a very fayre colour.

Another way to make wooll a fayre red.

¶ Then as your wooll is made red after the first maner then shall yee cast awaye that licour that is in the Kettle, and put into it fayre water, and put thereto the cruse full of fayre made lye of common ashes, and therein put also an ounce of Allum, then as soone as it beginneth to seeth, put therein your wooll, and stirre it well therein foure or fve paternoster whiles, then take it forth and washe it, and so you shall haue your wooll a fayre colour. This maner of dying is after the order of Dozneke in Flaunders.

To dye a fayre yealowc.

If yee will dye yealow with woode, take off the wood leaues, and cut off the rootes, then cut them in peeces, and lay them to soke in lye of common ashes thre houres, then seethe it a quarter of an hower, till you thinke it meetely well sodde. Then put therein two quartes of water, and as much stale Urine of fire daies olde at the leaste, so let them seeth together a little, then cleanse it thoroowe a fine, and then put vnto the same agayne, of lye and Urine as aforesayde. Then straine it thoroowe a fayre cloth and seeth it, and to two pounce of wood take two pounce of Verdegreace, with the lye that ye haue sodde, your woad and all putting them in your sayde colour, which must bee medled and well stirred all together. Then shall yee boyle it all a little, and it shall be well.

Another colour to dye a yealow with woode.

Take and set a pot with water on the fire, and make it warme, then take ashes made of Oake woode, and cast thereof into the pot with water, and being warme take it from the fyre, and stirre it well. Then couer it close til the

next day. Then poure the clearest lye therof thorow a cloth softly into another vessel or patine, then take of good wood, & breake the rootes off, and then cut them small, then wash & reuce them in cold water, & then put them into the lye, & there let them soke a night, then take and seethe it, till the halfe be consumed, and when it is well sodde, then all hotte cleuse it thorowe a sayre cloth, then must ye haue of verdegreace well and finely beaten into poulder, & blend thereof with a spoone amongst your other stuffe, this must be done incontinent thereupon, and also your lye thereunto must be very strong made.

Howe to dye linnen or thread red.

As when ye will dye anye Linnen or threade redde, yee shall take one pound of samfleure, and let it soke halfe a day and a nighte in water milke warme, then put it into a thicke bagge or sacke, and therein washe and reuce it in the riuer tyll the bagge bee therewith redde, then wring the water well forth, and so take out your Samfleure, and spreade it vppon a sayre boorde or Table and make (as it were) a little thinne bedde thereof, then strawe thereon of white ashes, in making beddes of your Samfleure, and when yee haue strowde them with ashes, yee shall take to one pounce of Samfleure, a quarter of a pound of ashes, which ashes must bee burnt and made of the lyes of white Wine, and it must bee well chaste betwixte your handes, the one against the other, then make therof a small heape, and so let it rest the space of fīue houres. Then shall yee rubbe it againe till it ware warme, then haue readye a sayre basen, and sette it vnder your stuffe, that it may runne therein, and also wring out the iuyce thereof into the sayde Basen. Then cast therein a pinte of wine vyneger that is very good, then yee maye putte therein a pounce of yearne, and it shall doe well. But

to dye your Linnen cloth, yee shall put it in before your yearne or Fustian. Then lay it therein a day and a night, then take forth your linnen or yearne, and then put therein a gallon of ashes of the Ashe tree, and thereunto your linnen, yearne, or Fustian, and so let it lye therein halfe an houre, then take it once and wring it as well as you can, then by and by hang it in the sunne, then take that water that ye soaked first your Samfleur in, and straine it (as aforesayde) into the bason vnto the other colour, then put therein a glassfull of Vineger, and then you may put therein your yearne, fustion, or linnen cloth, and doe therunto as is aforesayd.

Another way to dye Linnen in a fayre rose
redde colour.

To dye a fayre redde rose colour of Linnen, yee shall take to euery 3. yardes and a halfe of Linnen, halfe a li. of good gal nots, and seeth them in fayre water all whole, the space of 2. houres, then take it from the fyre, & poure that water into another vessell or fatte, then put your linnen into the sayde water, and let it soke therein the space of foure houres, then take it forth and wring the licoure wel forth. Then take fayre water in a kettle, and set it on the fyre, and put therein a quarter of a pounce of Allum, and when it is readye to seethe, take it from the fyre, and put your cloth therein as soone as yee haue wrong and straine out your galles aforesayde, but let it dye a night before firste, and then curne it well therein the space of a quarter of an houre. So take it forth and wring it well, and then seeth two ounces of Brasill in fayre water, the space of two houres, then take that from the fire, and hang another kettle ouer the fire, and putte therein grays water, so warme it a little, and cast therein two li. of grening weede, then put your linnen cloth therein, and
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looke that no Allum haue beene in that water. Then let it lye therein halfe an houre, and stirre it well with a staffe and then aake out thereof the sayd linnen, ye may then cast away the same liquoz and washe your kettle cleane, and put therein of the clearest brasill water and let it well colour therein. Then take your linnen and wash it well in fayre water, then take of fayre water in a panne, with a little Allum and so seeth them both together: and therein seeth your Lynnen cloth five or sixe paternoster whiles. Then take out the sayd cloth and wring it well, and after that put the sayd cloth into the kettle of brasill water, and therein ye shall turne and wind it well, the space of a quarter of an houre, then take it forth and wring it a little, and likewise you shall doe with the dying of the Fustian, but vnto your Fustian you must haue two partes more of Merdigreace and Allum, and that your Fustian must lye therein halfe a day and a night, then wring it forth, and let it dye, then after yee maye raple his cotton with cardes meete for that purpose, if yee will haue your Linnen more fayrer, cast in the Kettle with your sayde brasill, some lye made of white Lyme, then put your cloth therein, then turne and wind it therein the space of foure paternosters, and then take it forth thereof and wring it well, and so hang it vp to dye.

How to make your branne water, wherewithall you shall vse to dye red.

Yee shall take a hatte full of wheate branne, and take so much water as will go into the small kettles, so let it haue a welling or two on the fire. Then poure it into a fatte, then take two other kettle fuls of water and warme it, and put it therein also, but first stirre it well, and so couer it well. The first day you must stirre it often, and then it will be the better, then shall ye let it stande foure or fyue dayes

vayes till it waxe the riper, and which will bee the better
for your purpose, and then yee may occupie as you shall see
cause.

For an yron moll in Linnen.

To take forth any yron moll in linnen cloth, take a
chafing-dish with coles, then couer the coles with a pew-
ter dish so let it bee hotte. Then lay your linnen theron
where the moll is, and with a Limon, or an Orange, but
the Limon is better, to rubbe your moll therewith, and
still as it dyeth in, laye the iuyce theron, and still rubbe it
so, till it be all cleane, and this waye will haue it all out.
Dit pzoqued.

To dye silke quoyues in a red

Ye shall first laye your silke in Allum water, and let it
seeth therein, and with branne water also halfe an houre
long both togeather, then take a little grening weede, and
the lyke of branne water, and let it bee made hotte, and put
the silke therein, but let it not seeth, but take it oute and
rence it in lye, and then in water, and then it will be faire
and well.

To dye silke in a sanguine colour.

Ye shall dye silke in a sanguine, as ye must in all sorts
take Allum as ye doe grening weede, then must yee take
a little sayre water, with a little brasill, and seeth them
together. Then take parte thereof, and seeth the silke ther-
in, and as that is taken out, so take an other, and then the
thyrdo time, then put it in lye, and so clense it, as is afore-
sayde.

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To dye silke blue.

If ye will dye blue silke, that silke must then bee white, which ye must first soke in water, and then wring it forth: then ye shall put it in your blue dye, and there yee maye make it with a light colour or darke as ye please.

A fayre greene to dye.

If ye will haue a fayre greene, take a little bzanne water and a little Allum, and seethe them together, and when the Allum is molten, put your silke therein, and let it seeth the fourth part of an houre. Then take againe a little bzanne water, and a little wood, and put it therein also, tyll that it waxe a fayre darke yealow. If ye will haue it moze yealower, then put it in the blew dye, wherein ye may make it light or darke as you please.

To dye blacke silke.

Take to one pound of silke, 12. gall nots, and beat them to powder, then seeth the silke with the galls in fayre water, a good halfe houre long, then take of the blacke dye, and therein seeth it another halfe houre, then take it forth, and let it be colde, and then put it againe into the blacke dye, and let it there seeth another halfe houre, if then it be not fayre: let it seeth therein so long till it waxe a fayre blacke, then sponge it in the water, and so let it dye.

A Purple silke to dye.

When ye will die a purple silk, ye shal take to one pound of silke, 4. ounces of Allum, and seeth the Allum in common water, & lay the silke therein, and let it so lye foure houres

houres. Then take to euery pound of silke, two pounde of purple colour, & seeth it together as hereafter is witten, which is, ye shall take halfe pisse, & halfe water together, & seeth it therin till it ware cleare and faire, and the spooge it in fayre water. Also to eche pounde of silke it behooueth to haue foure ounces of Allum. Also for redde silke to dye with crap dye, so calde in dutche, which yee shall dye with foure pounde of Allum, and also ye shall dye sanguine silk with Allum, and also yealow ye shall dye with Allum.

To make a good blacke dye.

Take a pounde of galls and fourth parte of coperas, and seethe these together, then put the cloth therein, and stirre it well about, then hang it to dye, then prepare your dye as thus, take a good great fat, and put therein a fourth part of Rye meale, and halfe so much of swarfe (of the grindstone, and so much of elder barke, and in like of olde yron, and the scales of yron, as it comes of by the hammer beating, stir this all well together, and so let it stand thre daies or euer ye put your cloth therein, and at each time let your linnen dye afoze ye put it therein.

To dye a greene.

Take a light blue colour and put it into Allum water two houres long, then hang it to the time, there as the wind may dye it, and then put it into the foresaid woode and so ble it as it is afoze declared.

To dye a carnation.

Take Purper that is dye, and laye it to soke a night in pisse, then take your cloth that is allumde, and dye & put it

it therein, but ye shall seeth the purpur twice in faire water, then let another fatte by the fyre, and let it seeth, and therein ye shall first put your cloth, and then all weat, put it into your dye, till it be sayze ynough.

To make a red carnation.

To make a redde carnation dye, ye must dye your white cloth, linnen oz woolle, oz silke yearne, to doe it well, yee shall gall and Allum it well. Ye must take an hearbe called Foli in Dutche, that shall ye finde by ditches, & banks, take a pound thereof that is dye, this is in tuftes, and it is hote like wee ashes, and carnation in sight, therewith men doe make a red carnation woollen cloth, with the greene oz white, oz of silke, and if anpe carnation haue lost his colour, oz if anpe carnation haue losse his dye, with that yee shall dye it againe, that it shall not leese his colour, and to foure elles of cloth, ye shall take a pound of gruis, oz of that hearbe afoze named, which ye shall beate to poulder, Then shall yee take lye make of Dake ashes, mire a parte therewith, and another parte of cleare pisse cleare and old, of eche like much. If yee will haue a light dye, take pisse newe made, and of the foresayde lye, in like much & therewith yee shall dye, with the foresaid poulder put therein, & as it is sod, put in that which ye woulde dye, and seethe it two houres long, and then let it dye.

To dye Linnen.

Yee shall first take to one stone of flockes five pound of sope ashes (which are calde in Dutche Wee asleen) of the best, with sixteene gallens of water, seeth it togeather an houre long, and then let cleare one night, then gentlye poure of the vppermoste thereof, and seeth your flockes therein one houre long, and then prooue if your flockes

oz silke be ynough sodde, also take a litle of your Flockes in your hand, and thrust it harde to a redde cloth, also put it in your mouth, and if it goe by and by a parte lyke a ripe apple, then it is ynough sodde. Then sponge it in faize water, and then putte in branne water, according to the quantite of woollen cloth, and seeth youre Flockes therein, then take it out thereof, and take brasill and put it in water according to the quantitie of the Linnen, that is to eche elle of cloth foure ounces of Brasill, and as the brasill hath sod a while, then straine the brasill thozow a cloth, and put it againe into your Kettle, and your Flockes also, and let them seeth, then take a Ladle full of lye and put it therein, thus shall ye make it as hye as you will, and if yee will haue it moze higher, then put more lye therein, also for thzee pounce of Flockes, take foure ounces of Allum, and seeth them togeather, and if yee will seeth dyde Flockes, take lye of Sope ashes, as befoze it is witten, which you will seeth with Sope ashes, then scour it, and let it dye.

To dye cloth with facet
Woode.

As ye will dye cloth with faucet Woode, ye must make your lye with sope ashes of Denmarke, and rayne water, which ye shall let stande thzee houres long, then seeth it, but the Woode must bee first sod in the lye, and when it is sodde, let it be cooled with other colder and sharper lye, with the last lye yee shall put to one pounce of yearne, and a great peece of Allum, and put it therein. Then shall yee put that dye into a fayze kettle or fatte, then take two ounces of spanish greene, which ye shall soke therein two or thzee houres long, then tolle and push it vp and downe twise or thrise, and wring it, and with colder lye put therein, and tolle it with a dishe too and froe. Also another manner

is, take a dish full of vnslacked lime, and quench it with water, then take two dish full of wood ashes, and mix it with the chalke all together well, and thereof yee shall make a good strong lie, and let it thre or foure times run through the tubbe, then take the faucet wood, and hew or cut it in small peeces, and cast it into the lie, and let it seeth therein halfe an houre long. Then put therein sope ashes, and let it seeth another good halfe houre, take it then off, and put thereto spanish greene, and let it boile twice or thre, and then sponge it, also with thre pound of faucet wood, it behoueth to haue two ounces of spanish greene, & as the cloth haue bene in the first lico, if then it be too broune or too yealow, then put thereto of wine ashes, & a little allum.

To die woollen cloth sanguine.

To die woollen cloth faire, yee shall first seeth good rie meale in faire water, and then put it in a faire tubbe or pan. Then cast faire water thereon, and let it so stande thre daies to cleare, then take of that water, and put therein two ounces of allum, to an elle of cloth, and let it seeth two houres long, then let it hang and coole without wringing. Then put that water forth of the vessell with the meale, and put therein a pound of the best grening weede, and heate that also, but let it not seeth, then put your cloth therein, & tolle it well with your hands without seething, and take it forth and put it in a panne with faire lie, and let it lie therein, and so let it drie, and it will be a red. If yee will make fairer, you must haue of brasill, take an ounce of Allum and allum it as aforesaid in another water, then seeth two ounces of allum with that brasill, in bpanne water made, and as the brasill haue sodden a while therein, so put therein of cold water, then take so much thereof out as will weat your cloth in, and stirre it well therein, then shall ye take of other dis, vntill the time that
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it hath sufficient ynough, if yee will haue the same a sanguine, laye it in sayre lye of Sope ashes, and there it will haue a faire sanguine die.

To die woollen yearne, or cloth.

To make this dye, put two foure pounce of woollen yearne, or cloth, two pounce of woad. Put this woad in a Kettle, and cast therein of sayre water, then cast agayne halfe a tin dish full of ashes out of the fyre, and as soone as it seethes, put your woollen yarne therein, then let it seeth eyght or nyne pater noster whiles long, then put your yarne forth, and put a little water in, out of the kettle, and then a few ashes out of the hearth, and put your woollen yarne agayne therein: and so let it seeth a good while, if it be a browne blue, it shall be a darke greene, and if it bee white woollen yearne, so it shal be a yealow colour.

Againe to die woollen yearne.

As you will die woollen yearne that is greene, your yearne you shall first seeth in branne water, which is to vnderstand, to foure pound of yearne, ten ounces of Allum, and let it seeth two houres, then wring that out, and put it in the dye thus made. To foure pound of woollen yearne take two pound of woad, and seeth the woad well with hearth ashes, in lee made a daie before, so let it seeth the fourth part of an houre, then put the cleare into a cleane fatte or vessell, then take the fourth part of an ounce of spanish greene called verdigreace, poulder it well and cast it therein, and stirre it with a sticke or staffe, then put in your yearne, so turne and tolle it therein the fourth part of an houre, and then let it dye. If it bee not faire ynough, then put it in agayne, and doe as is said before,
also

Fol. 30.

also as yee would dye blue woollen yearne, yet shall put it first in warme water, then wzing it foorth and dye it blue, as it is aforesaid.

To dye with brasill as redde as a Rose.

Take sixe elles of Linnen, and thereto halfe a pounce of beaten galles, of the best: then put it in a fayze water, and let it seeth about two houres, but the galles should rather be all whole, and when they are sodde, set it from the fyze, and put it gently in another kettle oz fatte, and then putte your linnen therein, as hotte as you may handle it, and stir it therein foure houres long, that done, then wzing it well foorth, and hang it to drye. Then take foure ounces of Alum, and seeth it with water, and when it is sodde, take it from the fyze, and put your galled cloth therein, as hotte as yee may suffer it, the space of a quarter of an houre, then take your bzanne water and put thereof in a kettle, and as it is warme, put therein two pounce of grening weede, let it the first tyme soke well therin, and let it be well and hot, but not seeth, and then put your cloth therein, and stirre & handle it well at the first with your handes, nye halfe an hower with a staffe tost well all about, and well handled in the dye, and then yee shall take youre cloth and spoonge it in water and wash it cleane. Then take a little Allum, and seeth it with water, then shall yee haue two ounces of Brasill sodde in light water, and putte your cloth therein five Paternosters long. Then shall yee haue two ounces of Brasill sodde in light water, and put your cloth therein, then handle and stirre it well therein and stir it well about the space of a quarter of an houre and wzing it not to soze, then dye it. Then if it be not dye ynough, then weat it as befoze is sayde.

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How to make a greene water.

Take nie halfe an ounce of Verdigreace, and crushe it well in a wooden dishe, then put thereto the yolke of an egge, and two blades of saffron, then take of the leaues of spurge half a handfull, and beat them in a mortar and thereto cast a good glasse full of vineger, and straine it throzow a cloth. Then take of this stiffe, and put thercof in a dishe with the Verdigreace and stir it well together, and make it thinne, that it may be the better to die, oz to worke with a penfill, oz as ye shall seeme best.

To die faire Linnen with brafill.

We shall take faire water, and heate it ouer the fire, then shall ye haue the poulder of galls, and put thereof into the Kettle ouer the fire, and so let it seeth a quarter of an hower: then take it from the fire, and take another vessell and put therein so much cold water, as of the other in the Kettle, and put that hote in the kettle thereunto. Then put your cloth therein, and stirre it well vp and downe therein, and as you haue done so a while, then let it lie therein foure houres long in that gall water, then take your panne againe with other faire water, and set it ouer the fyre, and make it hote, then put of Allum therein to the panne ouer the fyre, and as that water is hote, and the Allum melted, yee must then haue another vessell oz fatte with colde water, as muche as of the other hote water, and put the allum water therein, then put your cloth therein, and stirre it as it is aforesaid, and so lette it then lie therein foure houres long, when you haue so done, then yee shall wring it out and hang it to drie, oz to drie in the aire, but let it not be too drie. Then shall ye take your brafill made in poulder, and put it in the panne, and so lette

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it seeth therein the quarter of an houre, and before that
 bzasil doe seeth, ye shall take wheat flower, and put there-
 in, and mix it altogether well in a dish, and put it into the
 Kettle before it do seeth: thus done let it seeth, and as it
 hath sod, then take forth so much of the bzasil, as yee maye
 put in your cloth, and stir it well about as is afoze declared
 thus done, let your cloth rest therein a good while, then
 wring it forth and hang it to drie, and as it is drie, ye shall
 take that licoz that it hath laine in, and put that away, then
 take againe so much bzasil as before, & put that cloth ther-
 in againe, and then hang it to drie, and as it is drie, then
 put it in another licoz, & hang it againe to drie, and then it
 is ful done. And to know the quantitie of waight which is
 to euery elle of linnen cloth, ye shal take a loot of gall pou-
 der, so called in dutch, and as much of Allum, and to ech ell
 of cloth, one ounce of bzasil.

To make a faire yealow.

To make a yealow that ye may worke with oile or water
 ye shall take woad, so much as ye shal please, and let it stā
 in steepe a night and a day in lye made with sope ashes, and
 when it is thus steeped, then shall ye seeth it, and couer it
 close so long as it seeth, thus done then set it from the fire,
 and put that licoz into another pan, & so straine it thozow a
 cleane cloth, then take the pan and poure the thinnest aboue
 off, so long til ye see the die vndercome withall, then take
 the foresaid cloth, and straine it againe thozow it into ano-
 ther pan, so long as ye thinke the substance of the woad to
 tarrie in the cloth, til yee thinke that that water is thin y-
 nough to straine, and then ye may vse it.

A faire linnen cloth to die blue.

For to die a fayre blue, ye shall take a pan of faire wa-
 ter,

ter, & hang it ouer the fire, and let it be seething hote, then must ye haue a vessell of halfe an Aine, so cald in Dutch, or thereabout, & as your licoz is hote put thereto 3 pounde of wheat bran, & 3 pound of ashes, & a pound of grening weede, stir al this in the pan, and let it seeth iii. or iiij. pater nosters long, the take of flouay vnder halfe a pound, & soke it in fair water, & let it there rest a quarter of an houre couered, then take your cleane vessell of Aine, & therein put your saked flouay, then take the hote licoz ouer the fire, but let it coole or ye put it into the fatte, then put it in and stir it well, and so couer it well and close, and let it so rest six hours long, then vncouer it and stir it well about a good while, then couer it close againe, and let it rest other six houres, then vncouer it and stirre it as befoze, and so stop it againe, then vncouer it within two or thzee houres, and looke if the die beginne to come, or beginne to wax greene, if they doe not, let it rest longer, and stop it close if ye see it bee come, put therein some of your cloth that yee would die, and turne it well therein, then wzing it out and let it rest two or thzee houres: then put in againe your cloth, and vse it as aforesaid, and so stop it well againe, and let it rest so two or thzee houres, till ye shall see the die begin to come, and the flower to lie aboue, and to euery going that ye go thereto, see if the colour be greene ynough, or wax greene, and when yee shall see it so, ye shall scum off the flower with a dish, and then put your cloth againe therein, stirre it well and wzing it forth, then stoppe it againe well, and thus ye must colour thzee or foure times a day. Then must ye take the die in the vessell, and hang it ouer the fire againe, and there let it be hote, and put therein two pound and a halfe of ashes. Then put it in the fat, and so let it rest, but stoppe it well and close, so let it rest a night, but stirre it once in the night with a staffe, and see in the morning if the die be come, as is aforesaid, and so put in your cloth againe, but lette it not lye therein too long, that it coole not the die, and as you

haue thus died it foure times. Then shall ye make it hote againe ouer the fire, putting therein two pound of pot ashes, and so let rest all a night, and stirre one in the nighte as aforesaid, and stoppe it close, and when ye go thereto, see if the die be come, if it be come, ye maie die, as befoze, that ye think good, and when your colour waxeth a faire green, then is your die good and ripe, and the flowers wil lie faire aboue, but as it beginnes to wax yelow, then it is too ripe. Then must ye put in moze cloth.

How to die a faire linnen with brasill.

Ye shall take so much linnen as ye will, and to euerie elle of linnen, take two ounces of gall nottes, or xii. nottes, these nots ye shall breake in two or thre peeces, then put them in a Kettle with water, and let them seeth together, and as they haue sod a quarter of an houre or lesse, take it from the fire, and take your cloth sooth thereof, and let it a little soke by, but let it not drie. As ye haue thus sod it, ye shall take another Kettle with faire water, and put it ouer the fire, and make it seething hote. Then shall ye to euerie elle of cloth take two ounces of allum, which pee shall put in the said water, and as it is melted, pee shall take the foresaid cloth, and put it into the said Kettle to the Allum, and let it seeth together a quarter of an houre, then take it sooth of the Kettle and wzing it a little, then hang it to drie a little, but not too much. Then must pee haue your sodden brasill as thus: ye shall take lie made of wood ashes, but see it be not too strong. And thereof so much put in your pan as will make your cloth weat, then put your brasill in the panne with the lie, and so let it seeth a quarter of an houre, then sette it from the fire, and haue readie an earthen panne, and by and by, put your lycor & brasill therein, then shall pee put your foresaid cloth therein.

therein, stirre and turne it well therein, but see that it bee not too drie of the said Allum that it hath bene sodde with. Also to foure gallons of lie, yee shall put lesse then halfe a pound of brasill powder small beaten.

To make a faire brasill colour, to worke on
cloth or paper.

We shall take a faire pottle, and put therein a pounce of chalke small broken, and put thereto a pottle of good Vineger, and stirre it well together. Then let it stand a daye and a night then poure the clearest into a faire panne, and see that no chalke go therein, then take two parts of the said lie, and put it in a faire pot, and set it ouer the fyre, and seeth it fure pater noster long, then take it from the fyre, and put the lycor into a faire panne, and ye shall put thereto fourteene ounces of Allum, and stir it well with a staffe, then take the other part, & put it to the said brasill wood, the which ye haue changed, and let it there seeth, as afoze said, and putte that lycor into another panne, and put thereto thirteene ounces of Allum, which ye shall stirre so well as afoze said, and when ye haue tost it long, put it then to the other, and stirre it well, as ye will haue it drie take a pan and fill it full & set it in the wind eight daies or more, and there let it drie, and as it is faire, ye may worke therewith.

Blue Buckeram to die.

Take three pound of gruis of Turwin, so calde in dutche, and a pound of Mede, a pound of Flozay, and to three pound of Sope ashes, take ix. quartes of water, first ye shall put pour Flozay into a faire fatte, and put thereto tenne quartes of water, and stirre it well altogether, this must be so hote that ye cannot suffer your hand therein,

in in the other water ye shall put the gruis, with the ashes and Bede, and that put together, and so stande, which you shall stir twelue houres long, and waxing a blue, so ye may worke with it. If it be not blue inough, so let it stand covered twentie houres long.

A red to die with crampmede.

Take a pound of Crampmede to three elles of Linnen, and take a faire pot with water, and set it by the fire till it be readie to seeth, and put therein two ounces of gals, and let them so seeth together, and then put your linnen therein, and take it sometimes out and in, and at each time wring it well out, then take a faire pot with faire water, and make it seething hote, then put therein an ounce of Allum, and so let it seeth well, then put your cloth in as aforesaid. Then take another pot of water, and let it seeth therein till it be red, then take that cloth out, and cleanse it al about with a cloth. If ye will haue it more darker then must yee haue a lie of vnquenched chalke, with the like die: men with woad ashes do make a redie die of colour, without vnquenched lime, in hauing woad ashes in steede of vnquenched lime.

To die blacke Veluet or linnen.

Take of gals and coperas, & seeth them together, and put your linnen therein, if it be gray silke, then take of elder barkes, and old yron, and put all in a hearing barrell or vessell. Then take gruis or swarfe, this shall bee a thirde deile of the fat, the other two parts shall be faire water, so let it stand three weekes long, and so stirre it often well about, and put your gray silke therein, and as this is done, so shall ye hang it to drie, and so put it in againe, so often til that it be blacke inough. In steede of galles ye may take barkes of oke, and thomakers blacke.

To

To make graie Florie.

Take floze and lay in steepe 24 houres, then wzing it out thozow a cloth, then take lie of wine ashes, and spread it 2 houres long on a faire table, then take the said lie, and put it in three vessels, and take the floze and put into one of the vessels. Then put it well soozth, then put that floze in the least vessell, then so in the middelt, and in the first, but ere ye put the linnen therein, put in vineger & wzing it out.

To die silke red.

Take of good wood ashes, & make a good lie thereof, & put therein of willow oz facet wood, & barbery wood, oz yelow wood, and steepe them therein an houre, then seeth a quarter of an houre, then put your cloth therein, and put in a little spanish greene, but that cloth ye must first allum it.

To make a blacke water to die with.

A blacke water to die all maner of silke clothes, ye shall take halfe a pound of gall nots, and put thereto somewhat lesse then a pottle of water, and an ounce of swarke of the grindstone, and a good deale of the filings of yron, make it seeth; and put thereto a quarter of a pound of Coperas, and seeth all to the halfe, and put therein a pound of gum arabic, then seeth it till the gum be melted. Then set it from the fire, the older it is the better it will be.

To make a thicke water to worke on

yealow silke.

Take a pottle of the best vernice ye can, & put in an ounce of bymstone in fine powder, & halfe an ounce of Camphier, then

then seeth it a while, and let it coole, then straine it thorow a cloth, also with this ye shall worke thinne, and this must be sod with the fourth part of gum Arabic.

To worke on yealow silke, white, graie, or azure colour.

Take a pottle of Conduic water, and a fourth part of Arsenike in poulder, and two lable full of woad, cutte the woad in small peeces, and make it seeth as hering, that is, softlie, then set it from the fire, and put therein so much of graines, as ye put in porrage, and herein also yee shall put in of gumme of Arabie, so much as you shall seeme good.

To make a red water.

Take a pottle of faire water, and a fourth part of gumme, and halfe a pot of faucet woad (so cald in Dutch) and then seeth it together till thzee pintes bee consumed, then set it from the fire, and herein yee shall put halfe an ounce of spanish greene, and then put in also of graines, so much as ye doe in seasoning your pott age.

To make a red with brasill.

Take your Linnen to one pound, take a fourth part of Allum, but first seeth your Allum, then laie your linnen therein the space of two houres, then take of beaten gals, and put water thereto, then lay your linnen therein, and put in a quarter of a pound of brasill, and an ounce of gum of Arabie. Then let it seeth a fourth part in, and then put in your Linnen. If you will haue it a redde, then put in no galles.

To

To make a red water for white filke or woollen,
greene, yelow, violet or azure.

Take a pottle of running water, and an ounce of brass, seeth these till the halfe bee consumed. Then take it from the fire, and put in so many graines as yee put vnto a pot of porrage, and a fourth part of gumme. But if yee will make it a light red, put it into another fat, whereas there is a quarter of a pounce of Allum made in poulder, and so let it rest all a night, and it will do well.

To make a blew.

Take three parts of Sope ashes, and one parte of brakenched lyne, and make a lye thereof, and then lette it cleare, then straine it thorow a thicke cloth, and you shall take xv. quarts of the said lye, and put therevnto a pounce of Bloemen (so called in Dutche) then stirre it well together with a staffe, and warme it ouer the fire, so that you may not skant suffer your hand therein, but first your cloth must bee sodden in Allum, and also dyled, then put it in the warme dye two or three times, then after, if yee will haue it blacke or light colour, so you may vse it, but before all thinges your dye must bee warmed, before ye dye or colour therewith.

To make a faire sanguine die.

Take vpon eche elle of Linnen, six galles beaten into poulder, and then take three gallons of water put into a tubbe, and put the poulder of the galles thereto, and stirre them well together, then laye your linnen therein, and turne and wend it well. Then take and wring it drie out, then let it lie therein againe two houres long, but at eche

F.

houre

honre ye must wzing it, as befoze, and lay it therein againe
in the tubbe, and as it hath laine two houres, & so wzing
out, then take one ounce of Allum, of the best, and three
gallons of water in a Kettle, and make it wel and hote, re-
die to seeth, till all be well molten, then set it from the fire,
and put your linnen therein, & do it as ye haue done befoze
againe two houres long: then after that take a paine, and
put therein two gallons of water, and warme that like
the other, then take three ounces of bzall and cast it there-
in, againe let it seeth a quarter of an hower, then take a
good quart of water, and cast it therein seething, and take
a quart of the same die, and lay your linnen therein fire or
seuen pater nosters long, so that the dye be dronk all in the
said cloth, then wzing it foorth and handle it well, then lay
the cloth againe in that die, tosse it, and turne it and wend
it well therein, and let it lie so long therein as aforesaid, and
so wzing it out, then take the third colour and lay it there-
in, and let it lie therein a quarter of an hower, and so it wil
be well.

A light red die for skinnies.

To die a faire light red, take xiiii. dye skinnies as they
come from Antwerp, and put them in the riuer, or in wa-
ter two daies and two nightes, then take them out of the
sayd water, and put into a fat, a Kettle full of vnquenched
lyme or chalke, and put so much water therevnto, as the
felles may well bee couered therein, then stirre them well
with a staffe altogether, and put your felles therein, then
turne and tosse them well, if it be in the sommer, it shall be
inough to lye therein eight daies, & yes must ech two dayes
see vnto them, if it bee in the winter, they must lie therein
a moneth, then take your felles out and hang them againe
in the foze said riuers or water three daies & three nightes,
then after washe them well in a tubbe with luke warme

water, and stampe them with your feete, then after washe them againe in the riuer water as aforesaid, and hang a Kettle ouer the fire with fapze water, and therin put foure pound of allum, and when it is molten in the water seething hot, putting in so much water that it may bee no hotter but your hand may suffer therein without scalding, then sette it from the fyre and put your felles therein, and stirre them well with your hand, so let it rest a day and a night, but as ye go to bed you shall stirre them once wel, then after take your felles forth, and wring the water wel out, and as your felles doe ware somewhat drie, ye must weat them againe: Then take foure pottles of pisse that is stale, hang it ouer the fyre in a pan, let it seeth well, and scum it cleane so long as any scum will rise, then put in a pot full of beaten lack, and let it therein seeth a little, and put therein so much allum as a hasell nutte, and giue it therewith a boiling, then let it from the fyre, and let it so rest till it bee colde to suffer your hand therein, then put a glasse full thereof in your felles which be readie sowde like a sacke, and hold it too above, and with your oother hand hold vnder, and shake it vp and downe as ye would bolt meale, doe thus so long till the colour hath well taken the leather, then turne your felles about, but if it be faire ynough let it so be, if it be not faire ynough, put of your said substance againe another halfe glasse therein, and stirre it about as before, and then rippe your felles, and hang them to drye in some hys tofse. And as they bee drye, so take and lay them a night in a fat with water, and next day taw them vpon a sharpe tawing tron, vntill they be all workemanly done, then are they well.

To make leather red.

Take an ounce of Allum & melt it in a gallon of water, then take a calues felle & spread it on a rame, so it must bee rubbed al ouer with allum water first, then incōtinent ye shall

Strike it al ouer with brasill water, and let it so drie in, and then strike it all ouer againe, and so let it drie in like, but the colour of die must be made warme al wates, when you rubbe thereon. But first you must make it weat with colde water, and wzing it againe out, and then stretch it forth on a bozd, and so ye may vse it.

The foresaid brasill water, yee shall make thus. Take thzee gallons of raine water, and put therein foure ounces of brasill woad made in poulder, and half an ounce of Wep ashes, cald Sope ashes. with a little Saffron. Then seeth it so long till the third part be wasted. Then cleanse that out, and the pot with raine water againe, and let the halfe seeth away. Then is the strength all out, and with this last water ye shall colour first, and with the first water you shall die of colour last.

To dye red felles.

To dye red Leather, ye shall seeth Lacke in bene straw, and a cursy pisse, as afoze is. Then put therein so muche as two great beanes, and then take an ounce of brasill water, and so let them seeth together.

To dresse Felles with gold.

To dresse Felles with gold, take browne red, & grinde it on a stone, with water mixt with chalke, and lyme water, and therewith you shall strike your felles twice ouer, then lay your siluer or golde thereon, and let it drie, then shall ye smooth it with a tosch, and so strike it ouer, and then dye it in the sunne.

To colour greene Felles.

To colour greene felles, take spanish greene, and grinde it.

It vpon a stone with wine Vineger, and some saffron, temper this with gumme water and lyme, and so strike your skinneres therewith.

To gilde on leather,

Ye shall ouerstrike your leather thrise with whites of egges and gumme water, then lay your gold thereon, and lick it well and saye, or the yolkes of hard rosted egges, mixt with gum water and ground, the red and the graye skinneres you may vernish them, take a flatte bason, and put fire vnder, and spread the felles thereon, and strike vernish also ouer the skinneres, where it is coloured, but afore you strike your felles strike it warme on the bason, and then let it drie, then smooth the colour all ouer euen, and when it is drie, then lick it, or burnish it with a tooth, and as ye will haue it saye, so take an ende of a tallowe candle, and rubbe it on your arme from the hand vnto the elbow, then strike it all ouer with that parte of your arme, and it is done.

Againe to colour leather red.

Take the die for a red leather, and take an ounce of brasill in a nealed pot, and seeth it vntill the third part be wasted, but first wash your leather in Allum water, or in other water, but lette it not lie long therein, so lette it drie, and put it therein, and let it rest two daies and two nights on a tacke, and then hang that leather in the aire to drie.

If ye will haue it sanguine, take of vine branches ashes, and make lie thereof, and with this lie seeth your brasill wood, and so ye may colour red therewith.

To colour leather greene.

Take an ounce of Equisetum, in English, Hoysettale, it is an hearbe growing in low places or meadowes, put thereto of old standing water, with a quantitie of Allum powder with a little coperoſe beat in powder, so vse it.

To colour a blue leather.

First you shall take an ounce of Endix, so called in dutch, with one ounce of chalke and a pottle of Vineger, or good Sharpe lye, then put all into a bason, and there stirre it all well together, first your felles must be made redie thereto, as afore is declared, then put your stuffe thereon, and so vse it as the other, and it will shew a faire blue element colour.

To make a faire red colour.

Take your leather which is allumde befoze, then take of old pisse of such as vse to drinke much wine, and lette it stand till it stinke, then take the clearest thereof, and seeth it till the halfe be wasted, then take two ounce of lack, with one part of brasill, a part of Allum, and a part of Sarmoniacum, beat them altogether, and put them into a pot, and set it ouer the fire, and stir it well with a whise sticke, untill the sticke ware red as blood, then take it off, & colour therewith luke warme.

Another fine red colour.

Take halfe an ounce of brasill powder, and halfe a pottle of old water, seeth them togicther, and scum it well, then take a litle allum, which must be first kild in clay, first take it

it from the fire, and then put in your said allum, so reserve it, and vse it as the other.

To make a light blue colour.

Take the flowers of the blue bottles among cozne, and picke them off, then grind them on a stone or mortar, and put thereto a little vinegar, then temper it with allum, as aforesaid, so shall ye have a faire blue colour, so may ye vse it incontinent for it will not last long but change colour.

To make a white leather blue.

Take hengarteren besien, so cald in dutch, which I take to be the low elder, called Dane wort, seeth the said berries in water, then with your hand stirre them well about, and also breake them, so done, then seeth it againe awhile, and so let it coole, and being warme, strike al ouer your leather once or twice, or as oft as ye shal see cause, then take of Endir, so cald in Dutch, and strew of that powder thereon, and rub it in, and so it will do well.

Another way for red leather.

To make your red, take a pound of Rosbrumps, with a little of unquenched lyme, then put thereto a pottle of water, and let it stand a night, then take two partes of other fayre water, and a third part of chalke water, with a quantitie of brassil, then put all the said stufte into a leaden pot, and let it seeth till the halfe be consumed, then it will bee well, and ye may vse it as the other.

To

To make a Greene colour.

*4 shade
Berries* Take the leaues of an hearbe called Nightshade, then
stampe or beate it in a mortar of stone, so temper it with
Allum, and so colour your skinnes therewith, also ye maye
take of the Greene berries of the Greene berrie tree (which
the painters vse) stampe them and so let them rest tenne or
twelue daies, then straine them, and put allum water ther-
to, and strike your skin therewith, but first make it warme
and so vse it.

Another good Greene.

*lowe
Berries
as clay* Take one part of the foresaid lowe elder berries, and
seeth them in sufficient water, then put therein two ounces
of brazill powder, and an ounce of walkers clay, with a pot-
tle of old water, let all these seeth a good while together,
then put in your beaten allum, but not afore, so shall it be a
faire colour as the other.

If ye will haue it a more darker colour: ye must there-
with strike twice all ouer your skinnes: to haue it a ligh-
ter colour, then ye shall mingle it with old raine water, and
so vse it.

To colour blacke Leather after the order
in Germanie.

To colour leather blacke, take a herring barrel, and lay
it thre fingers thicke in the bottome with elder barks,
then take the filinges of yron, and straw it all ouer the
saide barks, then take as muche barke of elder againe,
and lay it therein, and so likewise pour filings thereon as
befoze. Doe thus, vntill the said barrell be thre quarters
filde, and hath taken to the quantitie of foure pottels, or
more

more of the sylinges, then take so much of raine water as will fill it by to couer it all ouer, so let it stande a month or that ye doe colour therewith, and euer as it waxeth emptye, fill it by againe with fillings, and raine water as before in letting it stand (so fild) a month after, and alwaies let the last couer be the fillings aboue, and when ye list to colour therewith, vnto three pottles of colour, you must haue foure ounces of beaten galles, and two ounces of Coperas water, then let it seeth together before ye dye, that ye may colour the better therewith: thus you maye vse it at your pleasure.

To colour a white leather.

First take your skinner and hang them in lyme water, till they wax supple, or in chalke water, and when they be well soaked, if ye will make hast of them, first take of the haire, and clense it out of the said water, so that all the substance aforesaid be taken forth of the felles, and being clensed then a day or more, then wzing the said water all cleane forth, and let them drie, and to fix felles put not aboue two ounces of allum, and let your felles lie therein a night and a daye, then wzing them and draw them wel vntill they be all cleane, and then vse them.

Another faire red colour.

Take a felle or felles, and weat them in allum water and salt mingled together, and to foure ounces of salt take eight ounces of allum to the weatting of your said felles, and also two ounces of lyme, then seeth all in two pottles of raine water, then straine it thorow a linnen cloth, and washe therewith what fell ye will, then spread it abroad on the earth, and take a woollen cloth, and with the same
 G. licoz,

*fast
alone
time*

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To colour a blacke spanish leather.

well in with your hands, that the greace be not seene, of both, Goose grease is the better, then Linseed oyle, or shoemakers traine.

Another way for black leather.

To make a blacke leather, be it sheepe or other, first take your leather and stretch it, then sprinkle it well out of your mouth with water, then take your tawing stocke, and taw it well therewith, also rub and chafe it together with your hands as Cordwaners do, and draw it wel with your paring pson, then put it on your dressing boord, and strike it with a woollen cloth til it be all euen, and then pee may colour it, and when it is well coloured, then wzing the said colour out of your felles, so put it in againe into the said colour, and so do as you did before, at the first time it must bee alway twise coloured, then hang it in the sunne and lette it drie, then ye shall take it againe not being thowow drie, rub it, and so colour it againe, as before. If pee haue it verie soft, rubbe and chafe it betwixt your hands, euer before ye colour, so being well died and coloured, which at the least must be fve or six times ouer. Thus ye must do for sheeps felles, which also must be dyest with alkan, and when you lay your colour vpon them, then take Linseede oyle, and with a woollen cloth, strike your dressing pson therewith, and when your felles be thereon well tawde, then take of your sleight colour or die out of your fat all colde, and colour your felle therewith once after your said linseed oyle. Then put it together, and wzing forth the oile and greace therein, and the colour also, and being well wzing out, lay it together, and colour it once againe, and being thus coloured thzee times ouer, then take and drie it and so it is done.

To gild on leather.

First ye must worke it well, and euerstrike it with the whites of egges, and gum water beaten togeather, then lay your gold thereon, and strike it well, yee maye temper therewith hard yeolkes of egges beaten with gum water. The redde and greene felles you maye vernish, as to take a bason with a smooth bottome, and put coles vnder, and the laye and spread your felle therevpon, so strike your felle all ouer with vernish, but befoze you strike it ouer (on the bottome of the bason or panne) ye shall first rubbe and warme your felle all ouer vpon the basons bottome, then strike your colour all ouer therevpon, and so let it drie, and being drie, smooth it with a fleekestone, and so ye shal make it faire.

To make a lie to die a blue.

When you will die a blue, you must make a strong lie, and ye must take twise so many ashes, with a third part of chalke, then make it seeth foure paternosterwhiles, then cast thereto of cleane wax, which will make it clarifie the better, then set it ouer the fire, and lette it there soke two houres, or thereabouts, then put into a pan five poundes of wead, and put it to the said lie, then hang it ouer the fyre, and warme it well without seething, and then put it into some hearing vessell, let it remaine there halfe an houre, then cast therein halfe a pint of Zemes, so called in dutche, and stirre it well with a staffe, then couer it well the space of a quarter of an houre, and then it will be good and ready to die with, then take of linnen yearne, or woollen cloth, or ther sustian or Dyer: to haue it a light blue, put it but once in, and to haue it a little browner, put it in twise, and to haue it moze browner, put it thrise in, or so long till yee see

see it brokene ynough, and when you haue died what you please, let the vessell rest vntill another day. If then ye will dye moze yearne, linnen, or woollen, then must the dye be taken out of the vessell, and put into a Kettle, and put thereto foure quarts of lie, as is aforesaid, so couer it well and let it stand one houre, then put thereto halfe a pound of grening weed, and hang it ouer the fyze againe, and let it colour well without seething, then cast it into the vessell with a pint of Zemes, and couer it well, and let it rest a quarter of an houre, and then put therein againe to die what you thinke good, and colour it as is aforesaid, also when ye doe set and prepare your fatte, you must haue to euery ounce of grening weede, one quart of good lie.

To colour or die a blacke.

Take a vessell and put in colde gall water, then laye your Fustian therein, stirre it and handle it well therein, and then put it into the blacke die, and tolle it, and handle it well therein also, and then againe in the gall water, and agayne in the dye, doe thus so often vntill it bee dyed ynough.

To die a faire yealow colour as gold.

Lay first your linnen in allum water foure houres long, then take one part of chalke, and two parts of wood ashes, then make a lye thereof, and seeth your die therewith, also the best lye to die withall, is, to take two parts of wood ashes, and one part of chalke, worke and vse it as you shall perceiue best.

For to make a Gray linnen.

To

To die Fustian gray.

Take of hay ashes, and vyne ashes by themselves, and make a lye thereof, then put your Fustian there in the hay lie, and then in the other lie, doe it thus so long till you see it all coloured ynough. With these and such like pee may die linnen gray, but you must put thereto a little more of calles.

For to die blacke silke or veluet.

You shall first soke your silke in gall water an houre long, and then let it drie, then shall pee laye it in the lie of saech meale (so called in Dutch) and with ashes of vynes, and lay it therein twelue houres or more, then let it dye well, and after ye must seeth it in black dye ii, or iii, times, til that ye thinke it be faire ynough.

To die a silke that hath lost his colour.

Take Satten or Damaske that must be made blacke, seeth it fyrst in the dye of Oken barkes, then dye it in the winde, then seeth it againe in your blacke dye, and so let it dye alwaies againe. And if then it bee not blacke ynough, seeth it in gall water and blacke dye, til it be faire ynough, so let it dye, then rubbe all ouer with butter, or ether greace, and wyng it well betweene your handes, then strike it ouer with a sayre woollen cloth, and it so wil be well.

For to make a gray fustian.

First lay your Fustian to soke the space of thzee houres,
then

then to eight elles of Fustian, take two ounces of broken galls, and put them into warme water, then put your gall water into another fatte, with eight quarts of fresh water, then lay your fustian therein, and stirre it well with your handes therein, cosse it well, and wzing it forth wel, & lay it therein againe one hour e, & so wzing it wel forth, then put it into the blacke dye, and lay it therein another hower, so wzing it well, then scoure it in the sayze riuer water, and then hang it to drie if then it be not gray ynough, soke it againe in faire water, and then put into your gall water, and then the blacke dye, then scoure it and drie it, so burle it and dresse it vp, and so it is done.

Blacke silke to die.

To one pound of silke, take xii. gall nots beaten into a fine poulder, then seeth that silke with the galls in common water halfe an houre long, then take of your blacke dye, and seeth it therein another halfe houre, then take it forth and let it coole, and then put it againe into the dye, and let it seeth therein another halfe houre, if then it bee not sayze ynough, seeth it therein till it be sayze, then take and washe it out of that colour and hang it to drie, and so it is done.

To colour curried skinner greene, or felles
to couer bookes.

Take the buds of white & black thorn, which ye must gather in the moneth of August, when they beginne to waxe ripe and blacke, put them in a well leaded pot, the space of tenne daies, then put therevnto foure ounces of allum, and doyle them together well, then put it into a pouldring bell of Breese or Porke, and close it well that it take no winde.

wynd, then set it a little in the sunne, and when ye woulde colour therewith, take a little of the said colour, and mixe it with some lye and warm it, and then strike it on the fells and ye shall see a faire colour. Also take Lincaile, or canker of latin, bony, and mixe them together in like, and put thereto pisse, so much that it may take colour, and also staine the felle, and then drie it in the shade.

To make a yealow colour on skianes.

Take the ripe seedes of Nerprun, so cald in french, drie them in the sunne, and when you will worke therewith, temper it with lie, and with a little allum of the Roche, and let it rest till it be molten, the which will make it to take a yealow colour, but the lie must first be heat a little.

To die thread blacke.

Take a quantitie of broken or bzused galles, and boyle them in water in a small pottle, and when they haue a little boyled, take out all the galles, and put into the same pot so moche Coperas as yee haue had of galles, and put therewith a little gumme of Arabie, and then giue it againe another boyling, so let it boyle a little, and with the said die, yee shall colour therein your threed, then take it forth, and ye shall see it a faire shining blacke.

To die thread gray.

Take of the said blacke die so much as yee list, and put therevnto halfe so much water, more or lesse, as yee will haue your colour deepe or light. Then boile your threed therein, and you shall haue it gray as ye list, other browne or lighter, other after a mouse dunne.

To die thread in sad purple colour.

Take the barkes of Pomgranads, and the pills of dyde oranges, then boyle them in water with a little allum, as great as a small nutte, then let it coole, and when it is cold put your thread therein, and boyle it againe, and yee shall haue a faire colour.

For to currie a raw gote skinne.

Take a gote skinne raw, and put in warme water, and let it rest there a day, then scrape and cleanse it very clean, and take away all the filth thereof, and to finish it, take water, and set it ouer the fire, and put therein a handfull of fat, and foure ounces of roch allum, then stirre all together till it begin to boile, then set it from the fyre, and let it rest til it be cold, then take an egge and beat it with a little oile oliue, this done, put your gotes felle in the said water, and stir it well all about with your hands thre or foure times, and so it shall be in good case, and well curried.

For to die skinnes in a blue like azure.

The wooll being cleane taken off, and the felle washed cleane in faire water, so wzing it all out, then take the berries of the greening tree, as painters vse, and the berries of elder, seeth them all together in water of allum, then straine that water, so let it rest, then poure away the vppermost, and strayne the rest againe, then lette it drye, and wash with this cleare water, but see that your felle bee cleane, then take your colour, and strike your felle all ouer therewith being warme, and so let it drie, so it will bee a good blue.

To die skinner with Madder, called Kubea tinctorum in Latine.

First see that your felles bee readie washed and wroong cleane, and so laid abrode, then shall yee weat it all ouer with the lies of white wine, wherein bay salt haue beene boyled, and so wzing soozth that againe, then take the ashes of the shelles of Treuis, or sea crabbes, and temper it with the foresaid water and salt, and therewith rub your felles and wash them well then with cleare water, and wzing him, take ruddle and temper it with the said lies, and rub it all ouer therewith, and so with the said ashes. Thus wash and wzing it thzee times, if it be not then wel, ye shal giue him a colouring with brasill, and your Madder mixte together with the said water or lies, or that some tartar haue beene sod in, which must be made warme, when ye lay your ruddle, so leaue it a night, then put on your Madder, mixt with allum or lies, or allum catium stieped in water, also you may ad vnto it the shering of scarlet taken out of the boyling lie, which is also good.

A good greene to greene skinner.

First you must cleanse your felles, annoint and stiepe them well in cold water, then take the berries of the sappe greening tree, and being ripe about Michaelmas, ye must stampe them, and so let them rest thzee or foure daies, then put thereto of raine water a little, and then boile them with a soft fire in stirring them still, then if ye will haue it light greene, put too but a little allum, & the sadder greene put too the moze allum in the boiling, and boile it but a little, then ye may fold your felles in the middell, and rub him on both sides therewith, and then with a little poulder of Alum, then take ashes burnt of sheepes dung, and all ouer rub

rub your said felles therewith on both sides, then rub him with the said colour againe al ouer, so wash him with faire water and let him so drie, but finely wring him out, then spread him, and cast off the foresaid thin colour, all ouer the felle, and so let him drie, & it will be a fine colour.

A sleighter greene with the sappe berrie.

Let your felles be first annointed and well washed, and so wzong forth, and then stretch them as the order is, then take of the same sap berries aforesaid, let them bee stampc with rock allum & water, and a little boile, and therewith giue your felle a stroke oz two all ouer, and then let it drie, then giue him a colouring with yealow, made of the sayde berrie, sod with allum water, and againe of saffron, then let it drie, and ye shall see a sayre colour.

Another greene for skinneres.

Your felles being annointed, washed and spread, yee colour him with the foresaid sappe greene, and put vnto it a few weat ashes, and rub the felle all ouer therewith, and being washed and wiped againe, strike him ouer with Indian colour, sod with rock allum, then let it drie, then strike him ouer with the foresaid yealow, and so yee shall haue a faire excellent greene colour.

To die a crimosine colour.

Scrape hard sope, and so melt it in common water, & put your silke in a linnen oz thin canvas bagg, and so put it into the Kettle to the soped water, & let it boile softlie halfe an houre space, but stirre it oft for burning, then washe it in salt water first, and after in fresh water, for eche pounce of silke, take a pound oz moze of Ailum, laide sufficiente

in colde water, and therein put your silke without the bag, and let it rest therein eight houres, then take and washe it in fresh water, then wring it, and put it in the pan to the crimline colour, being well stampt and cleane, take foure ounces, and boile it with so much water as will couer your silke foure fingers aboue in water, and vnto ech pound of crimosine colour, put too thzee ounces of galles in fine powder, or in steed thereof ye may put in halfe a pound of Arsenic, which is not verie wholesome because of the fume, nor the water thereof, and when it boileth put in your silke as afore prepared, and there let it boile a quarter of an houre, then wring it a little, and drie it in the shade, and so it will be faire.

To die a blacke after the common sort of
the countrie women.

They take so much water as will couer the hose, or other cloth, but first they all to strike their hose or cloth, with swart of the grindstone, then they laye alder pilles first in the bottome of the vessell, & thereon lay your cloth or hose, and then pilles thereon againe, then lay your hose thereon, and pilles thereon againe, and then couer al with water, so let them boile softlie two houres space, and turne your cloth often therein, then see if it be blacke ynough, if not, take new swart and pilles, and vse them as pee did at the first, and so boile them againe till they be blacke, then scoure and wash them out, and it is done. Some women do take (in steed of alder) plumtree pilles, some blacke thorne, and some yong oken pils, and oke apples greene, and so dies with them in like case, or the tender shewts of brackebriers, or greene walnut huskes, al these are good in summer to die with.

How

How to harden iron and Steele, and

also to soften, to sowder, and to gilde.

To make Iron or Steele as soft as
copper.

TAke a chalke stone vnlect, with as much allum,
first stamp the allum verie fine in a mortar, then
take your chalke and mingle therewith, then
spread it halfe a finger, or a finger thicke vpon a
linnen clout, and wrap your yron therein, which ye would
haue soft, and lay it in the midst of a fyre, and there lette it
lie an houre or more, till the fyre is out and bee all cold of
himselke without any other thing done to it. Then shal ye
take out your yron or Steele, and it will be as soft as it were
right copper in his hardnesse.

Another way to soften.

Another way for the same, take onelie a white fire turffe
and lay your yron or Steele in the middelt thereof, and laye
it in the fyre, and let it lie there so long, till the fyre doe go
forth, and wax cold of it selfe, then take it out, and it shall
be as soft as need shall require.

For to make yron soft.

Take the water, or the iuice of Rafany, which I take
to be the Rape, then heat your yron hote, and quenche it
therein, and it shall become soft againe.

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Another

Another way to make yron soft.

Take of Sope ashes, and vnselect lime, of eyther alyke, then make a lye thereof, which lye yee shall strayne nyne tymes thowre a strainer, then take other yron or Steele, and laye it therein one night, and it will bee so soft ye may easilye cutte it, will yee then haue it harde againe, so quenche it in colde water, and it shall waxe harde againe.

Another way to make yron or Steele soft.

Take the yelowe flowers of Marigoldes, with the stele and blossome, stampe the flowers, and strayne it thowre a cloth, and put that iuyce into a pot, then take that yron or Steele that yee will make soft, and as red hote as yee canne doe steeke it in that iuyce, and it will bee as soft as Copper.

Another way to soften.

Also take flecken and long wormes out of the earth, of eche alyke, and a thirde part of salte, then take an earthen potte, and make it full of holes in the bottome lyke to a sieve, then take the salte, and salt the wormes into the pot. Then take another potte, and sette it vnder that pot, then will that salt melt with the wormes and runne into the other potte, and that in the vnder potte yee shall keepe, then laye a stone on that pot, and make it seeth well, and scumme it so longe as any scumme will rise, then take it from the fyre that it maye coole, then scumme that off aboue, then make your Steele redde hote as fyre, and so quenche therein, which yron or Steele a man may bow like as it were coppere: then to make it hard, heate it red hote,
and

and quenche it in cold water, and yee shall thinke it were
fine Steele.

To make yron soft.

Take an hearbe called in Latine, Vngula cabellina, it is
a clove, cald in English of some Colts foot, or Bulls foot,
take and make a water ther eof, and heate your yron redde
hote, which yee will haue soft, then quenche it in the
said water, and it shall become soft, that you maye
use it for your purpose, and so harden it againe as the o-
ther.

Another way to soften.

Take Slecken, so called in Dutch, and stampe it with
strong wine Vineger, then heat your yron or Steele redde
hote that you will haue soft, and quench it in the sayde
iuyce, and then it shall bee soft like the other, and to make
it hard againe, wherein to quench with cold water, as
befoze.

To make Steele or cristall soft.

Take of unquenched lime, with as much of sope ashes, and
thereof ye wall frante a lie after this maner, which is, yee
shall straine it thozow a strainer ix. times, then take your
Steele or cristall, and lay it a night therein and a day, so it
shall be very soft, if ye will haue it hard againe, so quenche
it in cole water as the other aforesaid.

Another way to soften yron.

Take your yron redde hote, then quench it in Linseede
Oyle, doe this so often till ye shall perceiue it to be soft
ynough.

ynough, and another is, take the blood of Celes, and make your yron hote and quench therein.

Againe to make yron soft.

Take of clay, and lappe it round about your yron with a weat cloth, then lay it in a hote fyre of coles, or in a fyre of white curffes, so let it lie vntill he coole by himselfe.

Another to soften yron.

Take the iuice of an hearbe calde in latine Marubium, in English Horehound, with the iuice of gherwe, so called in Dutch, which I take to be Henbane, and also the iuice of Radish, and mix them with Aquauite, then quench therein, and when ye will haue it hard againe, then make it red hote as befoze, and quench it in cold water.

To make yron as soft as lead.

Take and make blacke flints into a fine poulder, and grinde it well vpon a painters stone, then put it in an yron panne, and make it red hote, then cast it on a marble stone, till it be nie cold, and then againe make it red hote, then let it coole, and grind it so long vntill it cleaue to the stone and grinder like clay, then put that in a glasse, and sette it vnder the eaves of a house, where the sunne commeth not nigh in the daye, then the night after take out the water, that ye shall finde in the glasse aboue thereon, then take that poulder, and grinde it with the water, and put it in a stillatorie, and let it stille out the halfe, then reuerse the water againe vpon the poulder, and still it againe with a soft fyre, then take and seeth that water till the halfe bee wasted, so done: then take some yron blade that is newe broke

broke in two, & put it together and hold it so a little while, then take of the water which was sod to the halfe, & with a fether lay it first on the one side of the blade, and when that water is cold, then lay it on the other side, and it will sowder fast with that water.

And with this water ye may make steele as soft as lead, or butter, & to make thereof with tooles, as in wax what ye list. Also this water is a souereigne thing to helpe the goutte, if therewith it be annointed where the greefe is, & it wil soone remedy it. With this water ye may graue letters on yron or steele, to write with a water thereon with your pen. Then after take of the vnloaden water, and put thereto some saffron, and grind it together, and then draw thereon what ye will with other water, and so let it drye, which shall seeme a fayre colour like gold, thus yee maye mixe and grind any colour ye please with your sodden water, and it will shew in like faire.

To make steele or yron soft.

Take the iuice of Hemloc, stampe and straine it, then put vnto it of Beates oyle, and so warme it, and beeing warme, make your yron and steele red hote, and quenche therein, and then heate your yron againe thzee or foure times, and so quench therein, till yee see your yron become soft, and bow like lead, also ye may take oyle, and drop into it molten lead thzee or foure times, & therein quenche your yron or steele also.

To make yron or steele so soft that ye may easily wreath it.

Take the gall of a bull, or of an Ore, and mixe it with Vernice and pisse, with the iuic of Nettles, eche of lyke quantitie, then make your steele or yron red hote, and so
A.
quenche

quench therein, and ye shall see experience.

To make yron soft another way.

Take Saluiter, Vitrioll, in powder made and wel beaten together, then ye shall distill them in a Libec of glasse. Then take the said distild water, and your yron which you would haue soft, lay it therein a day and a night, then take out your yron, and couer it in hote horse dongue the space of fiftene daies, then worke therewith, and you shall see experience. Also in making your yron red hote, ye may quench it in Dre dongue, or Cow dongue mixt with honie, and oyle oliue. Then heat it, and so, often quench therein, and ye shall see it will be so soft, that ye may make or work with it at your pleasure.

Another good way to soften yron.

Take hony and scymme it cleane, and then take of fresh new gores pisse, a quantitie of roche Allum, as muche of Burras, also of oyle oliue, and salt in like portion, then mix them all well together, and make your yron red hote, and so quench therein.

Againe, when ye would soften any yron or steele, firste hold it ouer the flame of the fire till it be hote, then strike it ouer with suet or other greace, then hold it ouer the fyre, and let it drie in, do so twice or thise and it will be soft.

Also take of bozne and scrape it vpon leather, and put thereto Salarmoniac, and pisse thereon, then turne your yron thereon being hote, till it hath consumed your leather and stufte, and so it will be soft.

Likewise take of Salarmoniac, of vnselect lime, of eche like, of Uenis sope more then both the other, stir all well together, and lay your steele therein, and make it moyste with vineger, so let it rest therein foure daies, and worke there.

therewith, ye may vse small peeces so, but for greater, take cow dongue, whites of egges, and clay, temper it with vinegar, and lay your Steele therein,

Another, take salt, wine stone, of ech in like portion, temper it with clay altogether, and so lay your Steele therein, & so lay it in the fyre the space of two houres, then take it forth, and let it coole of it selfe, and it will be soft.

Againe take of sope and unbleked lymme, of eche in lyke portion, and of Salarmoniac somewhat lesse, and work and make a past thereof, then lay your yron or Steele therein, & so lay it round with clay, and lay it in the fyre, and heate it red hote, and then take it forth and let it coole of it selfe, as the other aforesaid, and then ye may worke thereof at your pleasure.

A poulder to soften mettals.

Take foure parts of looking glasse, of galles, of other glasse, of salt, of ech one part, beat and mix them all wel together, and three parts of the same poulder and one part of your mettall, and melt them together, and so vse it as you please.

To make yron hard.

To make yron hard, you shall take the distilld water of Ueruen, and heat your yron red hote, and quench it therein, do thus eight or nine times, and ye shal see it very hard, also another, which is, take the green iuice of Marubium, cald in English Horehound, with the iuice of Radish, mixt with some Aquauite, and your yron being red hote, quench therein, or take the said horehound, and drie or burn it, and then make poulder thereof, and mix it with much salt, and harden therewith.

Another way to harden yron.

Take of Antimonia, Gallamint, and Copozas, beat eche by himfelfe to poulver, and then strew thereof on your glowing yron, and so heat it againe, and all to smeare it with these pouders againe, then temper it with this iuice following. Take the iuice of Celondine, as much of the roots as blades, unto ten pound waight, and stampe them, and seeth the iuice to six pound, and when yee will season anye mettall, quench in the sayd iuice of Celidon, and it shall be hard.

To harden hammers and kniues.

To harden all maner of edge tooles, ye shall take horse dongue, and then heat your Knives or other tooles redde hote, and so quench it therein, also to take the fylinges of yron or Steele, and they will harden also, or take shooes and burne them till they be blacke, and make a poulder thereof, and take of that poulder with the like quantitie of salte, then straw it vnder and aboue your fyles, which shall bee layd in a square yron, couered with a lid of yron, you shall straw your poulder thicke thereon, and then shut it. This ye shall make red hote altogether in a hote fyre, and quicklye quench it in cold water, and so let it coole therein, and it will be good and hard.

To harden another way all kind of tooles.

Take the iuice of Pentafilon, that growes in heathes, which is a fine leaved grasse, called of some Synkefoyle, with so much of the iuice of Wormewood, keepe this in a vessell of glasse. Then take Pieren (so cald in Dutche) and stampe it and straine it thozow a cloth, and all to strike ouer

uer with this, your yron being red hote, and as it drieth in,
Strike it againe, and it will make it hard.

Another way to harden yron or Steele.

Take the iuice of an hearbe, called Nigill Romana, in
Latine it is called Melanthia, and heat your yron red hote,
and quench therein. Againe, to harden yron so harde that
it will cut all other tooles, heat it redde hote, and quenche
it in the iuice of House eare, which is called in Latine Pi-
locella,

To harden yron so hard as Steele.

Take Snaples, and the first drawne water of a red die,
of the which water being taken in the two first moneths of
haruest when it raines, then still it, or taken in the ende of
May, then heat your yron red hote, and quence it therein,
and it shall be as hard as Steele.

Also take Fimus humanus, the dongue of men, still it in a
Lymber, so that no water come thereto it, and that it
may be somewhat drie when ye still it, and take ye heed of
his sanour, the water ye shall distill twice in a new glasse,
in Balneo Marie, that is, one glasse within another, in a
pot of water.

You may do thus, Still mens blood of the age of thirty
peares, and of sanguine complexion, warme and moist, be-
ing of a merrie nature and pleasaunt, and whole and sound
of bodie, such a one to be let blood in the middest of his age,
and that hath plentie of blood, distill of his in the middest of
may, or in May. And thus by prooffe, and also the water of
mans doong, if it be well and rightly stild, heat your yron
glowing hote, and quench in that water, so it wil harden it
as hard as Steele. But if that water be not rightly stild, the
yron will not harden therewith, but bee as softe as it was
before.

To make yron or Steele hard.

Take the iuice of Maruen, cald in Latine Varbena, and draine it into a glasse, and yee will quenche any yron, take thereof, and put too of mens pisse, and the distild water of wormes, so mix altogether, and quench therein so farre as ye will haue it hard, but take heed it be not too hard, therefore take it forth soone after, and let it coole of is selfe, for when it is well seasoned ye shall see golden spots on your yron.

Also the common hardning of yron or Steele, is in cold water, and snow water, so when the edge shal seeme blue after his hardning, signifieth a good sign, and a right hardning.

To make Steele hard, and to cut well.

Take an hearbe calde ore tongue, or langdebeefe, seeth it in water, both the roots and leaues, then make your yron or Steele red hot, and quench therein, and ye shal see experience. Also take the yelow flag, cald in Latine Spatula fatida, some doe call it spurgewort, take with it Maruaine, of either like quantitie, then seeth them together in fayre water a good space, and then let them stand and cleare till it be cold, then heat your yron or Steele red hote, and quench therein.

We may make mustard, and put vineger vnto it, and quench your mettals therein. Also yee may take the iuyce of earth wormes, with the iuice of housleeke, beate them together, then straine them, and quench therein, or take of mens haire, and haire of beasts, and seeth them in water til the water wax reddish colour, then let it coole, straine it, and quench therein.

Also some do quench in the iuice of radish, and the iuice of smallage mixt together, and the fine powder of rosin, put therein,

therein, and therein quench your mettals. Againe: they take the iuice of varuen, and the iuice of an hearbe called Dragons blood, and of scraped hozne, with halfe so much salt, the iuice of earth wormes, and the iuice of radishe, put all these together aforesaid, and therein quench your mettals, this waye aforesaid is very good to make your mettals so hard as ye would desire, & make them whole, faire, and bright withall.

To make yron hard, without any crackes, clefts, or warpings.

Take first suet or tallow of a beast, and melt it, then put it in some pot or some other vessell, whereas colde water is, and this molten suet must bee a finger thicke vpon the saide water, and when yee will harden any thing, you must put it downe softly thorow the suet, into the saide water, and the quenching first in the suet, and then in the Water, it dooth saue it without cracke, cleft, or warping.

Another way to harden yron.

Take the iuice of Maruin, and take of land wormes in the field, after the plough, or a nights in gardens, and put a pint of those wormes into a leaded pot, then put vnto a good handfull of salt, then stir them well, and so there will come a water of them, and that water straine vnto the water or iuice of Maruin, and when they bee together, yee shall quenche therein. This way is good for al weapons.

A way to harden pickaxes, files, or other tooles.

Take the iuice of Radish, the iuice of Cadloc, the iuice of
great

great wormes, a quantitie of goates blood, mix al together, & your weapons being ground, quench therein, and likewise your yron to harden. But to harden Nayls, Axes, Knives, and such is, to quench in the iuice of Radish, also men of times to harden files, doe quence in Linseed oyle, or with serapt horne, or with goates blood.

To harden tooles to hew all other.

We shall gather of field snailles, or house snayles, with their shells, then stampe them a little, and distill them in a Lymbec and in that distild water, harden your Steele or yron, but if ye will haue it very hard, ye shall take sand and bymstone, and grind them together, and so strew it on your yron or Steele being red hote, and then quench it in the said water, and they will be very hard.

A way of harding of Augars, Persars,
and such like.

We shall take of mens byrne, old and cold, with the iuice of varuen, and the iuice of wormes, of eche like quantitie, then stir it well altogether, and so quenche your mettals therin, so far as you will haue it hard, then let it coole softly of it selfe til ye see spots like gold rise thereon, then take it out of the said water, and they wil be well.

To set a colour or vernish on yron.

To vernish yron or Steele, take the gall of a Calfe and (your yron and Steele being cleane vernished) strike with a cloth your gall thereon, and then let it drie in the sunne, and it will shew like a gold colour.

To colour tinne, or copen, or to colour the buckles
girdles, and such.

Take of Lynseed oyle so much as ye list, set it vpon the
fire, and scymme it cleane, then put therein of Amber, and
of Alopaticum, in like order, then beate and stirre it well
altogether, with the oyle ouer the fire, till it wax thicke,
then take it from the fire and couer it close, then set it in
the earth thre daies, and when yee list to occupie thereof,
strike your mettall all ouer therewith, and so let it drie as
aforesaid in the sunne, and so you shall haue a golden co-
lour.

How to gild vpon yron or Steele.

Take a quantitie of wyne stone, with as much Salas-
moniac, and like of Verdigreace, and some salt, then seeth
altogether in white wine, then strike all ouer your burni-
shed yron or Steele, and let it burne in the sunne as befoze,
and you may gild thereon with common gold as the order
is, and so it will be faire and good.

To gild yron with a water.

Take of water or running water, for thre pound of wa-
ter, take two pound of Roch allum, and an ounce of bitriol
Romaine, and a peny waight of verdigreace, of salgemma
thre ounces, one ounce of Dypement, then boile all these
together, and when it begins to boyle, put in some lyes of
tartar and bay salt, of euery halfe an ounce, make it seeth,
and being sod a pteie while, take it from the fyre, and then
strike your yron therewith, then let it drie against the fire,
and being drie burnish it, and it will be faire.

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To gild on yron another way.

Take foure ounces of oyle lyne, of Tarre oz wine lyne, two ounces, and two ounces of the yolkes of harde rosted egges stamp, of Alia Cicotrinum one ounce, a quarter of a dragm of saffron, then boile all these in an earthen pottle a good space, & if the oile of linseed couer not al the substance, put therto sufficient of water, then annoint your burnished yron therewith, and it will shew as the colour of gold,

To cast a siluer colour on copper for buckles of harnes and such like.

Take of wine stone, of allum, and of salt of ech like quantitie, then grind them altogether on a painters stone, and put therevnto a leafe oz two of siluer, and so grinde it well with the rest of your stuffe, so done, then put it in a leaded pot of earth, and there in put your copper a little while, so done, then scrape it with your wiar brush, then yee shall see if it will be well, if not, let it remaine therein long, and so will it be faire,

To gild on yron as goldsmiths do, with quicksiluer, and gold foile.

Take vitriol 1 ounce, allum 2 ounces, salarmoniac 1 ounce, then beat these into poulder, and boile it in common water, then take your burnished yron, and all to weat it with the said water, so then lay your goldfoile thereon, and drie it against the fyre, then burnish it as men do, & so it will looke faire, but if ye will gild wich golde mixt with quicksiluer, as goldsmiths do, ye shal put in a dragme of verdigreace, with halfe ounce of Sublimatum, so boile them together, & let your yron boyle in the same water, but being so great

ye cannot then rub it therewith, & heat it to receiue better the colour, with quicksilver and gold, and when ye haue so heated your yron, ye may gild with the same gold so mixt, and then fume it with a fyre lampe, or bymestone, or wax.

A good way to burnish yron.

Take an ounce of Alopaticum citrinum, an ounce of Amber, then mix and beat them together into a poulder, then set it ouer the fire of coles in a earthen pot, and make it not to hote at the first, but when it is molten put thereinto a quantitie of seething oyle, and stir it al well togither with a sticke, then let it rest, take it from the fire and coole, and so keepe it, and with this ye may vernish at pleasure, as ye do other mettals.

To sowder on cold yron.

Take two ounces of Salarmoniac, two ounces of salte, two ounce of winestone made in poulder, 2 ounces of clocke spice, so cald in dutch, six ounces of looking glasse, beate all these, and mingle them well together, then put them in a linnen cloth, & lay it round, a finger thick with good clay which clay must be weltempered. Then put them in a leaded pot of earth, and couer it with another like pot of earth then set it softly on glowing coles, so let it softlye warme, and by little and little increase your heat, till the said stufte be al glowing hote and run, so done, then let it coole from the fyre, then take it forth and breake it small, and so grinde it to a fyne poulder, and when yee will sowder any yron, yee muste make it fast on a boord, and see that the ioynts bee sette close together as yee canne, and first lay a paper vnder your yron, and put of the said poulder a little betwixt the said ioynts, and also vpon all the ioynts, then wrappe it all rounde with claye, sauing aboue,

which yee shall leaue open to sowder at, then take of the poulder of Burras, and put it in wine luke warme, or Aquauite, and so let it melt therein, so done, take of the same wine, and with a feather strike on the ioints about which be vncoverd, then it will begin to seeth, so when it leaueth seething, it is then whole sowdered and sound, then being so take of your clay, and such roughnesse as doeth remaine on the ioynts, which ye shall not fyle of, but grind it of, and thus it shall be well.

Another waie to sowder warme on yron or Steele.

Take of gum water, and beate therewith some hearbes, which hearbs it shall not skill what, and make it as thicke as a past, and when ye will sowder any place, strike thereon, or lay it on the ioint, then rubbe it thereon with sope, and then holde thereto a fyre cole, and it will runne. Then wash of the said dough from the sowdered place, and so it will be faire.

How to sowder on Copper.

Take an ounce of Copozas, halfe an ounce of white Arsenic, which is called white Dypement, then make your Copper to runne, and diuide your Arsenicke into two parts, then cast one part into your copper, and stirre it wel all together, and then cast in the other parte of your Arsenicke to your coper, and stir it wel altogether, so done, cast it on a stone, and spread it thin, and when it is cold, beate it into a fyne poulder, and vse it likewise as the other before mentioned.

For to sowder on Lattin.

You must fyle your Lattin cleane all ouer, then put the
ioints

ioints close together, and thereon scrape quickly your bur^a ras, so ye shall see it well and sure sowed.

Another powder to powder on yron.

We shall set your ioints of yron as close as yee may the one vnto the other, then lay them so in glowing coles, and then take of Venis glasse made in fine poulder, and your yron being redde hote in the fyre, cast the poulder of your glasse thereon, and so it shall sower of himselfe, and be very strong withall. And if ye clay it in clay as aforesaid, you shall not doe amisse.

Another good way to gild on yron
or Steele.

Take one ounce of Or Gall, or Or gyys, in Dutch so named, with a third part of Vermilion, and a fourth part of Bolearmoniac, with as much of Aquauite, then worke and grinde them altogether on a stone with Lynseed oyle, so done, put therevnto some of the stone called Lapis Calaminaris, the bignesse of a hazell nut, and grind therewith in the end, thzee or foure drops of Vernish, so take it off the stone, and straine it thorow a linnen cloth into a stone pot, for it must be as thicke as honie, so keepe it, and strike it whereon ye list, and so let it drie, and then ye may lay your golde or siluer thereon, as aforesaid.

A Varnish like gold, for tinne, siluer or buckles
of copper.

We shall haue small pots well leaved, then put therein six ounces of Linseed oyle, one ounce of Masticke, an ounce of Aloepaticum citrium, then make them altogether in fyne poulder, and then put them into your said oyle, and couer it

R.iii.

with

With such another pot, which pot aboue yee shall make a small hole in the bottome thereof, wherein ye shall put thorow a small sticke, with a brode ende beneath, to sturre the other pot withall, and when the pots are set iust together, one to the other, ye shall close them al about with good clay and couer them all ouer also, in leauing but the hole open aboue, with the sticke to stir the other pot, so done, set them ouer the fire in stirring it oft, as it doth seeth, like painters vernish, and when ye will gild therewith, poolliche your mettall fyrst all ouer, and then strike the vernish all ouer thereon, and then let it drie in the sunne, if it lie too thinne, strike it ouer againe so often as ye shall thinke good, and so let it drie betwixt your striking, and then ye shall see it will do well.

A way to graue on yron or Steele, or other kind
of weapons.

Take cole of a willoe or sallo, two parts of Vitrioll or coparas, two parts of Salarmoniac, worke and beate all these together well with Vineger, and make it thicke like broth, and when ye will eat or graue any thing withall, draw first thereon with this thing following. Take Vermilion, and linseed oile mixt all together, then drie it & lay it ouer with your past a finger thicke or moze, and the warmer it is, the sooner it will graue and eat, but see too it, it burne not, and when it is dryde well, doe off the sayde poulber, and cleanse the casting out, then take two parts of spanish greene, cald verdigreace, and a part of salt, then beat them together in a morter, and put vnto it strong Vineger, and so as it is abovesaid, or take Vitrioll, Allum, salt, Lapis calaminaris, vinegar, and sallo cole, and make it as the other aforesaid, or take two parts of Vitriol, and a third part of salarmoniac, and grind them well altogether on a stone with vyne or pisse, then lay it on as it is aforesaid

saide, put ye must lay it cold on, and set it then foure or
fue howers in a seller, or low coole place, for it will bee the
better.

A water to eat or graue on yron or Steele.

Take of verdigreace, of Mercury sublyme, of vitriol, & of
Allum, of ech alike, then beat them small, & so put it into a
glasse, so let it stand halfe a daie, and stir it often, then strike
it all ouer with wax or yealow lead, mixt with linseed oile,
or liisen smout, so cald in dutch, and strike thereon with the
water in the glasse, & let it stand halfe a day, but if ye write
or lay thin that the water may eat it the sooner, which ye
shal couer al the yron and Steele thin with wax, and to draw
thereon what ye list with a pensill in the wax to the ground,
then strike your water all ouer, and so it shall eate on your
grauen places, or lay theron Mercury sublimatum in your
grauen places, and put therevnto vinegar, and so let it rest
halfe an houre after, and it will do well.

Another water to eat on yron or Steele
more stronger.

Take an ounce of Verdigreace, halfe an ounce of Allum
Plumosum, and halfe an ounce of Salarmoniac, as much
of winestone, and halfe an ounce of Vitriol, and as much of
common salt, let all be small beaten, & so put together, and
put thereto of sharpe vinegar, & so let it stand an houre, and
when to graue or eat anie thing therewith, it must be first
grauen, & ye shal write with liisen smout, or yelow colour
then let it drie, and then make your foresaid water hote
in a leaded panne, and let it stande ouer the fyre, and hold
your yron and Steele ouer the panne, and poure of that hote
water thereon with a ladle, that the rest maye fall agayne
into the foresaid panne, thus must you doe still a good
quarter.

quarter of an houre, & this doing, then take ashes or vnselect
lyme and rub it, & looke of that ye would haue eaten, if it be
cleane or not, if not, draw it again with your yelo matter, &
then poure on your said water, and so ye shall haue it well.

To lay gold vpon yron or other mettall.

Take of liquid barnish i. li. of Turpentine and oile of Lin-
seed of ech i. ounce, then mix them wel altogether, and so
relerue it, on this ground ye may gild vpon any mettall.

Another way to gild on yron.

Take of bolearmontac, & white gum, of ech one ounce,
thē put it into a pot of earth well leaded, & let it seeth ther-
in softlie with a fyze of coles, and put therein two ounces of
Linseed oile, and when it doth rope like a thread, it is then
a signe it is ynough sod, with which ye may vse to gild, as
is afoze declared, by these and such practises in mettals, ye
may find out the like of other hereafter.

A way to eat on mettals.

Take an ounce of Saltpeter, an ounce of coperas, beat
them together and put them into a double glasse, and distill
a water thereof, then take yelow or red war, and spread it
thin as paper, on what mettall ye will, or weapon, then
draw thereon to the ground with a pensil of Steele or other,
then all to strike it ouer the drawne places with the sayde
water distild, so let it remaine xxiii. houres, which water
will eat on your yron or Steele sufficiently. The like way
ye may doe with other sorte of mettals.

Finis.

The table of all the principall thinges in this Booke.

A

<i>Azure colour to worke on.</i>	39
<i>Azure another to worke with.</i>	39

B

<i>Blacke dye after the countrey manner.</i>	58
<i>Blacke silke to dye sayre.</i>	24
<i>Blacke silke oz Veluet to dye.</i>	53
<i>Blacke water to dye withall.</i>	37
<i>Blacke spanish leather to dye.</i>	48
<i>Blacke silke to dye.</i>	53
<i>Blacke threed to dye.</i>	54
<i>Blue colour to make.</i>	39
<i>Blue linnen to dye.</i>	33
<i>Branne water to make.</i>	22
<i>Brazill to dye a red.</i>	30
<i>Brazill colour to worke on cloth.</i>	35
<i>Buckeram to dye blue.</i>	55
<i>Bucking of linnen clothes to scoure well.</i>	9

C

<i>Carnation dye to make.</i>	26
<i>Cloth stained to helpe.</i>	1
<i>Crampmeade to make red.</i>	36
<i>Crane colour Fustian to dye.</i>	11
<i>Crimosine colour to make.</i>	57
<i>Currying of raw Gotes skinnnes.</i>	55
<i>Colouring of Tiane, Copper, and such.</i>	71

D

<i>Dying a sayre yealow.</i>	32
<i>Dying linnen red.</i>	21
<i>Dying with facet wood oz willo wood.</i>	27
<i>Dying after the countrey sort.</i>	58

L.

F. Felg

The table.

F

Fels how to dye redde.	43
Fels how to dresse with Gold.	42
Fels to colour greene.	44
Fels how to curry and colour raw.	55
Fels how to dye blue.	55
Fels how to dye with Madder.	56
Fels how to dye a fayre greene.	56
Fustian to dye in a graye.	57
Fels how to dye greene with sap berries.	52

G

Gownes spotty to helpe.	5
Gold kept from stayning.	9
Gyldeing on Leather.	50
Gylde on yron or Steele.	71
Gyldeing another way.	72
Gyldeing on yron with quicksiluer.	72
Gyldeing another way on yron or Steele.	72
Grauing on yron, Steele, or other weapons.	76
Grauing with a water on yron or Steele.	77
Gyldeing another way on yron.	78
Gold laying on yron or Steele.	78
Graye Florey how to make.	37
Greace to take out of Veluets or silkes.	17
Gray thread how to dye,	54
Greene to dye fayre.	24
Greene another colour to make.	25
Greene water how to make.	31
Greene a good colour to make.	46
Greene another to make.	57
Greene with sap berries to make.	57

H

Hard yron to make.	65
Hardning of yron another way.	65

The table.

Hammers and Knives and other tooles to harden.	66
Hardening of all tooles of yron.	66
Hardning of Steele oz yron.	
Hardning of yron as hard as Steele.	67
Hardning of yron another way.	
Hardning of Steele to cut well.	68
Hardning of yron without cracke oz warpe.	69
Hardning another good way.	
Hardning of axes, files, and other edge tooles.	69
Hardning of tooles to hew all other.	70
Hardning of awgars, persars, and such.	70

I

Iron moules to take forth of linnen.	6
Iron moules out of linnen another way.	7
Iron oz Steele to soften.	59
Iron another way to soften.	59
Iron to soften with water.	59
Iron to soften another way.	60
Iron oz Steele to soften.	60
Another way to soften yron.	60
Another way for the same.	61
Another softning of yron.	61
Iron Steele oz Chystall to soften.	61
Another way to soften yron.	61
Another way for the same.	62
Iron to make soft as leade.	62
Iron oz Steele to soften.	62
To soften Iron, easily, to cut it.	63
Iron to soften another way.	63
Another good way to soften yron.	64
Iron how to vernish and colour.	64

K

Keeping of Linnen long and good.	10
----------------------------------	----

The table.

L	
Leather how to gild on.	43
Leather how to dye red.	42
Leather to dye another red.	42
Leather how to colour a blue.	44
Leather how to colour greene.	44
Leather another fayre blue.	55
Leather to dresse after the maner of germany.	46
Leather fells all white to make.	47
Lye to make to dye a blue.	50
Lye to make to take out spots.	4
Linnen to dye in a fayre red.	20
Linnen to preserve with a sweete water.	12
Linnen how to dye with brasill.	
Another fayre dye with brasill	31
Linnen to dye with brasill another way.	34
M	
Moaths to keepe from clothes.	11
Moles of yron to take forth of linnen.	6
O	
Oyle spots to take out of clothes.	6
Oyle spots another way to take out of clothes.	
P	
Parfumes to make for clothes.	4
Parchment spotty to helpe.	7
Paper spotty to clense.	8
Powder to make to soften mettals.	65
Purple silke to dye.	24
Purple sad colour to dye.	55
Q	
Quoyfes of silke to colour red.	23
R	
Red silke how to dye.	37
Red water how to make	38
	Red

The table.

Red to dye with brasill.	38
Red light dye for skins.	48
Red colous sayze to make.	44
Another fyne red to make.	44
Red leather how to colour.	45
Red to dye a fayre colour.	47
Red thread to dye.	20
S.	
Scarlet greaze to helpe.	1
Scarlet with spots to helpe.	6
Sanguine dye sayze to make.	39
Shirts to wash for staining.	13
Silke leeing his colour to helpe.	52
Sylke how to dye a fayre blacke.	53
Silke how to dye in a sanguine.	23
Silke staine how to helpe.	1
Sope to take forth greacie spots.	2
Sope against spottie woollen to helpe.	15
Sope another for the same.	15
Sope to take out oyle and greace.	5
Sope water to helpe all spots.	6
Spots or staines in clothes to helpe.	16
Spots in white silke or in other colours to helpe.	16
Spots in coloured clothes or others.	2
Spots of greace to take forth.	3
Spots to take out of clothes.	8
Spots in woollen to take forth.	8
Spoonging of woollen cloth sayze.	10
Spots in woollen a ready helpe.	12
Siluer colour on copper for buckles	72
Solwering cold on yron.	73
Solwering yron another way.	75
Solwering on warme yron or Steele.	74
Solwering on copper.	74

Solwe-

The table.

Scoudering on Latine.	74
Staines in linnen to remedy.	8
Staines on silke oz woollen to helpe.	12
Stayned clothes with wine oz vinegar to helpe.	14

T

To colour leather blacke after the order of Germany.	46
--	----

V

Vernish like gold, for siluer, tinne, oz Copper.	75
Vernish on yron to make.	73
Veluet being spotty to helpe.	6
Veluet to dye in a blacke.	36
Veluet how to dye blacke oz silke.	52

W

Water to worke on yealow oz other colours.	38
Water to eate on yron oz steele.	77
Water another to eate on mettals.	77
Wax to take from clothes.	14
Woollen to dye in a sanguine.	28
Woollen cloth to dye in colours.	29
Woollen greene pearne to dye.	29

Y

Yealowe to dye sayre.	32
Yealow to dye it sayre.	19
Yealow a golden colour to dye.	51
Yealow fells how to colour.	54
Yealow dye to dye with woad.	19
Yealow to worke on with red water.	38

FINIS.

1583

