An essay on the causes of the variety of complexion and figure in the human species : To which are added, Strictures on Lord Kames's discourse on the original diversity of mankind / By Samuel Stanhope Smith.

### Contributors

Smith, Samuel Stanhope, 1750-1819. American Philosophical Society.

### **Publication/Creation**

[Edinburgh] : Philadelphia printed, and Edinburgh reprinted, for C. Elliot, Edinburgh; and C. Elliot and T. Kay ... London, 1788.

### **Persistent URL**

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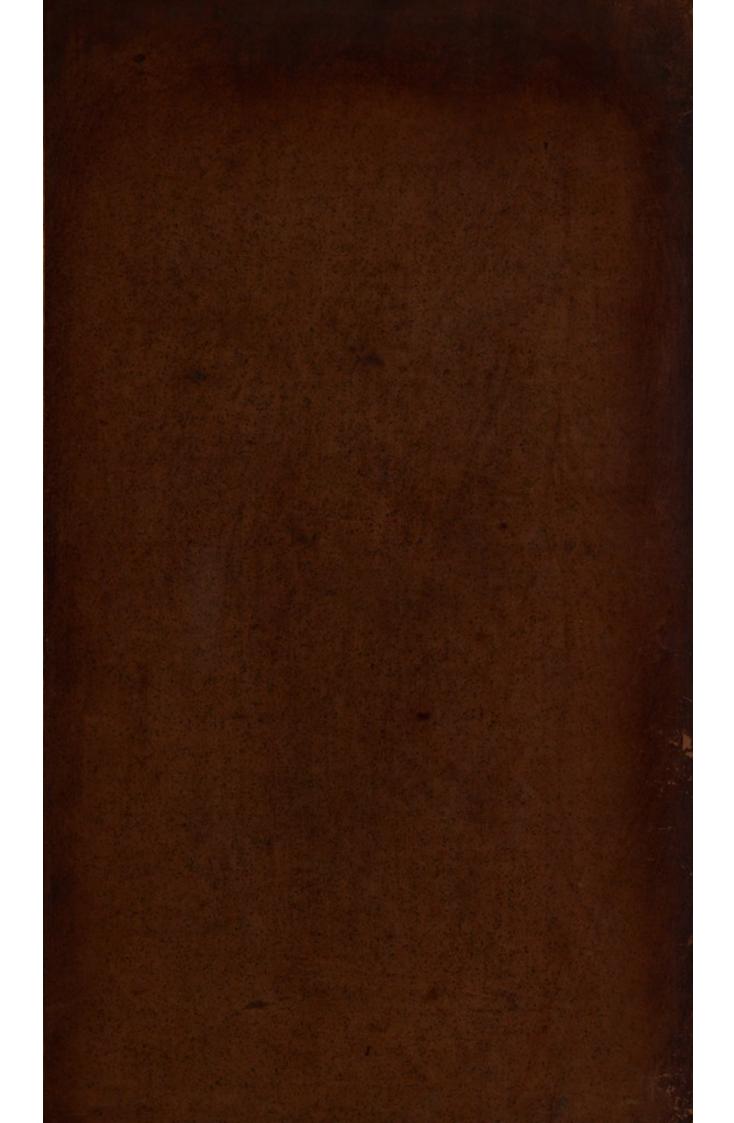
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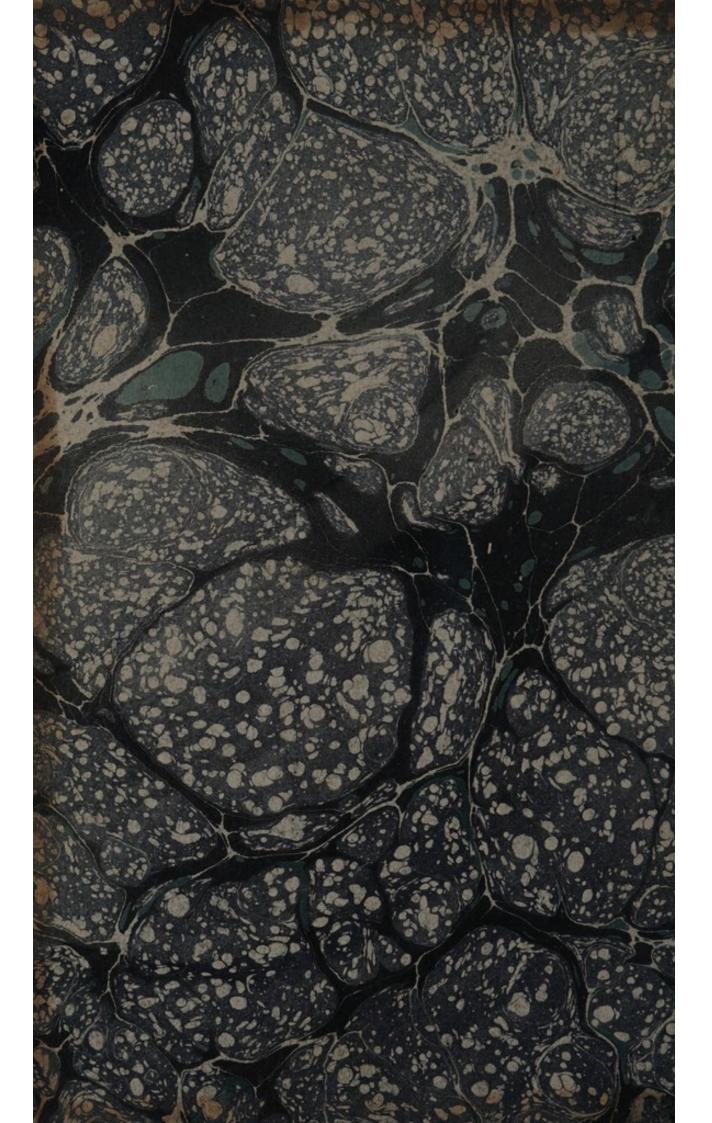
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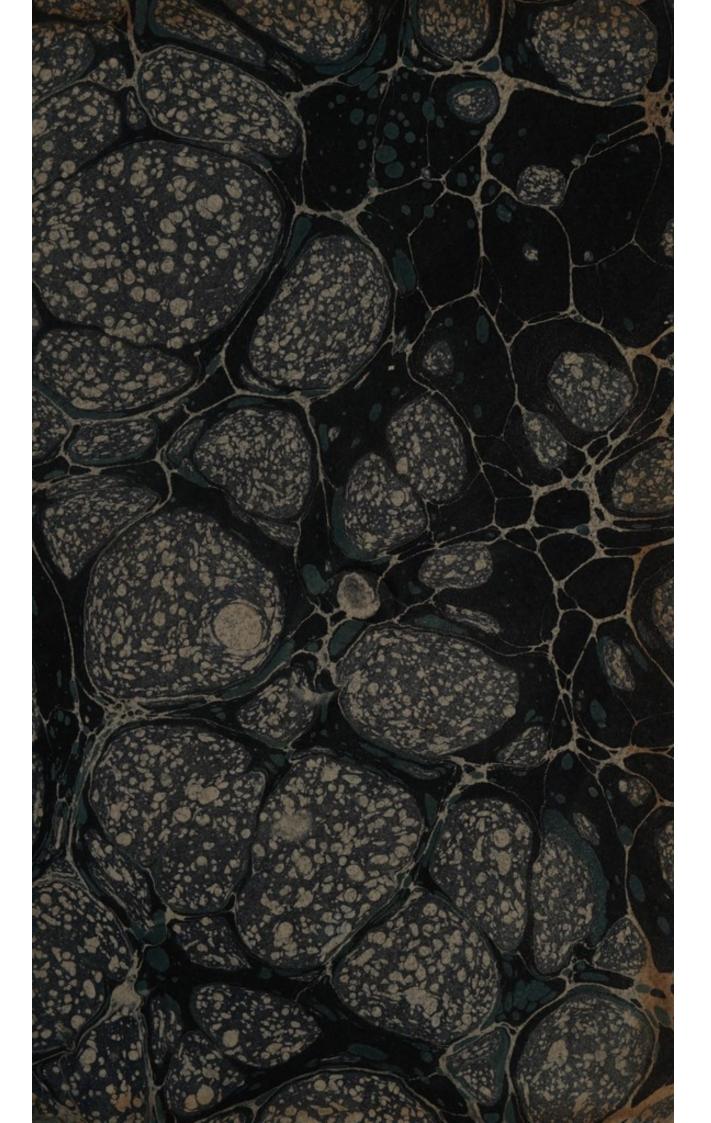
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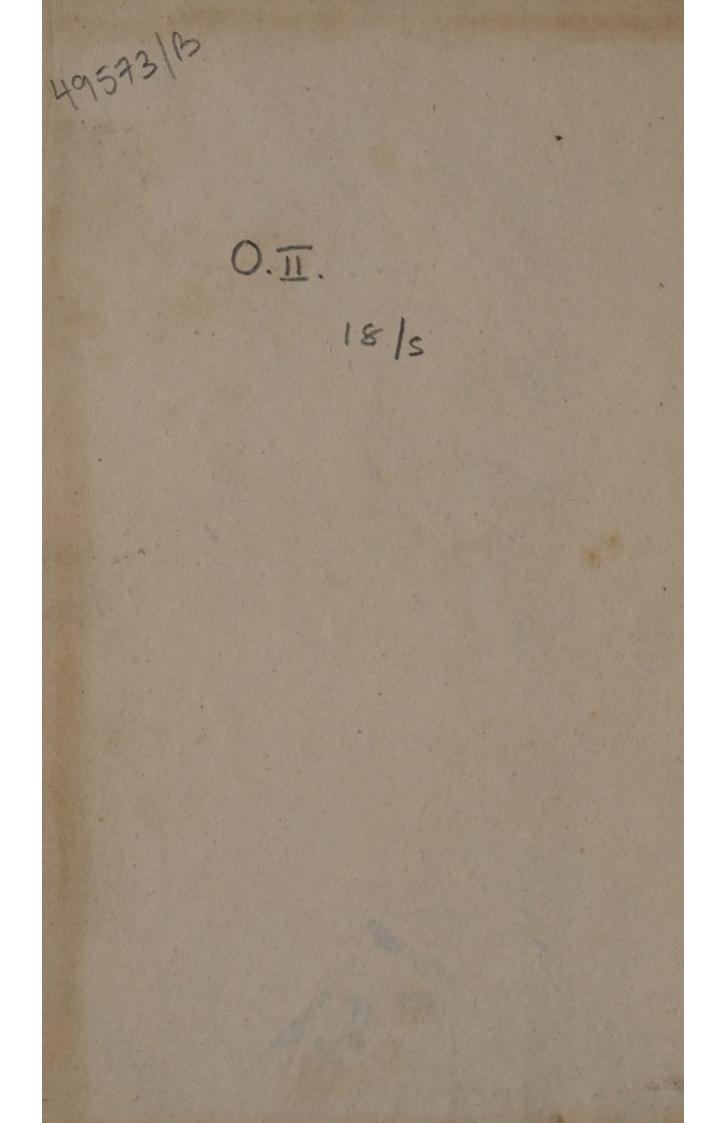


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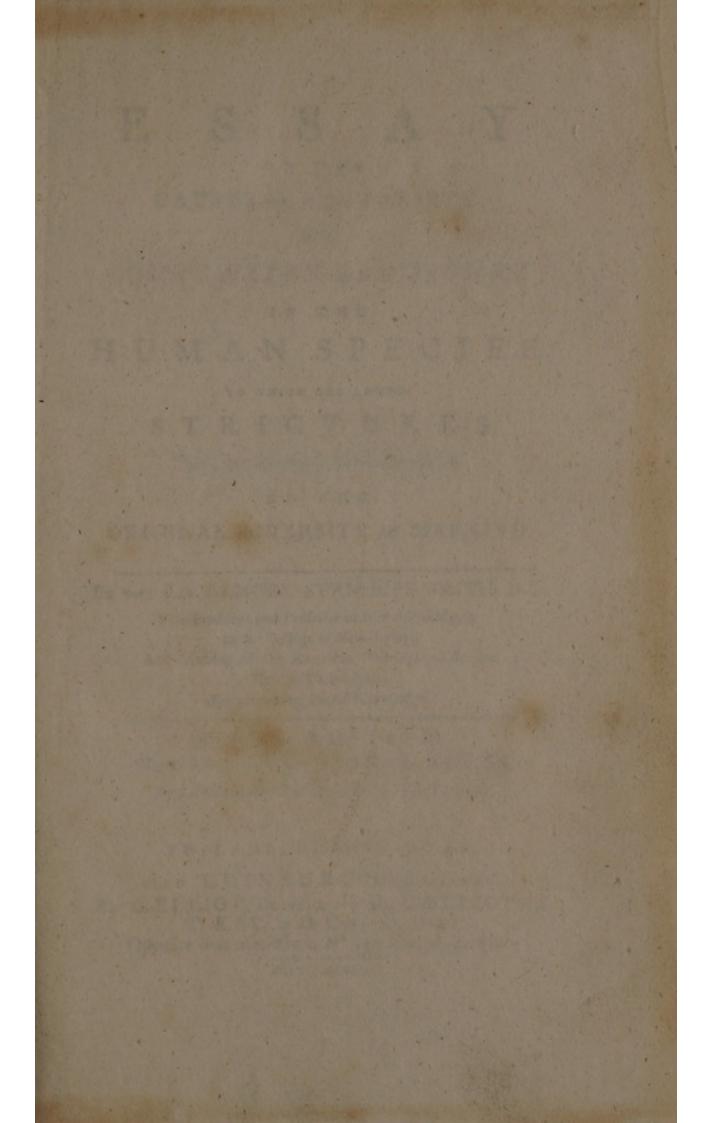


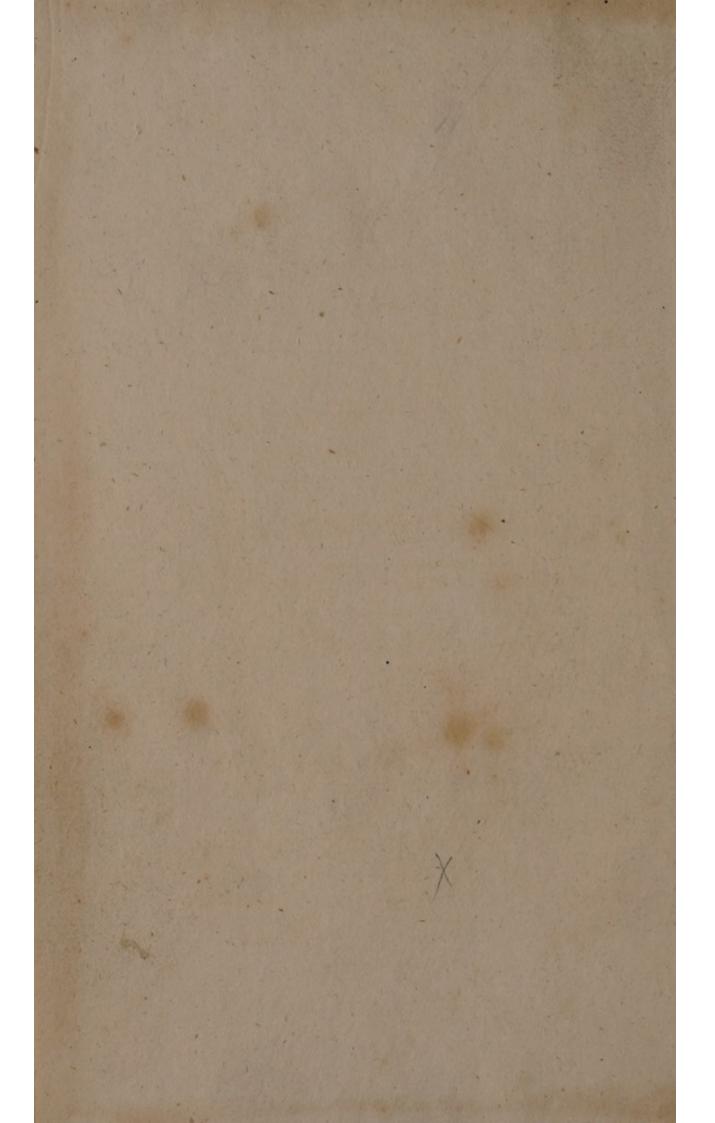












# ESSAY

ON THE

CAUSES OF THE VARIETY

### OF

COMPLEXION AND FIGURE

IN THE

### HUMAN SPECIES.

TO WHICH ARE ADDED,

STRICTURES

ON LORD KAMES'S DISCOURSE

#### ONTHE

ORIGINAL DIVERSITY OF MANKIND.

### BY THE REV. SAMUEL STANHOPE SMITH, D.D.

Vice-Prefident and Profeffor of Moral Philosophy In the College of New-Jerfey; And Member of the American Philosophical Society Held at Philadelphia, For promoting Ufeful Knowledge.

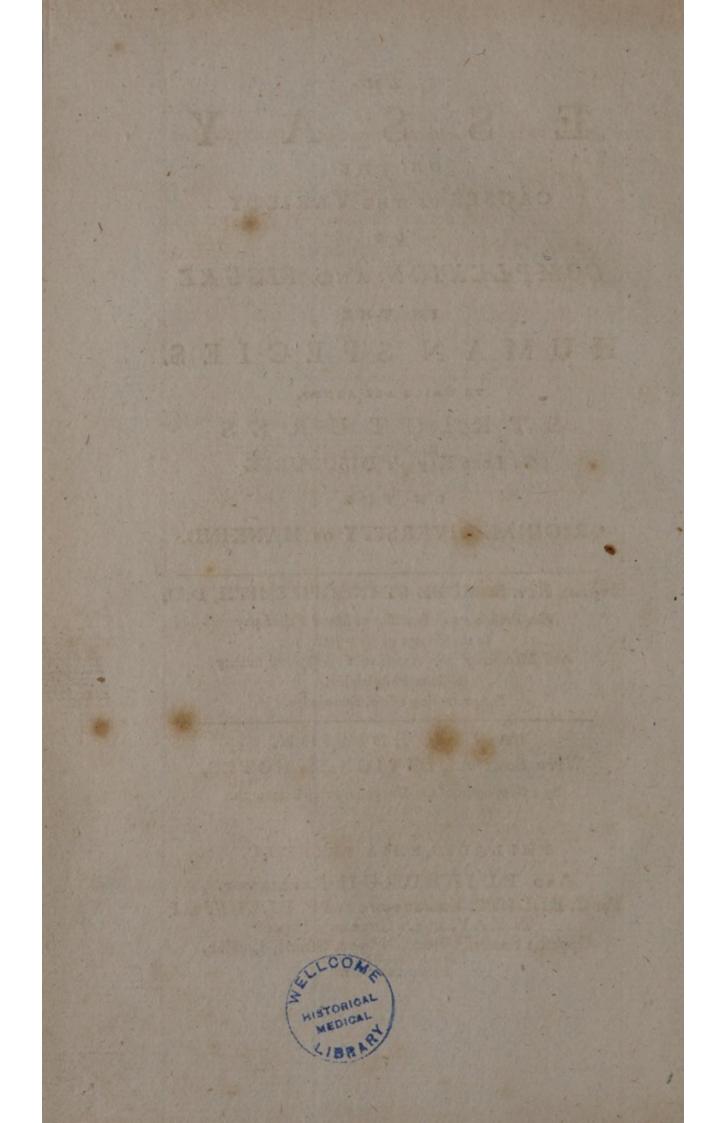
### A NEW EDITION. WITH SOME ADDITIONAL NOTES,

By a Gentleman of the UNIVERSITY of Edinburgh.

### PHILADELPHIA PRINTED,

AND EDINBURGH REPRINTED, For C. ELLIOT, EDINBURGH; and C. ELLIOT and T. KAY, at Dr CULLEN'S HEAD, Opposite Somerfet-Place, N° 332. Strand, London.

M,DCC,LIXXVIII.



THE fubftance of the following Effay was delivered in the annual Oration, before the Philofophical Society in Philadelphia, February 28th, 1787.—And the whole is publifhed at the request of the Society.

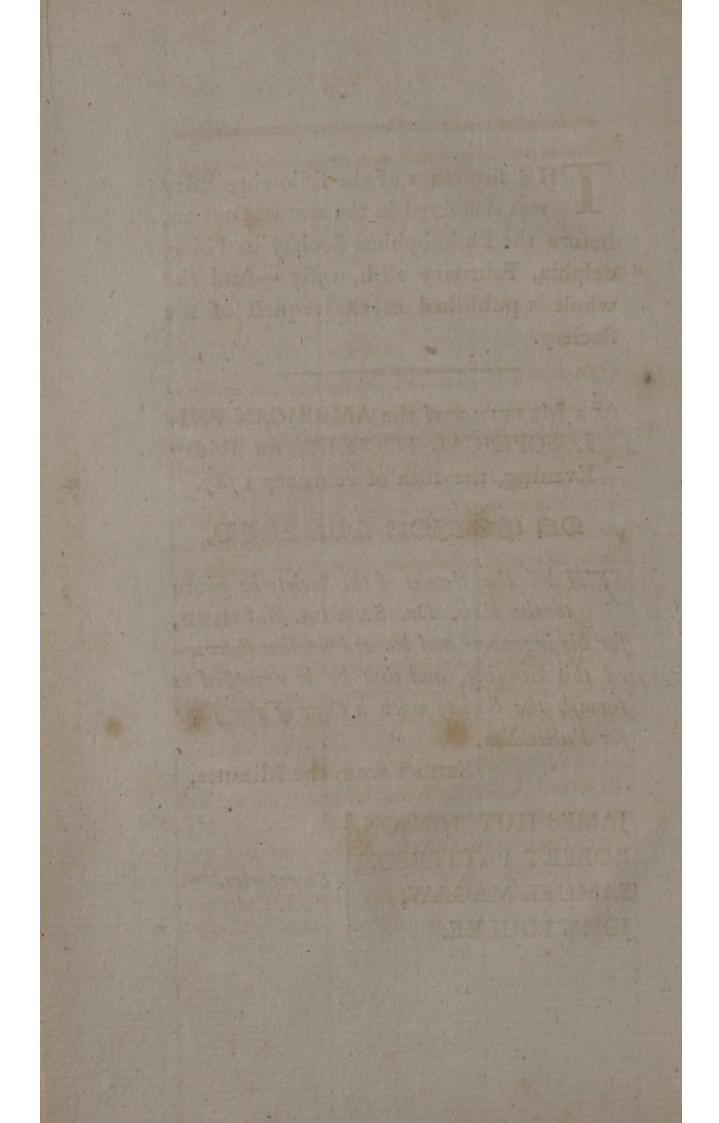
At a MEETING of the AMERICAN PHI-LOSOPHICAL SOCIETY, on Friday Evening, the 28th of February 1787.

DR HDTJDR DRRERED,

THAT the thanks of the Society be given to the Rev. Dr. SAMUEL S. SMITH, for his ingenious and learned Oration delivered this Evening, and that he be requested to furnish the Society with a Copy of the same for Publication.

Extract from the Minutes,

JAMES HUTCHINSON, ROBERT PATTERSON, SAMUEL MAGAW, JOHN FOULKE.



### PREFACE

### BY THE EDITOR.

THERE is certainly no fubject in the fcience of NATURAL HISTORY more curious and interesting than that which respects the variety of COMPLEX-ION and of FIGURE among mankind :---And although much has been written to point out these varieties, and to investigate the causes which have produced them, yet hitherto but little accurate information has been detived from the most laborious researches of the first naturalists of the age.

The writings of Jefuits and of Buccaniers are the principal fources from which our knowledge of man in his *favage* flate has been derived; but the falfehoods and the errors with which their works are pregnant, are daily becoming more evident; and those fystems or hypotheses, which were established on authorities fo extremely weak, are now tottering into that contempt and neglect, which must necessfarily await every fystem whose basis is not constructed of facts.

DURING the last 60 years, we have collected more data concerning the natural history of man than have, perhaps, been given to us in every preceding age; and it would certainly be uncandid not to observe that it is to Britain we are chiefly indebted for this augmentation of our knowledge of the Human Species.—The three voyages of that great, but unfortunate, navigator Captain Cook, have especially contributed to eradicate former errors, and to establish permanent truths in the history of man.

BUT notwithstanding the large collection of facts of which we are possessed, the Natural History of Man still continues among the most imperfect subjects of human inquiry. The difficulties necessarily attendant on this part of knowledge are extremely obvious; but, independent of these difficulties, there are other circumstances which, for some time at least, must leave a chasm in the history of our species.

THOSE extensive regions of Africa and of America, with the limits of which we are fcarcely acquainted, will, no doubt, furnish future philosophers with new varieties of man: varieties whose causes will afford ample room for speculation and inquiry.

IF we can rely on the teftimony of fome voyagers and travellers, there are tribes of men in the northern continent of the New World, whofe COMPLEXION, in particular, differs very effentially from that of the other nations of Indians \*; and whofe hiftory, therefore, could not fail of being interefting to the philosopher.

THUS, it is affirmed, that in the year 1774, the crew of a Spanish frigate discovered a *white* and *fair* nation on the west coast of America, in the latitude of 55° 43'<sup>+</sup>. Were this fact more authentically decided, it

\* Memoire fur les Pays de l'Afie et de l'Amerique, par J. N. Buache. Paris, 1775.

+ La Hontan, Nouv. Voyage. lett. 16. vol. I.

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would, as Mr Zimmerman observes, afford new matter to many fystems, and it might, perhaps, have no inconconfiderable influence on our notions concerning the operation of PHYSICAL causes.

THE noble ardor for difcovery and inveftigation which fo eminently characterifes the eighteenth century, it is to be hoped, will not fuffer us to remain much longer ignorant of the natural hiftory of our fpecies:—New phenomena of Complexion and of Figure will daily be brought to light; and the hiftory of man will then affume its juft ftation among the fubjects of human inquiry.

In the prefent ftate of our knowledge, a *fystematic* view of the Natural Hiftory of Man can hardly be expected; a collection of facts arranged with but little attention to method is all we can naturally hope for.

THE author of the work now before us, furnishes us, however, with an instance how much may be accomplished, evenby an individual, in a subject replete with difficulties, when genius and judgment are aided by labour, and when the object is pursued with a steady regard to truth.

BUT it is not our intention to enter into any panegyric of the Effay of Dr Smith;—the public will ever judge for themfelves, and pay the tribute of applaufe where it is due.

THE work was originally printed in Philadelphia, and the prefent edition has been carefully corrected from a copy containing a great number of alterations, &c. in the author's own hand-writing, with which the Editor was fortunately furnished.

### PREFACE

IT was our original intention to have greatly enlarged both the ESSAY and the STRICTURES, with Notes and Illustrations; but a variety of unforefeen circumflances have prevented us from accomplishing this object :--we cannot, therefore, but apologife for the small number we have added ;--though we hope the long delay of the work will be, in some measure, compensated for by the superior neatness and correctness of this European Edition.

EDINEURGH, 3 April, 1778. 5

## ESSAY

CAUSES OF THE VARIETY

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COMPLEXION AND FIGURE

HUMAN SPECIES,

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In the hiftory and philosophy of human nature, one of the first objects that strikes an observer is the variety of complexion and of figure among mankind. To affign the causes of this phenomenon has been frequently a subject of curious speculation. Many philosophers have refolved the difficulties with which this inquiry is attended, by having recours to the arbitrary hypothesis that men are origi-

nally fprung from different flocks, and are therefore divided by nature into different fpecies\*. But as we are not at liberty to make this fuppofition, fo I hold it to be unphilofophical to recur to hypothefis, when the whole effect may, on proper investigation, be accounted for by the ordinary laws of nature.

On this difcuffion I am now about to enter; and fhall probably unfold, in its progrefs, fome principles, the full importance of which will not be obvious, at first view, to those who have not been accustomed to observe the operations of nature with minute and careful attention. Principles, however, which, experience leads

\* It is no finall objection to this hypothefis, that thefe fpecies can never be afcertained. We have no means of diftinguishing how many were originally formed, or where any of them are now to be found. And they must have been long fince fo mixed by the migrations of mankind, that the properties of each fpecies can never be determined. Befides, this fuppofition unavoidably confounds the whole philosophy of human nature. See conclusion of this Essay.

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me to believe, will acquire additional evidence from time and observation.

Of the causes of these varieties among mankind, I shall treat under the heads-

### I. Of CLIMATE.

## II. Of the STATE of SOCIETY.

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In treating this fubject, I fhall not efpoufe any peculiar fystem of medical principles which, in the continual revolutions of opinion, might be in hazard of being afterwards difcarded. I shall, as much as poffible, avoid using terms of art; or attempting to explain the manner of operation of the causes, where diversity of opinion among physicians has left the subject in doubt.

And, in the beginning, permit me to make one general remark, which must often have occurred to every judicious inquirer into the powers both of moral and B 2

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of phyfical caufes-that every permanent and characteriftical variety in human nature, is effected by flow and almost imperceptible gradations. Great and fudden changes are too violent for the delicate conftitution of man, and always tend to destroy the fystem. But changes that become incorporated, and that form the character of a climate or a nation, are progreffively carried on through feveral generations, till the caufes that produce them have attained their utmost operation. In this way, the minutest causes, acting con\_ stantly, and long continued, will neceffarily create great and confpicuous differences among mankind.

1. Of the first class of causes, I shall treat under the head of climate.

In tracing the globe from the pole to the equator, we obferve a gradation in the complexion nearly in proportion to the latitude of the country. Immediately below the arctic circle a high and fanguine colour prevails. From this you defcend to

the mixture of red and white. Afterwards fucceed, the brown, the olive, the tawny, and at length the black, as you proceed to the line. The fame distance from the fun, however, does not, in every region, indicate the fame temperature of climate. Some secondary causes must be taken into confideration as correcting and limiting its influence. The elevation of the land, its vicinity to the fea, the nature of the foil, the state of cultivation, the course of winds, and many other circumstances, enter into this view. Elevated and mountainous countries are cool in proportion to their altitude above the level of the fea-Vicinity to the ocean produces opposite effects in northern and fouthern latitudes; for the ocean, being of a more equal temperature than the land, in one cafe corrects the cold, in the other moderates the heat. Ranges of mountains, fuch as the Appenines in Italy, and Taurus, Caucafus, and Imaus, in Afia, by interrupting the courfe of cold winds, render the protected countries below them warmer, and the coun-

B 3

tries above them colder, than is equivalent to the proportional difference of latitude. The frigid zone in Afia is much wider than it is in Europe; and that continent hardly knows a temperate zone. From the northern ocean to Caucafus, fays Montesquieu, Afia may be confidered as a flat mountain. Thence to the ocean that washes Persia and India, it is a low and level country without feas, and protected by this immenfe range of hills from the polar winds. The Afiatic is, therefore, warmer than the European continent below the fortieth degree of latitude; and, above that latitude, is much more cold. Climate also receives some difference from the nature of the foil; and fome from the degree of cultivation .- Sand is fusceptible of greater heat than clay; and an uncultivated region, fhaded with forefts, and covered with undrained marshes, is more frigid in northern, and more temperate in fouthern, latitudes, than a country laid open to the direct and conftant action of the fun. History informs, that, when

Germany and Scythia were buried in forefts, the Romans often transported their armies across the frozen Danube; but, fince the civilization of those barbarous regions, the Danube rarely freezes. Many other circumstances might be enumerated, which modify the influence of climate. These will be fufficient to give a general idea of the fubject. And by the intelligent reader they may be easily extended, and applied to the state of particular countries \*.

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\* It has long been known, that elevated or mountainous countries are much cooler than countries confifting of plains and valleys. Indeed, the difference of heat in thefe opposite fituations, is fo confiderable, that even under the equator the mountains are covered with collections of eternal fnow. As we afcend the Alps, the Andes, and the Apalachian, those great chains, the former of which divides fome of the fairest portions of Europe, and the latter, which run through almost the whole extent of America, we obferve *nearly* a regular diminution in the temperature of the atmosphere. On the fummits of fome of those mountains, we in vain look for the genial influence of the fun:—Every animal, every vegetable, exhibits

From the preceding observations we derive this conclusion; That there is a general

inconteftable evidence of *its* feeble operation :--Even in the warmeft regions of our globe, therefore, on the more elevated lands, the complexion of man may remain but little influenced by heat. Thus, although at the foot of the Andes we find a race of fwarthy men; yet on the valley of Quito, which is elevated feveral thoufand feet from the level of the fea, the inhabitants are by no means fwarthy.

The VICINITY of a country to the fea will alfo, in fome degree, influence its climate. The temperature of the ocean is more equable than that of the land : Hence countries bordering on the ocean will be cooler in fummer and warmer in winter, than fuch as are at a diffance from it.

From the nature of the SOIL, climate alfo receives fome alteration. The fandy foils, fuch as are to be found in many of the eaftern countries, are well known for their infupportable heat.

CULTIVATION has a most wonderful influence in altering the climate of a country. This the experience of every day teaches us : and we may lay it down as a fundamental proposition, that a country buried in forest, and covered with marshes, will be much

ratio of heat and cold, which forms what we call climate, and a general refemblance

sable varieties from the infinite con

colder than a country which has undergone a degree of cultivation. In the latter cafe, the rays of the fun have a direct action upon the furface of the earth; through the medium of which, it is well known our atmosphere is principally heated : whereas, in the former cafe, the rays of the fun with difficulty communicate their influence to the earth; and the prodigious perspiration from the leaves and other furfaces of the vegetables, together with the evaporation from the marfhes, will prove a great fource of cold. This change in the climate of a country from cultivation is frequently effected very rapidly. Thus in different parts of North America, fince the beginning of the prefent century, and even in the memory of many who have fcarcely paffed the period of manhood, the feverity of the winter feafons has been greatly mitigated : And it may reafonably be conjectured (notwithstanding what Mr Kirwan feems to suppose to the contrary), that in the lapse of a few centuries, the climate of this continent will be as moderate as that of Europe. Similar changes from cultivation have been obferved in the climate of Germany fince the time of Julius Cæfar, and in that of Ruffia during the prefent century. Nor is the temperature of these climates as yet by any means statiopary. Germany, it is true, is in general well culti-

of nations, according to the latitude from the equator; fubject, however, to innumerable varieties from the infinite combinations of the circumstances I have fuggested. After having exhibited the general effect, I shall take up the capital deviations

vated : but the extensive deferts and forefts which lie to its north and north-east, render it at prefent much colder than it otherwife would be :- For the state of uncultivated lands adjacent to the best cultivated country, has a great influence on the climate of the latter. Thus 1700 years ago, Italy was much better cultivated than it is at prefent; and yet at that time the cold of the climate was fo intenfe as to freeze the wine in their cafks. Virgil, who relates this fact, alfo gives directions for fheltering cattle from the frost and fnow of the winter feason; directions which at prefent are entirely unnecessary to the Italian. The ingenious Dr Williamfon has beautifully explained this feeming difficulty, by having recourfe to the ftate of the countries which lie to the north of Italy. Thefe, he observes, in the time of Cæfar, were buried in forefts; and the climate being confequently cold, Italy could not but be confiderably affected : but fince Germany has been better cultivated, its climate, and that of Italy, have both become more temperate.

EDITOR.

from it that are found in the world, and endeavour to flow, that they naturally refult from certain concurrences of these modifying causes,

Our experience verifies the power of climate on the complexion. The heat of fummer darkens the skin, the cold of winter chafes it, and excites a fanguine colour. These alternate effects in the temperate zone tend in some degree to correct one another : But when heat or cold predominates in any region, it impresses, in the fame proportion, a permanent and characteriftical complexion. The degree in which it predominates may be confidered as a constant cause to the action of which the human body is exposed. This cause will affect the nerves by tenfion or relaxation, by dilatation or contraction-It will affect the fluids by increasing or leffening the perfpiration, and by altering the proportions of all the fecretions-It will peculiarly affect the fkin by the immediate operation of the atmosphere, of the fun's rays,

or of the principle of cold upon its delicate texture. Every fenfible difference in the degree of the caufe, will create a vifible change in the human body. To fuggeft at prefent a fingle example .--- A cold and piercing air chafes the countenance and exalts the complexion. An air that is warm and mifty relaxes the conflictution, and gives some tendency, in valetudinarians efpecially, to a bilious hue. Thefe effects are transient, and interchangeable in countries where heat and cold alternately fucceed in nearly equal proportions. But when the climate conftantly repeats the one or the other of these effects in any degree, then, in proportion, an habitual colour begins to be formed. Colour and figure may be styled habits of the body. Like other habits, they are created, not by great and fudden impreffions, but by continual and almost imperceptible touches. Of habits both of mind and body, nations are fusceptible as well as individuals. They are transmitted to offspring, and augmented by inheritance. Long in growing to

maturity, national features, like national manners, become fixed, only after a fucceffion of ages. They become, however, fixed at laft. And if we can afcertain any effect produced by a given flate of weather or of climate, it requires only repetition during a fufficient length of time, to augment and imprefs it with a permanent character. The fanguine countenance will, for this reafon, be perpetual in the higheft latitudes of the temperate zone; and we fhall for ever find the fwarthy, the olive, the tawny, and the black, as we defcend to the fouth.

The uniformity of the effect in the fame climate, and on men in a fimilar flate of fociety, proves the power and certainty of the caufe. If the advocates of different human fpecies fuppofe that the beneficent Deity hath created the inhabitants of the earth of different colours, becaufe thefe colours are beft adapted to their refpective zones; it furely places his benevolence in a more advantageous light to fay, he has given to human nature the power of ac-

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commodating itfelf to every zone. This pliancy of nature is favourable to the unions of the most distant nations, and facilitates the acquifition and the extension of fcience, which would otherwise be confined to few objects, and to a very limited range. It opens the way particularly to the knowledge of the globe which we inhabit; a fubject fo important and interesting to man.-It is verified by experience. Mankind are for ever changing their habitations by conquest or by commerce. And we find them in all climates, not only able to endure the change, but fo affimilated by time, that we cannot fay with certainty whofe anceftor was the native of the clime, and whole the intruding foreigner.

the caute. If the advocates of different

I will here propofe a few principles on the change of colour, that are not liable to difpute, and that may tend to fhed fome light on this fubject.

In the beginning, it may be proper to obferve, that the fkin, though extremely

delicate and eafily fusceptible of impreffion from external causes, is, from its flructure, among the least mutable parts of the body\*. Change of complexion does for this reason continue long, from whatever cause it may have arisen. And if the causes of colour have deeply penetrated the texture of the skin, it becomes perpetual. Figures, therefore, that are stained with paints inferted by punctures made in its substance, can never be effaced †. An ardent substance, can never be effa-

\* Anatomists inform us that, like the bones, it has few or no vessels, and therefore is not liable to those changes of augmentation or diminution, and continual alteration of parts, to which the fless, the blood, and whole vascular fystem are subject.

of the labourer, and thickens the ficin till

+ It is well known what a length of time is required to efface the freckles contracted in a fair fkin by the expofure of a fingle day. Freckles are feen of all fhades of colour. They are known to be created by the fun; and become indelible by time. The fun has power equally to change every part of the fkin, when equally exposed to its action. And it is, not improperly, obferved by fome writers, that colour may be juftly confidered as an univerfal freckle.

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penetrate its texture. Even in our climate, the fkin, when first exposed to the direct and continued action of the folar rays, is inflamed into blifters, and fcorched through its whole fubstance. Such an operation not only changes its colour, but increafes its thickness. The stimulus of heat exciting a greater flux of humours to the fkin, tends to incraffate its fubstance, till it becomes dense enough to refift the action of the exciting caufe\*. On the fame principle, friction excites blifters in the hand of the labourer, and thickens the fkin till it becomes able to endure the continued operation of his inftruments. The face or the hand, exposed uncovered during an entire fummer, contracts a colour of the darkeft brown. In a torrid climate, where the inhabitants are naked, the colour will be as much deeper as the ardor of the fun is both more conftant and more intenfe.

\* Anatomists know that all people of colour have their skin thicker than people of a fair complexion, in proportion to the darkness of the hue.

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And if we compare the dark hue that, among us, is fometimes formed by continual exposure, with the colour of the African, the difference is not greater than is proportioned to the augmented heat and constancy of the climate \*.

The principle of colour is not, however, to be derived folely from the action of the fun upon the fkin. Heat, efpecially when united with putrid exhalations that copioufly impregnate the atmosphere in warm and uncultivated regions, relaxes the nervous fystem. The bile in confequence is augmented, and shed through the whole mass of the body. This liquor tinges the complexion of a yellow colour, which affumes by time a darker hue. In many other instances, we see that relaxation,

\* If the force of fire be fufficient at a given diftance to fcorch the fuel, approach it as much nearer as is proportional to the difference of heat between our climate and that of Africa, and it will burn it black.

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whether it be caufed by the vapours of ftagnant waters, or by fedentary occupations, or by lofs of blood, or by indolence, subjects men to diforders of the bile, and difcolours the skin. It has been proved by phyficians, that in fervid climates the bile is always augmented in proportion to the heat\*. Bile exposed to the fun and air, is known to change its colour to black -black is therefore the tropical hue. Men who remove from northern to fouthern regions are usually attacked by dangerous diforders that leave the blood impoverifhed, and fhed a yellow appearance over the skin. These diforders are perhaps the efforts of nature in breaking down and changing the conftitution, in order to accommodate it to the climate; or to give it that degree of relaxation, and to mingle with it that proportion of bile, which is neceffary for its new fituation †. On this dark ground the hue of the climate be-

\* See Dr McClurg on the bile.

+ Phyficians differ in their opinions concerning the flate of the bile in warm countries. Some fup-

comes, at length, deeply and permanently impreffed.

On the fubject of the phyfical caufes of colour, I fhall reduce my principles to a few fhort propositions, derived chiefly from experience and observation, and placed in fuch connection as to illustrate and fupport one another. They may be enlarged and multiplied by men of leifure and talents who are disposed to purfue the inquiry farther.

1. It is a fact, that the fun darkens the fkin, although there be no uncommon redundancy of the bile.

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-the interior, which is allo whice; -and

pofe that it is thrown out to be a corrector of putridity. Others fuppofe, that in all relaxed habits, the bile is itfelf in a putrid ftate. I decide not among the opinions of phyficians. Whichever be true, the theory I advance will be equally juft. The bile will be augmented; it will tinge the fkin; and there, whether in a found or putrid ftate, will receive the action of the fun and atmosphere, and be, in proportion, changed towards black.

becemes in that cafe excellinely dark.

2. It is also a fact, that redundancy of bile darkens the skin, although there be no uncommon exposure to the sun \*.

3. It is a fact equally certain, that where both caufes co-operate, the effect is much greater, and the colour much deeper  $\uparrow$ .

4. It is difcovered by anatomists, that the skin confists of three lamellæ, or folds: ---the external, which in all nations is an extremely fine and transparent integument; --the interior, which is also white;---and an intermediate, which is a cellular mem-brane filled with a mucous substance.

5. This fubftance, whatever it be, is altered in its appearance and colour with every change in the conftitution—As ap-

\* Redundancy of bile long continued, as in the cafe of the black jaundice, or of extreme melancholy, creates a colour almost perfectly black.

† This we fee verified in those perfons who have been long fubject to bilious diforders, if they have been much exposed to the fun. Their complexion becomes in that case extremely dark.

pears in blufhing, in fevers, or in confequence of exercife. A lax nerve, that does not propel the blood with vigour, leaves it pale and fallow—it is inftantly affected with the fmalleft furcharge of bile, and ftained of a yellow colour.

6. The change of climate produces a proportionable alteration in the internal ftate and ftructure of the body, and in the quantity of the fecretions\*. In fouthern climates particularly, the bile, as has been remarked, is always augmented.

7. Bile, exposed to the fun and air in a stagnant, or nearly in a stagnant state, tends in its colour towards black.

#### 8. The fecretions, as they approach the

\* This appears from the diforders with which men are ufually attacked on changing their climate; and from the difference of figure and afpect which takes place in confequence of fuch removals. This latter reflection will afterwards be further illustrated.

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extremities, become more languid in their motion, till at length they come almost to a fixed state in the skin.

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9. The aqueous parts escaping eafily by perspiration through the pores of the skin, those that are more dense and incrassated remain in a mucous or glutinous state in that cellular membrane between the interior skin and the scarf, and receive there, during a long time, the impressions of external and discolouring causes.

10. The bile is peculiarly liable to become mucous and incraffated\*; and in this flate, being unfit for perfpiration, and attaching itfelf flrongly to that fpongy tiffue of nerves, it is there detained for a length of time, till it receives the repeated action of the fun and atmosphere.

11. From all the preceding principles taken together, it appears that the com-

\* In this flate it is always copioufly found in the flomach and inteflines, at leaft in confequence of a bilious habit of body.

plexion in any climate will be changed towards black, in proportion to the degree of heat in the atmosphere, and to the quantity of bile in the skin.

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12. The vapours of ftagnant waters with which uncultivated regions abound; all great fatigues and hardfhips; poverty and naftinefs; tend, as well as heat, to augment the bile. Hence, no less than from their nakedness, favages will always be discoloured, even in cold climates. For though cold, when affifted by fucculent nourifhment, and by the comfortable lodging and clothing furnished in civilized fociety, propels the blood with force to the extremities, and clears the complexion; yet when hardfhips and bad living relax the fystem, and when poor and shivering favages, under the arctic cold, do not possels those conveniences that, by opening the pores and cherishing the body, affist the motion of the blood to the furface, the florid and fanguine principle is repelled, and the complexion is left to be formed

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by the dark coloured bile; which, in that eafe, becomes the more dark, becaufe the obstruction of the pores preferves it longer in a fixed state in the skin. Hence, perhaps, the deep Lapponian complexion, which has been esteemed a phenomenon fo difficult to be explained.

13. Cold, where it is not extreme \*, is followed by a contrary effect. It corrects the bile, it braces the conftitution, it propels the blood to the furface of the body with vigour, and renders the complexion clear and florid †.

\* Extreme cold is followed by an effect fimilar to that of extreme heat. It relaxes the conftitution by overstraining it, and augments the bile. This, together with the fatigues and hardships and other evils of favage life, renders the complexion darker beneath the arctic circle, than it is in the middle regions of the temperate zone even in a favage state of fociety.

+ Cold air contains a confiderable quantity of nitre; and this ingredient is known to be favourable to a clear and ruddy complexion.—The accurate chemistry of the present age has taught us, that the ancient and vulgar opinion that air contains NITRE,

Such are the obfervations which I propofe concerning the proximate caufe of colour in the human fpecies. But I remark, with pleafure, that whether this theory be well founded or not, the fact may be perfectly afcertained, that climate has all that power to change the complexion which I fuppofe, and which is neceffary to the prefent fubject.—It appears from the whole flate of the world—it appears from obvious and undeniable events within the memory of hiftory, and from events even within our own view.

Encircle the earth in every zone, and making those reasonable allowances which have been already suggested, and which will afterwards be farther explained, you

is founded merely in theory and in ignorance.—The clear and florid" complexion, therefore, is not to be attributed to any nitrous principle contained in, but folely to the ftimulus of, cold air. The effect of nitre on the inanimate muscular fibre is well known; but, it is to be prefumed that its effect on the complexion of the living body would, even in large quantities, be very inconfiderable. EDITOR.

will fee every zone marked by its diffinct and characteristical colour. The black prevails under the equator; under the tropics, the dark copper; and on this fide of the tropic of Cancer, to the feventieth degree of north latitude, you fucceffively difcern the olive, the brown, the fair, and the fanguine complexion. Of each of these there are several tints or shades. And under the arctic circle, you return again to the dark hue. This general uniformity in the effect indicates an influence in the climate, that, under the fame circumstances, will always operate in the fame manner. The apparent deviations from the law of climate that exift in different regions of the globe will be found to confirm it, when I come, in the progrefs of this difcourse, to point out their causes \*.

The power of climate, I have faid, appears from obvious and undeniable events

\* Independently on the effects of the flate of fociety which will be hereafter illustrated, there are, in reality, various climates under the fame parallels.

within the memory of hiftory. From the Baltic to the Mediterranean you trace the different latitudes by various shades of colour. From the fame, or from nearly refembling nations, are derived the fair German, the dark Frenchman, the fwarthy Spaniard and Sicilian. The fouth of Spain is diftinguished by complexion from the north. The fame observation may be applied to most of the other countries of Europe. And if we would extend it beyond Europe to the great nations of the east, it is applicable to Turkey, to Arabia, to Perfia, and to China. The people of Pekin are fair; at Canton they are nearly black. The Perfians near the Cafpian fea are among the faireft people in the world \*; near the gulph of Ormus they are of a dark olive. The inhabitants of the Stony and Defert Arabia are tawny; while those of Arabia the Happy are as black as the Ethiopians. In thefe ancient nations, colour holds a regular progression with the lati-

\* The fair Circassian has become proverbial of the women of a neighbouring nation.

view, may be Crown in the inhabitants of

titude from the equator. The examples of the Chinefe and the Arabians are the more decifive on this subject, because they are known to have continued, from the remotest antiquity, unmingled with other nations. The latter, in particular, can be traced up to their origin from one family. But no example can carry with it greater force on this fubject than that of the Jews. Descended from one stock, prohibited by their most facred institutions from intermarrying with other nations, and yet difperfed, according to the divine predictions, into every country on the globe, this one people is marked with the colours of all, Fair in Britain and Germany, brown in France and in Turkey, fwarthy in Portugal and in Spain. olive in Syria and in Chaldea, tawny or copper coloured in Arabia and in Egypt\*.

Another example of the power of climate, more immediately fubject to our own view, may be shown in the inhabitants of

\* Buffon's Nat. Hift. Vol. III.

these United States. Sprung within a few years from the British, the Irish, and the German nations, who are the fairest people in Europe, they are now fpread over this continent from the thirty-first to the fortyfifth degree of northern latitude. And, notwithstanding the temperature of the climate-notwithstanding the shortness of the period fince their first establishment in America-notwithstanding the continual mixture of Europeans with those born in the country-notwithftanding previous ideas of beauty that prompted them to guard against the influence of the climate -and notwithstanding the state of high civilization in which they took pofferfion. of their new habitations, they have already fuffered a visible change. A certain countenance of paleness and of softness strikes a traveller from Britain the moment he arrives upon our fhore. A degree of fallownefs is visible to him, which, through familiarity, or the want of a general ftandard of comparison, hardly attracts our observation. This effect is more obvious

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in the middle, and still more in the fouthern, than in the northern flates. It is more observable in the low lands near the ocean, than as you approach the Apalachian mountains; and more in the lower and labouring classes of people, than in families of eafy fortune, who poffess the means and the inclination to protect their complexion. The inhabitants of New-Jerfey, below the falls of the rivers, are fomewhat darker in their colour than the people of Pennfylvania; both becaufe the land is lower in its fituation, and becaufe it is covered with a greater quantity of flagnant water: A more fouthern latitude augments the colour along the fhores of Maryland and Virginia. At length the low lands of the Carolinas and of Georgia degenerate to a complexion that is but a few fhades lighter than that of the Iroquois. I fpeak of the poor and labouring claffes of the people, who are always first and most deeply affected by the influence of climate, and who eventually give the national complexion to every country. The change of

complexion which has already paffed upon these people is not easily imagined by an inhabitant of Britain, and furnishes the clearest evidence to an attentive observer of nature, that, if they were thrown, like the native Indians, into a savage state, they would be perfectly marked, in time, with the same colour \*. Not only their com-

#### " the camp, though he had been in the woods

In fupport of our author's observation, we may mention the inhabitants of the western frontiers of the United States. These people are, in general, in a ftate of fociety nearly as rude as that of the Indians. Indolence, and an unbounded love of liberty, are the most striking features of their character. They are almost entire strangers to agriculture, and fubfift chiefly by hunting. This mode of fubfiftence has imprinted on them, not only the MANNERS, but even the COMPLEXION and the FEATURES of their favage neighbours. It is alfo worthy of obfervation, that those Europeans, and others, who have intermixed with the Indians, and have embraced their manners and mode of living, are more efpecially obferved to partake of their appearance. " At the Shawano, " main-camp," fays Mr Adair, " I faw a Pennfylvani-" an, a white man by birth, and in profession a Chri-" ftian, who, by the inclemency of the fun, and " his endeavours of improving the red colour, was " tarnished with as deep an Indian hue, as any of

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plexion, but their whole conflitution, feems to be changed. So thin and meagre is the habit of the poor, and of the overfeers of their flaves, that, frequently, their limbs appear to have a difproportioned length to the body, and the fhape of the fkeleton is evidently difcernible through the fkin\*:

the finne colour "... Not only chair com-

<sup>es</sup> the canip, though he had been in the woods <sup>es</sup> only the fpace of four years." (*The Hiftory of the American Indians*, &c. p. 3. 4.) If, then, thefe remarkable changes are wrought on the fystem, in the term of a few years, we ought not to be furprifed at feeing even the most opposite tints and features produced from the long and permanent operation of PHYSICAL and of MORAL causes. EDITOR.

\* The dark colour of the natives of the Weft-India Islands is well known to approach very near a dark copper. The defcendents of the Spaniards in South America are already become copper-coloured: (See Phil. Tranf. of Roy. Soc. Lond. Nº 476. Sect. 4.) The Portuguese of Mitomba in Sierra Leona on the coast of Africa have, by intermatrying with the natives, and by adopting their manners, become, in a few generations, perfectly affimilated in aspect, figure, and complexion: (See Treatife on the Trade of Great Britain to Africa, by an African merchant.) And Lord Kames, who cannot be suspected of partiality

If thefe men had been found in a diftant region where no memory of their origin remained, the philofophers who efpoufe the hypothefis of different fpecies of men would have produced them in proof, as they have often done nations diftinguished by smaller differences than diftinguish these from their European ancestors\*. Examples ta-

mericially on the fubied, feem

on this fubject, fays of another Portuguefe fettlement on the coaft of Congo, that the defcendents of thofe polifhed Europeans, have become, both in their perfons and their manners, more like beafts than like men. (See Sketches of Man, prel. difc.) Thefe examples tend to ftrengthen the inference drawn from the changes that have happened in the Anglo-Americans. And they flow how eafily climate would affimilate foreigners to natives in the courfe of time, if they would adopt the fame manners, and equally expofe themfelves to its influence.

\* The habit of America is, in general, more flender than that of Britain. But the extremely meagre afpect of the pooreft and loweft clafs of people in fome of the fouthern flates may arife from the following caufe: That the changes produced by climate are, in the first inflance, generally difeases. Hereafter, when the conflictution shall be perfectly accommoda-

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ken from the natives of the United States are the ftronger, because climate has not had time to impress upon them its full character. And the change has been retarded by the arts of society, and by the continual intermixture of foreign nations.

These changes may, to perfons who think superficially on the subject; feem more flow in their progress than is confistent with the principles hitherto laid down concerning the influence of climate. But in the philosophy of human nature, it is worthy of observation, that all na-

ted to the climate, it will by degrees affume a more regular and agreeable figure. The Anglo-Americans, however, will never refemble the native Indians. Civilization will prevent fo great a degeneracy either in the colour or the features. Even if they were thrown back again into the favage ftate, the refemblance would not be complete; becaufe the one would receive the imprefiions of the climate on the ground of features formed in Europe;—the others have received them on the ground of features formed in a very different region of the globe. The effects of fuch various combinations can never be the fame.

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tional changes, whether moral or phyfical, advance by imperceptible gradations, and are not accomplished but in a feries of ages. Ten centuries were requifite to polish the manners of Europe. It is not improbable that an equal fpace of time may be necessary to form the countenance, and the figure of the body ;--- to receive all the infenfible and infinite impreflions of climate ;--- to combine thefe with the effects that refult from the flate of fociety;---to blend both along with perfonal peculiarities; --- and, by the innumerable unions of families, to melt down the whole into one uniform and national countenance\*. It is even questionable, whether, amidst eternal migrations and conquests, any nation in Europe has yet received the full effects

\* In favage life, men more fpeedily receive the characteriftic features of the climate, and of the ftate of fociety: becaufe the habits and ideas of fociety among them are few and fimple; and to the action of the climate they are exposed naked and defencelefs to fuffer its full force at once.

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of these causes. China and Arabia are, perhaps, the only civilized countries in the world, in which they have attained their utmost operation; because they are the only countries in which the people have been able, during a long fucceffion of ages, to preferve themfelves unmixed with other nations. Each parallel of latitude is, among them, diffinctly marked by its peculiar complexion. In no other nations is there fuch a regular and perfect gradation of colour as is traced from the fair natives of Pekin, to Canton, whofe inhabitants are of the darkest copper;-or, from the olive of the Defert Arabia, to the deep black of the province of Yemen. It is plain then, that the caufes of colour, and of other varieties in the human fpecies, have not yet had their full operation on the inhabitants of these United States. Such an operation, however, they have already had, as affords a ftrong proof, and an interefting example, of the powerful influence of climate \*.

\* The reader will pleafe to keep in mind, that in

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The preceding obfervations have been intended chiefly to explain the principle of colour. I proceed now to illustrate the influence of climate on other varieties of the human body.

remarking on the changes that have paffed on the Anglo-Americans, I have in view the mass of the people ; and that I have in view, likewife, natives of the fecond or third generation; and not fuch as are fprung from parents, one or both of whom have been born in Europe; though even with regard to thefe the remarks will be found to hold in a great degree. I am aware that particular inftances may be adduced that will feem to contradict each remark. But fuch examples do not overthrow general conclusions derived from the body of the populace. And thefe inftances, I am perfuaded, will be very rare among those who have had a clear American defcent by both parents, for two or three generations. They will be more rare in the low and level country, where the climate is more different, and the defcents more remote from Europe, than in the countries to the weft where the land rifes into hills. Here the climate is more fimilar to that in the middle of Europe, and the people are more mingled with emigrants from Ireland and Germany.

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It would be impossible, in the compass of a difcourfe like the prefent, to enter minutely into the defcription of every feature of the countenance, and of every limb of the body, and to explain all the changes in each that may poffibly be produced by the power of climate combined with other accidental caufes. Our knowledge of the human conftitution, or of the globe, or of the powers of nature, is, perhaps, not fufficiently accurate and extenfive to enable us to offer a fatisfactory folution of every difficulty that an attentive or a captious obferver might propofe. But if we are able, on just principles, to explain the capital varieties, in figure and afpect, that exift among different nations, it ought to fatisfy a reafonable inquirer; as no minuter differences can be fufficient to constitute a distinct species.

I fhall, therefore, confine my obfervations, at prefent, to those confpicuous varieties that appear in the hair, the figure of the head, the fize of the limbs, and in the principal features of the face.

The hair generally follows the law of the complexion; becaufe its roots, being planted in the skin, derive its nourishment and its colour from the fame fubstance which there contributes to form the complexion. Every gradation of colour in the skin, from the brown to the perfectly black, is accompanied with proportionable shades in the hair. The pale red, or fandy complexion, on the other hand, is usually attended with redness of the hair. Between these two points is found almost every other colour of this excrescence arifing from the accidental mixture of the principles of black and red in different proportions. White hair, which is found only with the fairest skin, seems to be the middle of the extremes, and the ground in which they both are blended \*. The extremes, if I may fpeak fo, are as near to each other as to any point in the circle,

\* That black hair is fometimes fuppofed to be united with the faireft fkin, arifes from the deception which the contraft between the hair and fkin puts upon the fight.

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and are often found to run into one another. The Highlanders of Scotland are generally either black or red. A red beard is frequently united with black hair. And if, in a red or dark coloured family, a child happens to deviate from the law of the houfe, it is commonly to the oppofite extreme. On this observation permit me to remark, that those who deny the identity of human origin, becaufe one nation is red and another is black, might, on the fame principle, deny, to perfons of different complexion, the identity of family. But as the fact, in the latter inftance, is certain, we may, in the former, reafonably conclude, that the flate of nerves or fluids which contributes to produce one or other of these effects in a fingle family, may be the general tendency of a particular climate. In this example, at leaft, we fee that the human conflitution is capable of being moulded, by phyfical caufes, into many of the varieties that diftinguish mankind. It is contrary therefore to found philosophy, which never affigns different .

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causes, without necessity, for similar events, to have recourse, for explaining these varieties, to the hypothesis of several original species\*.

Climate possesses great and evident influence on the hair, not only of men, but of all other animals. The changes which this excresses undergoes in them is at least equal to what it suffers in man. If,

moderate remporature. The cearle and

\* If we fuppose different species to have been created, how shall we determine their number? Are any of them loft? or where fhall we at prefent find them clearly diffinguished from all others? or were the fpecies of men made capable of being blended together, contrary to the nature of other animals, fo that they can never be difcriminated, proving, thereby, that thefe diversities were unnecessary to the end for which they are supposed to be created? If we have reafon, from the varieties that exist in the fame family, or in the fame nation, to conclude that the Danes, the French, the Turks, and people even more remote, are of one fpecies; have we not the fame reafon to conclude, that the nations beyond them, and who do not differ from the laft by more confpicuous diffinctions, than the last differ from the first, are also of the fame fpecies? By purfuing this progreffion, we fhall find but one species from the equator to the pole.

in one cafe, thefe tranfmutations are acknowledged to be confiftent with identity of kind, they ought not, in the other, to be efteemed criterions of diffinct species. Nature hath adapted the pliancy of her work to the fituations in which fhe may require it to be placed. The beaver, removed to the warm latitudes, exchanges its fur, and the sheep its wool, for a coarse hair that preferves the animal in a more moderate temperature. The coarfe and black fhag of the bear is converted, in the arctic regions, into the fineft and whiteft fur. The horfe, the deer, and almost every animal protected by hair, doubles his coat in the beginning of winter, and fheds it in the fpring when it is no longer useful. The fineness and density of the hair is augmented in proportion to the latitude of the country. The Canadian and Ruffians furs are, therefore, better than the furs of climates farther fouth. The colour of the hair is likewife changed by climate. The bear is white under the arctic circle; and in high northern latitudes, black foxes are most frequently found. Similar effects of

climate are difcernible on mankind. Almost every nation is distinguished by some peculiar quality of this excrescence. The hair of the Danes is generally red, of the English fair or brown, and of the French commonly black. The Highlanders of Scotland are divided between red and black. Red hair is frequently found in the cold and elevated regions of the Alps, although black be the predominant complexion at the foot of those mountains, The aborigines of America, like all people of colour, have black hair; and it is generally long and ftraight. The ftraightnefs of the hair may arife from the relaxation of the climate, or from the humidity of an uncultivated region †. But whatever be

+ THIS *ftraightnefs* of the hair of the American Indians may, we think, be eafily accounted for without fuppofing (and it certainly would be, at beft, a gratuitous fuppofition) that the climate of the New World is either more *relaxing* or more *humid* than that of many, and those extensive, regions of the other hemisphere. Indeed, as this condition of the hair is as observable among the Indians of the Floridas and of other fervid parts of America, as among those who dwell to the

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the caufe, the Anglo-Americans already feel its influence. And curled locks fo frequent among their anceftors are rare in the United States \*.

north, where the climate is certainly more humid, it would be unphilosophical to attempt an explanation of the fact from the influence of this state of the climate. The cuftom of anointing the hair, which is univerfal among the tribes of America, is, of itfelf, fufficient to account for the fact; especially as we find among almost all the northern Asiatics (among whom this practice alfo prevails) the fame ftraightnefs of hair. But still if it is true that the hair of the Anglo-American is lefs fusceptible of the curl than that of his anceftor, we must call in to our aid fome other caufe to explain the phenomenon. At prefent, however, we are incapable of afcertaining this caufe ; we will, therefore, rather confess our ignorance than attempt to amuse by a fanciful conjecture. EDITOR.

\* They are most rare in the fouthern states, and in those families that are farthest descended from their European origin. Straight lank hair is almost a general characteristic of the Americans of the second and third race. It is impossible, however, to predict what effect hereafter the clearing of the country and the progress of cultivation may have on the hair as well as other qualities of the Americans;

Black is the most usual colour of the human hair; because those climates that are most extensive, and most favourable to population, tend to the dark complexion. Climates that are not naturally marked by a peculiar colour, may owe the accidental predominancy of one to the constitutional qualities of an ancestral family.—They may owe the prevalence of a variety of colours to the early settlement of different families; or to the migrations or conquests of different nations. England is, perhaps for this reason, the country in which is feen the greatest variety in the colour of the hair.

But the form of this excrefcence which principally merits obfervation, becaufe it feems to be fartheft removed from the ordinary laws of nature, is feen in that fparfe and curled fubftance peculiar to a part of Africa, and to a few of the Afiatic iflands.

They will neceffarily produce a great change in the climate, and confequently in the human conftitution.

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This peculiarity has been urged as a decifive character of a diffinct species with more affurance than became philosophers but tolerably acquainted with the operations of nature. The fparfenels of the African hair is analogous to the effect which a warm climate has been flown to have on other animals. Cold, by obstructing the perspiration, tends to throw out the perfpirable matter accumulated at the skin in an additional coat of hair. A warm climate, by opening the pores, evaporates this matter before it can be concreted into the fubftance of hair; and the laxnefs and aperture of the pores render the hair liable to be eafily eradicated by innumerable accidents.

Its curl may refult in part, perhaps, from external heat, and in part from the nature of the fubftance or fecretion by which it is nourifhed. That it depends in a degree on the quality of the fecretion, is rendered probable from its 'appearance on the chin, and on other parts of the hu-

man body. Climate is as much diftinguished by the nature and proportion of the fecretions as by the degree of heat. Whatever be the nutriment of the hair, it feems to be combined in the torrid zone of Africa with fome fluid of a highly volatile or ardent quality. That it is combined with a ftrong volatile falt, the rank and offenfive fmell of many African nations gives us reason to sufpect. Saline fecretions tend to curl and to burn the hair. The evaporation of any volatile fpirit would render its furface dry and difpofed to contract; while the center continuing diftended by the vital motion, these opposite dilatations and contractions would neceffarily produce a curve, and make the hair grow involved. This conjecture receives fome confirmation by obferving, that the negroes born in the United States of America are gradually lofing the strong smell of the African zone; their hair is, at the fame time, growing lefs involved, and becoming denfer and longer \*.

\* Many negroes of the third race in America have

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External and violent heat parching the extremities of the hair tends likewife to involve it. A hair held near the fire inftantly coils itfelf up. The herbs roll up their leaves, in the extreme heats of fummer, during the day, and expand them again in the coolnefs of the evening. Africa is the hotteft country on the globe. The ancients who frequented the Afiatic zone efteemed the African an uninhabitable zone of fire. The hair as well as the whole human conflitution fuffers, in this region, the effects of an intenfe heat.

thick clofe hair, extended to four or five inches in length. In fome who take great pains to comb and drefs it in oil, it is even longer, and they are able to extend it into a fhort queue\*. This is particularly the cafe with fome domeftic fervants who have more leifure and better means than others to cherifh their hair. Many negroes, however, cut their hair as faft as it grows, preferring it fhort.

\* The fact here mentioned by the author affords additional evidence to our idea, that the straightness of the hair of the aboriginal American, and of the northern Association for the practice of constantly anointing their heads. EDITOR.

The manners of the people add to the influence of the climate. Being favages they have few arts to protect them from its intenfity. The heat and ferenity of the fky preferving the life of children without much care of the parent, they feem to be the most negligent people of their offspring in the universe\*. Able themfelves to endure, the extremes of that ardent climate, they inure their children from their most tender age. They fuffer them to lie in the ashes of their huts, or to roll in the dust and fand beneath the direct rays of a burning fun. The mother, if she is engaged, lays down the infant on the first spot she finds, and is feldom at the pains to feek the miferable

bervelt at firk wich the **H**matent harburity of this terstments I have remember and with elements an charfab.

\* The manners of a people are formed, in a great meafure, by their neceffities. The dangers of the North-American climate render the natives uncommonly attentive to the prefervation of their children. The African climate not laying its favage inhabitants under any neceffity to be careful, they expose their children to its utmost influence without concern.

fhelter of a barren fhrub, which is all that the interior country affords. Thus the hair is crifped, while the complexion is blackened by exceffive heat  $\dagger$ . There is

+ I have myfelf been witnefs of this treatment of children by the flaves in the fouthern flates, where they are numerous enough to retain many of their African cuftoms. I fpeak of the field flaves who, living in little villages on their plantations, at a diftance from their mafters manfions, are flow in adopting the manners of their fuperiors. There I have feen the mother of a child, within lefs than fix weeks after it was born, take it with her to the field, and lay it in the fand, beneath a hot fun, while fhe hoed her corn-row down and up. She would then fuckle it a few minutes and return to her work, leaving the child in the fame exposure, although the might have gained, within a few yards, a convenient shade. Struck at first with the apparent barbarity of this treatment, I have remonstrated with them on the fubject, and was uniformly told, that dry fand and a hot fun, were never found to hurt them. This treatment tends to add to the injury that the climate does to the hair. A fimilar negligence among the poor, who fuffer their children to lie in afhes, or on the naked ground, and who expose them, without covering for their heads, to the fun and wind, we find greatly injures their hair. We rarely fee perfons

probably a concurrence of both the preceding caufes in the production of the effect. The influence of heat either external, or internal, or of both, in giving the form to the hair of the Africans, appears, not only from its fparfenefs and its curl, but, from its colour. It is not of a fhining, but an aduft black, and its extremities tend to brown as if it had been fcorched by the fire.

Having treated fo largely on the form of this excrefcence in that country where it deviates fartheft from the common law of the fpecies; I proceed to confider a few of the remaining varieties among mankind.

The whole of the Tartar race are of low stature—Their heads have a difpropor-

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who have been bred in extreme poverty, who have it not fhort, and thin, and frittered. But the heat of the fand and of the fun in Africa must have a much more powerful effect.

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tioned magnitude to the reft of the body -Their shoulders are raised, and their necks are fhort-Their eyes are fmall, and appear by the jutting of the eyebrows over them, to be funk in the head -The nofe is fhort, and rifes but little from the face-The cheek is elevated and fpread out on the fides-The whole features are remarkably coarfe and deformed. And all these peculiarities are aggravated, as you proceed towards the pole, in the Lapponian, Borandian and Samoiede races, which, as Buffon juftly remarks, are Tartars reduced to the last degree of degeneracy.—A race of men refembling the Laplanders we find in a fimilar climate in America. The frozen countries round Hudson's bay are, except Siberia, the coldeft in the world. And here the inhabitants are between four and five feet in height-Their heads are large-Their eyes are little and weak-And their hands, feet, and whole limbs uncommonly fmall\*.

\* The ESQUIMAUX is the variety of our species

Repeat and think and faiterist. But the brand

Thefe effects naturally refult from extreme cold. Cold contracts the nerves, as it does all folid bodies. The inhabitants grow under the constriction of continual frost as under the forcible compression of some powerful machine. Men will therefore be found in the highest latitudes, for ever small and of low stature \*. The

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to which the author here alludes. This wretched and diminutive race of men, who may be ranked among the degeneracies of nature, appear to be evidently of the fame flock with the Laplanders, the Greenlanders, and fome other northern nations Mr Hearne has traced them as far to the north as the latitude of 72°; and it feems very probable, that in thefe high and frozen regions they have fubfifted from a very remote æra. They have, however, been difcovered in climates more genial; as in the iflands between the continents of Afia and America; and at Norton's Sound, Oonalafhka, and Prince William's Sound. EDITOR.

\* A moderate degree of cold is neceffary to give force and tone to the nerves, and to raife the human body to its largeft fize. But extreme cold overftrains, and contracts them. Therefore the morthern tribes are not only fmall, but weak and timid.

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excessive \* rigors of these frozen regions affect chiefly the extremities. The blood

That CLIMATE has fome influence on the STA-TURE of mankind no one who is in the leaft accuftomed to observe the operations of nature can difpute. Yet we prefume that the diminutive ftature of the Efquimaux, and of fome other northern tribes, both of the old and of the new hemisphere, cannot be attributed entirely, nor perhaps chiefly, to the operation of the climate in which they pass their miserable existence. The Tshchutski, though they inhabit fome of the highest latitudes of Asia, are among the talleft and beft made men of that continent,-or indeed of any other part of the world, hitherto difcovered ;-and, if we take a furvey of mankind in all the intermediate latitudes from the highest to the loweft, we shall find them (the Efguimaux and a few other nations only excepted) deviating but little from one general flandard of flature :- The Hottentot at the fouthern promontory of Africa is as tall as the northern native of the fame continent ;---little difference is obferved between the northern and the fouthern Afiatic, or between the European or the Ametican in these different fituations.

It is not, then, climate fo much as the STATE of SOCIETY which effects a difference in the flature of mankind : Thofe nations who are the most diminutive in flature will, generally, be found the most rude

circulating to them with a more languid and feeble motion has not fufficient vigour to reffift the impreffions of the cold. Thefe limbs confequently fuffer a greater contraction and diminution than the reft of the body. But the blood flowing with warmth and force to the breaft and head, and perhaps with the more force, that its courfe to the extremities is obftructed, diftends thefe parts to a difproportionate fize. There is a regular gradation in the effect of the climate, and in the figure of the people from the Tartars to the tribes

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in manners. The Efquimaux inhabits one of the most steril regions of the earth, a region to which nature seems to have denied even the common neceffaries of life. This wretched man has done nothing to improve his wretched condition;—he is content merely to exist on a few of the vegetables which his country produces; and on the flesh of the seal, and the oil of the whale. Such food his system is incapable of affimilating, or forming into nutritious juices, debility and discafe confequently ensue, and the growth of the body advances but flowly.

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round Hudfon's bay. The Tartars are taller and thicker than the Laplanders or the Samoiedes, becaufe their climate is lefs fevere. The northern Americans are the most diminutive of all, their extremities are the fmalless, and their breast and head of the most disproportioned magnitude; because, inhabiting a climate equally fevere with the Samoiedes, they are reduced to a more favage state of society \*.

### Extreme cold likewife tends to form

\* The neighbourhood of the Ruffians, of the Chinefe, and even of the Tartars who have adopted many improvements from the civilized nations that border upon them, give the Laplanders and Siberians confiderable advantages over the northern Americans who are in the moft abject flate of favage life, and totally defitute of every art either for convenience or protection. The principles flated above apply to all thefe nations in propertion to the degree of cold combined with the degree of favagenefs. Thé inhabitants of the northern civilized countries of Europe are generally of lower flature than thofe in the middle regions. But civilization and a milder climate prevent them from degenerating equally with the northern Afiatics and Americans.

the next peculiarities of these races, their high shoulders, and their short necks. Severe frost prompts men to raife their fhoulders as if to protect the neck, and to cherish the warmth of the blood that flows to the head. And the habits of an eternal winter will fix them in that pofition .- The neck will appear fhortened beyond its due proportion, not only becaufe it fuffers an equal contraction with the other parts of the body; but becaufe the head and breaft being increafed to a difproportioned fize, will encroach upon' its length; and the natural elevation of the shoulders will bury what remains fo deep as to give the head an appearance of refting upon them for its fupport. That thefe peculiarities are the effect of climate\*, the examples produced by French

\* As climate is often known peculiarly to affect certain parts of the body, philosophy, if it were neceffary, could find no more difficulty in accounting for the flort necks of the Tartars, and other northern tribes, as a difease of the climate, than she finds in giving the same account for the thick necks so fre-

miffionaries in China, of most respectable characters, leave us no room to doubt, who affure us that they have seen, even in the forty-eighth degree of northern latitude, the posterity of Chinese families who had become perfect Tartars in their figure and aspect; and who were distinguished, in particular, by the same shortness of the neck, and by the same elevation of the shoulders \*.

That coarfe and deformed features are the neceffary production of the climate cannot have escaped the attention of the most incurious observer. Let us attend to the effects of extreme cold. It contracts the aperture of the eyes; it draws down the brows; it raises the cheek; by the

quently found in the regions of the Alps. But the obfervations before made will probably convince the attentive reader that there is no need to refort to fuch a folution of the phenomenon, when it feems fo eafily to be explained by the known operation of natural caufes.

\* See Recueil 24 des lettres edifiantes,

preffure of the under jaw against the upper it diminishes the face in length and spreads it out at the fides; and distorts the schape of every feature,

This, which is only a transient impreffion in our climate, foon effaced by the conveniences of fociety, and by the changes of the seafon, becomes a heightened and permanent effect in those extreme regions, arifing from the greater intenfity, and the conftant action of the caufe. The naked and defenceless condition of the people augments its violence; and beginning its operation from infancy when the features are most tender and fusceptible of impreffion, and continuing it, without remiffion, till they have attained their utmost growth, they become fixed at length in the point of greatest deformity, and form the character of the Hudfon or Siberian countenance.

The principal peculiarities that may reguire a farther illustration are the small-

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nefs of the nofe, and depression of the middle of the face; the prominence of the forehead, and the extreme weakness of the eyes,

The middle of the face is that part which is most exposed to the cold, and confequently fuffers most from its power of contraction. It first meets the wind, and it is farthest removed from the feat of warmth in the head. But a circumstance of equal, or, perhaps, of greater importance on this subject, is that the inhabitants of frozen climates naturally drawing their breath more through the nose, than through the mouth \*, thereby direct the greatest impulse of the air on that feature, and the parts adjacent. Such a continual stream of air augments the cold, and

\* A frofty air inhaled by the mouth chills the body more than when it is received by the noftrils; probably becaufe a greater quantity enters at a time. Nature therefore prompts men to keep the mouth clofed during the prevalence of intenfe froft.

by increasing the contraction of the parts, restrains the freedom of their growth\*.

Hence, likewife, will arife an eafy folution of the next peculiarity, the prominence of the forehead. The fuperior warmth and force of life in the brain that fills the upper part of the head, will naturally increase its fize, and make it overhang the contracted parts below.

Lastly, the eyes in these rigorous climates are fingularly affected. By the projection of the eye-brows, they appear to be funk into the head; the cold naturally diminishes their aperture; and the intensity of the frost concurring with the glare of eternal snows, so overstrains these tensier organs, that they are always weak,

\* On the fame principle the mercury in a thermometer may be contracted and funk into the bulb, by directing upon it a conftant ftream of air from a pair of bellows, if the bulb be frequently touched during the operation with any fluid that by a fpeedy evaporation tends to increase the cold.

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and the inhabitants are often liable to blindnefs at an early age.

In the temperate zone on the other hand, and in a point rather below than above the middle region of temperature, the agreeable warmth of the air difpofing the nerves to the most free and easy expansion, will open the features and increase the orb of the eye \* Here a large full eye, being the tendency of nature, will grow to be esteemed a perfection. And in the strain of Homer, source motiva Hp<sup>\*</sup> would convey to a Greek an idea of divine beauty that is hardly intelligible to an inhabi-

\* It is perhaps worthy of remark, that, in the three continents, the temperate climates, and eternal cold, border fo nearly upon one another, that we pals almost instantly from the former to the latter. And we find the Laplander, the Samoiede, the Mongou, and the tribes round Hudson's bay in the neighbourhood of the Swede, the Russian, the Chinese, and the Canadian. Without attention to this remark, hasty reasoners will make the sudden change of features in these nations an objection against the preceding philosophy.

tant of the north of Europe. All the principles of the human conflictution unfolding themfelves freely in fuch a region, and nature acting without confirmate will be there feen most nearly in that perfection which was the original defign and idea of the Creator  $\dagger$ .

II. Having endeavoured to afcertain the power of climate in producing many varieties in the human fpecies, I proceed to illustrate the influence of the state of society.

### On this fubject I obferve,

1. In the first place, that the effect of cli-

+ It may perhaps gratify my countrymen to reflect that the United States occupy those latitudes that have ever been most favourable to the beauty of the human form. When time shall have accommodated the constitution to its new state, and cultivation shall have meliorated the climate, the beauties of Greece and Circassia may be renewed in America; as there are not a few already who rival those of any other quarter of the globe.

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mate is augmented by a favage state, and corrected by a state of civilization. And

ine themielves freely in fuch a region, and

2. In the next place, that by the flate of fociety many varieties in the human perfon are entirely formed.

In the first place, the effect of climate is augmented by a favage state of society and corrected by a state of civilization.

rictics in the human foccies, I proceed to A naked favage, feldom enjoying the protection of a miferable hut, and compelled to lodge on the bare ground and under the open sky, imbibes the influence of the fun and atmosphere at every pore. He inhabits an uncultivated region filled with ftagnant waters, and covered with putrid vegetables that fall down and corrupt on the fpot where they have grown. He pitches his wigwam on the fide of a river, that he may enjoy the convenience of fifhing as well as of hunting. The vapour of rivers, the exhalations of marshes, and the noxious effluvia of decaying vegetables, fill the whole atmosphere in an unimproved

country, and tend to give a dark and bilious hue to the complexion\*. And the fun acting immediately on the fkin in this ftate will neceffarily imprefs a deep colour.

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The forefts in uncultivated countries abforb a great part of these putrid vapours, otherwise they would be contagious and mortal. But as nature never makes her work perfect, but leaves the completion of her fchemes to exercife the industry and wifdom of man, the growing vegetables do not abforb the whole effluvia of the decaying, and of the noxious marshes that overspread the face of such a region. Nothing but civilization and culture can perfectly purify the atmosphere. Uncultivated as well as warm countries therefore naturally tend to a bilious habit, and a dark complexion. It may feem an objection against this observation, that in America we often find bilious difordets augmented in confequence of cutting down the timber, and extending the plantations. The reafon of which probably is, that the indolence or neceffities of a new country frequently lead men to clear the ground without draining the marfhes; or fmall plantations are furrounded by unimproved forefts. Thus, the vegetables that abforbed the noxious moifture being removed, it is left to fall in greater abundance on man.

This effect is augmented by the practice of painting, to which favages are often obliged to have recourfe in order to protect themselves from the impressions of the humid earth on which they lie, or of a noxious atmosphere to which they are exposed without covering. Painting taken up at first through necessity is afterwards employed as an ornament; and a favage is feldom feen without having his fkin covered with fome composition that fpoils the finenefs of its texture, and impairs the beauty and clearness of its natural colour. This is known to be the effect of the finest paints and walkes that are used for the fame purpose in polished fociety. Much more will it be the effect of those coarse and filthy unguents which are employed by favages. And as we fee that coloured marks impreffed by punctures in the fkin become indelible, it is reafonable to believe that the particles of paints infinuated into its texture by forcible and frequent rubbing will tend, in like manner, to create a dark and permanent colour.

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To this may be added, that the frequent fumigations by which they are obliged to guard against the annoyance of innumerable infects in undrained and uncultivated countries; and the fmoke with which their huts, unskilfully built, and without chimneys, are eternally filled, contribute to augment the natural darkness of the favage complexion. Smoke difcolours the fkin of those labourers and mechanics who are habitually immerfed in it-It stains every object long exposed to its action, by entering the pores, and adhering ftrongly to the furface.-It infinuates itfelf in a fimilar manner into the pores of the fkin. and there tends to change the complexion, on the fame principles that it is changed by inferted paints.

And laftly, the hardfhips of their condition that weaken and exhauft the principle of life—their fcanty and meagre fare which wants the fucculence and nourifhment which give frefhnefs and vigour to the conftitution—the uncertainty of their

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provision which fometimes leaves them to languish with want, and sometimes enables them to overstrain themselves by a surfeit -and their entire inattention to perfonal and domestic cleanlines, all have a prodigious effect to darken the complexion, to relax and emaciate the conftitution, and to render the features coarfe and deformed. Of the influence of these causes we have an example in perfons reduced to extreme poverty, who are ufually as much diftinguished by their thin habit, their uncouth features, and their fwarthy and fqualid afpect as by the meannefs of their garb. Nakedness, exposure, negligence of appearance, want of cleanlinefs, bad lodging, and meagre diet, fo difcolour and injure their form as to enable us to frame fome judgment of the degree in which fuch caufes will contribute to augment the influence of climate in favage life. Independently on climate, these causes will render it impossible that a favage should ever be fair. And the co-operation of both, will usually render men in that state

of fociety extremely dark in their complexion. And generally they will be more coarfe and hard in their features and lefs robuft in their perfons, than men who enjoy with temperance the advantages of civilized fociety \*.

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One of the greatest difficulties with which a writer on this fubject has to combat, is the ignorance and fuperficial obfervation of the bulk of travellers who travel without the true spirit of remark. The first objects that meet their view in a new country and among a new people, feize their fancy and are recited with exaggeration. They feldom have judgement and impartiality fufficient to examine and reafon with justness and caution; and from innumerable facts which neceffarily have many points of difference among themfelves, to draw general conclufions. Such conclusions, when most justly drawn, they think they have refuted, when they difcover a fingle example that feems not to coincide with them. In reafonings of this kind there are few perfons who fufficiently confider that, however accurately we may inveftigate caufes and effects, our limited knowledge will always leave particular examples that will feem to be exceptions from any general principle .- To apply these remarks. - A few examples, perhaps, may oc-

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As a favage state contributes to augment the influence of climate; or, at least, to

cur, among favages, of regular and agreeable features, or of ftrong and mufcular bodies; as in civilized fociety we meet with fome rare inftances of aftonifhing beauty. If, by chance, a perfon of narrow obfervation, and incomprehensive mind, have seen two or three examples of this kind, he will be ready on this flender foundation, to contradict the general remark, I have made concerning the courfe and uncouth features of favages, and their want of those fine and muscular proportions, if I may call them fo, in the human body, that indicate ftrength combined with fwiftnefs. Yet, it is certain, that the general countenance of favage life is much more uncouth and coarfe, more unmeaning and wild, as will afterwards be feen when I come to point out the caufes of it, than the countenance of polifhed fociety : And the perfon is more flender, and rather fitted for the chace, than robust and capable of force and labour.-An American Indian, in particular, is commonly fwift; he is rarely very ftrong. And it has been remarked, in the many expeditions which the people of thefe ftates have undertaken against the favages, that, in close quarters, the ftrength of an Anglo-American is ufually fuperior to that of an Indian of the fame fize. The muscles, likewife, on which the fine proportions of perfon fo much depend, are generally fmaller and more lax, than they are in improved fo-

exhibit its worft effects upon the human conftitution; a state of civilization, on the other hand, tends to correct it, by furnishing innumerable means of guarding against its power. The conveniences of clothing and of lodging—the plenty, and healthful quality of food—a country drained, culti-

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ciety that is not corrupted by luxury, or debilitated by fedentary occupations;-their limbs, therefore, though ftraight, are lefs beautifully turned .- A deception often paffes on the fenfes in judging of the beauty of favages-and defcription is often more exaggerated than the fenfes are deceived. We do not expect beauty in favage life. When, therefore, we happen to perceive it, the contrast with the usual condition of that state imposes on the mind. And the exalted reprefentations of favage beauty, which we fometimes read, are true only by comparison with favages .- There is a difference, in this respect between man, and many of the inferior animals which were intended to run wild in the forest. They are always the most beautiful when they enjoy their native liberty and range. They decay and droop when attempted to be domefticated or confined. But man, being defigned for fociety and civilization, attains, in that ftate, the greatest perfection of his form, as well as of his whole nature.

vated, and freed from noxious effluviaimproved ideas of beauty-the conflant ftudy of elegance, and the infinite arts for attaining it, even in perfonal figure and appearance, give cultivated an immenfe advantage over favage fociety in its attempts to counteract the influence of climate, and to beautify the human form.

2. I come now to observe, what is of much more importance on this part of the subject, that all the features of the human countenance are modified, and its entire expression radically formed, by the state of society.

Every object that impreffes the fenfes, and every emotion that rifes in the mind, affects the features of the face the index of our feelings, and contributes to form the infinitely various countenance of man. Paucity of ideas creates a vacant and unmeaning afpect. Agreeable and cultivated fcenes compose the features, and render them regular and gay. Wild, and de-

formed, and folitary forefts tend to imprefs on the countenance, an image of their own rudeness. Great varieties are created by diet and modes of living. The delicacies of refined life give a foft and elegant form to the features. Hard fare, and conftant exposure to the injuries of the weather, render them coarfe and uncouth. The infinite attentions of polifhed fociety give variety and expression to the face. The want of interesting emotions leaving its muscles lax and unexerted, they are fuffered to diftend themfelves to a larger and groffer fize, and acquire a foft unvarying fwell that is not diffinctly marked by any idea. A general standard of beauty has its effect in forming the human countenance and figure. Every paffion, and mode of thinking has its peculiar expression-And all the preceding characters have again many variations according to their degrees of frength, according to their combinations with other principles, and according to the peculiarities of constitution or of climate that form

the ground on which the different impreffions are received. As the degrees of civilization, as the ideas, paffions, and objects of fociety in different countries, and under different forms of government are infinitely various, they open a boundlefs field for variety in the human countenance. It is impossible to enumerate them.—They are not the fame in any two ages of the world .- It would be unneceffary to enumerate them, as my object is not to become a physiognomist, but to evince the poffibility of fo many differences exifting in one fpecies; and to fuggeft a proper mode of reafoning on new varieties as they may occur to our obfervation.

For this purpofe, I fhall, in the first place, endeavour, by feveral facts and illustrations to evince, that the state of society has a great effect in varying the figure and complexion of mankind.

I shall then shew in what manner some

of the most distinguishing features of the favage, and particularly of the American favage with whom we are best acquainted, naturally refult from the rude condition in which they exist.

To evince that the ftate of fociety has a great effect in varying the figure and complexion of mankind, I fhall derive my firft illuftration from the feveral claffes of men in polifhed nations. And then I fhall fhew that men in different ftates of fociety have changed, and that they have it continually in their power to change, in a great degree, the afpect of the fpecies, according to any general ideas or ftandard of human beauty which they may have adopted.

1. And in the first place, between the feveral classes of men in polished nations, who may be confidered as people in different states of society, we difcern great and obvious distinctions, arising from their focial habits, ideas and employments.

The poor and labouring part of the community are ufually more fwarthy and fqualid in their complexion, more hard in their features, and more coarfe and illformed in their limbs, than perfons of better fortune, and more liberal means of fubfiftence. They want the delicate tints of colour, the pleafing regularity of feature, and the elegance and fine proportions of perfon. There may be particular exceptions. Luxury may disfigure the one —a fortunate coincidence of circumflances may give a happy affemblage of features to the other. But thefe exceptions do not invalidate the general obfervation\*. Such

\* It ought to be kept in mind through the whole of the following illustrations that, when mention is made of the fuperior beauty and proportions of perfons in the higher classes of fociety, the remark is general. It is not intended to deny that there exist exceptions both of deformity among the great, and of beauty among the poor. And those only are intended to be deforibed who enjoy their fortune with temperance; because luxury and excess tend equally with extreme poverty to debilitate and disfigure the human conflitution.

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diftinctions become more confiderable by time, after families have held for ages the fame stations in fociety. They are most confpicuous in those countries in which the laws have made the most complete and permanent division of ranks. What an immense difference exists, in Scotland, between the chiefs and the commonalty of the highland clans? If they had been feparately found in different countries, the philosophy of some writers would have ranged them in different species. A fimilar diffinction takes place between the nobility and peafantry of France, of Spain, of Italy, of Germany. It is even more confpicuous in many of the eaftern nations, where a wider diftance exifts between the highest and the lowest classes in fociety. The naires or nobles of Calicut, in the East-Indies, have, with the usual ignorance and precipitancy of travellers, been pronounced a different race from the populace; becaufe the former elevated by their rank, and devoted only to martial ftudies and atchievements, are diftinguish-

ed by that manly beauty and elevated ftature fo frequently found with the profef\_ fion of arms, especially when united with nobility of defcent; the latter, poor and laborious, and exposed to hardships, and left, by their rank, without the spirit or the hope to better their condition, are much more deformed and diminutive in their perfons; and in their complexion much more black. In France, fays Buffon, you may diftinguish by their aspect not only the nobility from the peafantry, but the fuperior orders of nobility from the inferior, these from citizens, and citizens from peafants. You may even diflinguish the peafants of one part of the country from those of another according to the fertility of the foil, or the nature of its product. The fame observation has been made on the inhabitants of different counties in England. And I have been affured by a most judicious and careful observer, that the difference between the people in the eaftern, and those in the western counties in Scotland, is sensible

and ftriking. The farmers who cultivate the fertile countries of the Lothians have a fairer complexion, and larger performs, than those who live in the west, and obtain a more coarse and scanty subsistence from a barren soil \*.

\* It is well known that coarfe and meagre food is ever accompanied in mankind with hard features and a dark complexion. Every change of diet, and every variety in the manner of preparing it, has fome effect on the human constitution. A fervant now lives in my family who was bound to me at ten years of age. Her parents were in abject poverty. The child was, in confequence, extremely fallow in her complexion; the was emaciated, and as is common to children who have lain in the afhes and dirt of miferable huts, her hair was frittered and worn away to the length of little more than two inches. This girl has, by a fortunate change in her mode of living, and indeed by living more like my own children than like a fervant, become, in the space of four years, fresh and ruddy in her complexion, her hair is long and flowing, and fhe is not badly made in her perfon. A fimilar inftance is now in the family of a worthy clergyman, a friend and neighbour of mine. And many fuch inftances of the influence of diet, and modes of living, will occur to a careful and attentive observer. It equally affects the inferior animals.

If, in England, there exifts lefs difference between the figure and appearance of perfons in the higher and lower claffes of fociety, than is feen in many other countries of Europe, it is becaufe a more gene-

The horfe, according to his treatment, may be infinitely varied in shape and fize. The flesh of many species of game differs both in taste and colour according to the nature of the grounds on which they have fed. The flesh of hares that have fed on high lands, is much fairer than of those that have fed in valleys and on damp grounds. And every keeper of cattle knows how much the firmnefs and flavour of the meat depends upon the manner of feeding. Nor is this unaccountable: For as each element has a different effect on the animal fystem; and as the elements are combined in various proportions in different kinds of food, the means of fublistence will neceffarily have a great influence on the human figure and complexion.----The difference, however, be-tween the common people in the eaftern and weftern countries of Scotland, in feveral counties in England, and in other nations, arifes, perhaps, not only from their food, and the foil which they inhabit, but, in part likewife, from their occupations, as hufbandmen, mechanics, or manufacturers. Hufbandry has generally a happier effect on perfonal appearance, than the fedentary employments of manufacture.

ral diffusion of liberty and wealth has reduced the different ranks more nearly to a level. Science and military talents open the way to eminence and to nobility. Encouragements to industry, and ideas of liberty, favour the acquisition of fortune by the lowest orders of citizens—And, these not being prohibited, by the laws or customs of the nation from assoring to connections with the highest ranks, families in that country are frequently blended. You often find in citizens the beautiful figure and complexion of the noblest blood; and, in noble houses, the coarse features that were formed in lower life.

Such diffinctions are, as yet, lefs obvious in America, becaufe the people enjoy a greater equality; and the frequency of migration has not permitted any foil, or ftate of local manners, to imprefs its character deeply on the conftitution. Equality of rank and fortune, in the citizens of the United States, fimilarity of occupations, and of fociety, have produced fuch

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uniformity of character, that, hitherto, they are not ftrongly marked by fuch differences of feature as arife folely from focial diffinctions. And yet there are beginning to be formed, independently on climate, certain combinations of features, the refult of focial ideas, that already ferve, in a degree, to diffinguifh the flates from one another. Hereafter they will advance into more confiderable and characteriftic diffinctions.

If the white inhabitants of America afford us lefs confpicuous inftances, than fome other nations, of the power of fociety, and of the difference of ranks, in varying the human form, the blacks, in the fouthern republics, afford one that is highly worthy the attention of philofophers. —It has often occurred to my own obfervation.

The field flaves are badly fed, clothed and lodged. They live in fmall huts on the plantations where they labour, remote

from the fociety and example of their fuperiors. Living by themfelves, they retain many of the customs and manners of their African anceftors. The domeftic fervants, on the other hand, who are kept near the perfons, or employed in the families of their masters, are treated with great lenity, their fervice is light, they are fed and clothed like their fuperiors, they fee their manners, adopt their habits, and infenfibly receive the fame ideas of elegance and beauty. The field flaves are, in confequence, flow in changing the afpect and figure of Africa. The domeftic fervants have advanced far before them in acquiring the agreeable and regular features, and the expressive countenance of civilized fociety .- The former are frequently ill fhaped. They preferve, in a great degree, the African lips, and nofe, and hair. Their genius is dull, and their countenance fleepy and flupid-The latter are ftraight and well proportioned; their hair extended to three, four, and fometimes even to fix or eight inches; the fize

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and shape of the mouth handsome, their features regular, their capacity good, and their look animated \*.

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\* The features of the negroes in America have undergone a greater change than the complexion; becaufe depending more on the ftate of fociety than on the climate, they are fooner fufceptible of alteration, from its emotions, habits and ideas. This is ftrikingly verified in the field and domeftic flaves. The former, even in the third generation, retain, in a great degree, the countenance of Africa. The nofe though lefs flat, and the lips though lefs thick than in the native Africans, yet are much more flat and thick than in the family fervants of the fame race. Thefe have the nofe raifed, the mouth and lips of a moderate fize, the eyes lively and fparkling, and often the whole composition of the features extremely agreeable. The hair grows fenfibly longer in each fucceeding race; especially in those who drefs and cultivate it with care. After many inquiries, I have found that, wherever the hair is fhort and clofely curled in negroes of the fecond or third race, it is because they frequently cut it, to fave themselves the trouble of dreffing. The great difference between the domeftic and field flaves, gives reafon to believe that, if they were perfectly free, enjoyed property, and were admitted to a liberal participation of the fociety, rank and privileges of their mafters, they

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Another example of the power of fociety is well known to every man acquainted with the favage tribes difperfed along the frontiers of thefe republics. There you frequently fee perfons who have been captivated from the flates, and grown up, from infancy to middle age, in the habits of favage life. In that time, they univerfally contract fuch a ftrong refemblance of the natives in their countenance, and even in their complexion, as to afford a ftriking proof that the differences which exift, in the fame latitude, between the Anglo-American and the Indian, depend principally on the flate of fociety\*.

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would change their African peculiarities much faster.

\* The refemblance between these captives and the native favages is so strong, as at first to strike every observer with astonishment. Being taken in infancy, before society could have made any impressions upon them, and spending in the solitude and rudeness of strage life that tender and forming age, they grow up with the same apathy of countenance, the

The college of New-Jersey furnishes, at present, a counterpart to this example. A

fame lugubrious wildness, the fame fwelling of the features and muscles of the face, the fame form and attitude of the limbs, and the fame characteriftic gait, which is a great elevation of the feet when they walk, with the toe fomewhat turned in. after the manner of a duck. Growing up perfectly naked, and expofed to the conftant action of the fun and weather, amidft all the hardfhips of the favage ftate, their colour becomes very deep. As it is but a few shades lighter than that of the natives, it is, at a fmall diftance, hardly diftinguishable. This example affords another proof of the greater eafe with which a dark colour can be impressed, than effaced from, a fkin originally fair. The caufes of colour are alive in their operation, and fpeedily make a deep impreffion. White is the ground on which this operation is received. And a white fkin is to be preferved only by protecting it from the action of these causes. Protection has merely a negative influence, and muft therefore be flow in its effects; efpecially as long as the fmalleft degree of positive agency is fuffered from the original caufes of colour. And as the fkin retains, with great conftancy, impreffions once receiyed, all dark colours will, on both accounts, be much lefs mutable than the fair complexion. That period of time, therefore, which would be fufficient in a fayage state, to change a white skin to the darkest hue

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young Indian, now about fifteen years of age, was brought from his nation a number of years ago to receive an education in this inflitution. And from an accurate obfervation of him during the greater part of that time, I have received the most perfect conviction that the fame state of society, united with the fame climate, would make the Anglo-American and the Indian countenance very nearly approximate. He

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the climate can imprefs, would, with the most careful protection, lighten a black colour, only a few shades. And becaufe this politive and active influence produces its effect fo much more fpeedily and powerfully than the negative influence, that confifts merely in guarding against its operation; and fince we fee that the skin retains impressions long, and the tanning incurred by exposing it one day to the fun, is not, in many days, to be effaced, we may justly conclude that a dark colour once contracted, if it be exposed but a few days in the year to the action of the fun and weather, will be many ages before it can be entirely effaced. And unlefs the difference of climate be fo confiderable as to operate very great changes on the internal conflictution, and to alter the whole ftate of the fecretions, the negro colour, for example, may, by the exposure of a poor and fervile state, be rendered perpetual.

was too far advanced in favage habits to render the observation complete; because, all imprefiions received in the tender and pliant state of the human constitution before the age of feven years, are more deep and permanent, than in any future and equal period of life. There is an obvious difference between him and his fellowftudents in the largeness of the mouth, and thickness of the lips, in the elevation, of the cheek, in the darkness of the complexion, and the contour of the face. But these differences are fensibly diminishing. They feem the faster to diminish in proportion as he lofes that vacancy of eye, and that lugubrious wildness of countenance peculiar to the favage ftate, and acquires the agreeable expression of civil life. The expression of the eye, and the foftening of the features to civilized emotions and ideas, feems to have removed more than half the difference between him and us. His colour, though it is much lighter than the complexion of the native favage, as is evident from the flain of blufhing, that, on a near infpection, is inftant-

ly difcernible, still forms the principal diftinction \*. There is less difference between his features and those of his fellowstudents, than we often see between perfons in civilized fociety. After a careful attention to each particular feature, and comparison of it with the correspondent feature in us, I am now able to difcover but little difference. And yet there is an obvious difference in the whole countenance. This circumftance has led me to conclude that the varieties among mankind are much lefs than they appear to be. Each fingle trait or limb, when examined apart, has, perhaps, no diverfity that may not be eafily accounted for, from known and obvious caufes. Particular differences are fmall. It is the refult of the whole that furprizes us by its magnitude. The combined effect of many minute varieties, like the product arifing from the multiplication of many fmall numbers, appears

\* See the preceding note for a reafon why the complexion is lefs changed than many of the features. 2

great and unaccountable. And we have not patience, or fkill it may be, to divide this combined refult into its leaft portions, and to fee, in that ftate, how eafy it is of comprehension or folution.

The flate of fociety comprehends diet, clothing, lodging, manners, habits, face of the country, objects of fcience, religion, interefts, paffions and ideas of all kinds, infinite in number and variety. If each of thefe caufes be admitted to make, as undoubtedly they do, a fmall variation on the human countenance, the different combinations and refults of the whole muft neceffarily be very great; and combined with the effects of climate will be adequate to account for all the varieties we find among mankind \*.

\* As all these principles may be made to operate in very different ways, the effect of one may often be counteracted, in a degree, by that of another. And climate will effentially change the effects of all. The people in different parts of the fame country may, from various combinations of these causes, be

Another origin of the varieties fpringing from the flate of fociety is found in the power which men poffefs over themfelves of producing great changes in the human form, according to any common flandard of beauty which they may have adopted. The flandard of human beauty, in any country, is a general idea formed from the combined effect of climate and of the flate of fociety. And it reciprocally contributes to increase the effect from which it fprings. Every nation varies as much from others in ideas of beauty as in perfonal appearance. Whatever be that flandard, there is a general effort

very different. And, from the variety of combination, the poor of one country may have better complexion, features and proportions of perfon, than those in another, who enjoy the most favourable advantages of fortune. Without attention to these circumstances, a hasty observer will be apt to pronounce the remarks in the essay to be ill-founded, if he examines the human form in any country by the essex that is faid to arise from one principle alone, and do not, at the fame time, take in the concomitant or correcting influence of other causes.

to attain it, with more or lefs ardor and fuccefs, in proportion to the advantages which men poffefs in fociety, and to the eftimation in which beauty is held.

To this object tend the infinite pains to compose the features, and to form the attitudes of children, to give them the gay and agreeable countenance that is created in company, and to extinguish all deforming emotions of the paffions. To this object tend many of the arts of polifhed life. How many drugs are fold, and how many applications are made for the improvement of beauty? how many artifts of different kinds live upon this idea of beauty? If we dance, beauty is the object; if we use the fword, it is more for beauty than defence. If this general effort after appearance fometimes leads the decrepid and deformed into abfurdity, it has, however, a great and national effect .----Of its effect in creating diffinctions among nations in which different ideas prevail, and different means are employed for attaining them, we may frame fome con-

ception, from the diffinctions that exift in the fame nation, in which fimilar ideas prevail, and fimilar means are ufed, only in different degrees. What a difference is there between the foft and elegant tints of complexion in genteel life, and the coarfe ruddinefs of the yulgar ?- between the uncouth features and unpliant limbs of an unpolifhed ruftic, and the complacency of countenance, the graceful and eafy air and figure of an improved citizen ?- between the shaped and meaning face of a well bred lady, and the foft and plump fimplicity of a country girl ?---We now eafily account for these differences, because they are familiar to us, or becaufe we fee the operation of the causes. But if we should find an entire nation diffinguished by one of these characters, and another by the contrary, fome writers would pronounce them different races; although a true philofopher ought to understand that the cultivation of opposite ideas of beauty must have a greater effect in diverfifying the human countenance, than various degrees, or modes, of cultivating the fame ideas. The

countenance of Europe was more various, three centuries ago, than it is at prefent. The diverfities that depend upon this caufe are infenfibly wearing away as the progrefs of refinement is gradually approximating the manners and ideas of the people to one standard. But the influence of a general idea, or ftandard, of the human form; and the pains taken, or the means employed, to bring our own perfons to it, are through their familiarity often little observed. The means employed by other nations, who aim at a different idea, attract more notice by their novelty .- The nations beyond the Indus, as well as the Tartars, from whom they feem to have derived their ideas of beauty with their origin \*, univerfally admire fmall

\* It is probable that the countries of India and China might have been peopled before the regions of Tartary; but the frequent conquefts which they have fuffered, and particularly the former, from Tartarian nations, have changed their habits, ideas and perfons, even more perhaps than Europe was changed by the deluge of barbarians that overwhelmed it

eyes and large ears. They are at great pains, therefore, to compress their eyes at the corners, and to ftretch their ears by heavy weights appended to them, by drawing them frequently with the hand, and by cutting their rims, fo that they may hang down to their fhoulders, which they confider as the higheft beauty. On the fame principle, they extirpate the hair from their bodies; and, on the face, they leave only a few tufts here and there which they fhave. The Tartars often extirpate the whole hair of the head, except a knot on the crown, which they braid and adorn in different manners. Similar ideas of beauty with regard to the eyes; the ears and the hair; and fimilar cuftoms, in the Aborigines of America, are no inconfiderable proofs that this continent has been peopled from the northeastern regions of Afia \*. In Arabia and

in the fifth century. The prefent nations beyond the Indus are, in effect, Tartars changed by the power of climate, and of a new flate of fociety.

\* The celebrated Dr Robertson, in his history of

Greece large eyes are efteemed beautiful; and in these countries they take extraor-

America, deceived by the mifinformation of hafty or ignorant obfervers, has ventured to affert that the natives of America have no hair on their face or on their body; and like many other philosophers, has fet himfelf to account for a fact that never exifted. It may be laid down almost as a general maxim, that the first relations of travellers are false. They judge of appearances in a new country under the prejudices of ideas and habits contracted in their own. They judge from particular inftances that may happen to have occurred to them, of the ftature, the figure and the features of a whole nation. Philosophers ought never to admit a fact on the relations of travellers, till their characters for intelligence and accurate obfervation be well afcertained; nor even then, till the obfervation has been repeated, extended, and compared in many different lights, with other facts. The Indians have hair on the face and body; but from a falle fenfe of beauty they extirpate it with great pains. And traders among them are well informed, that tweezers for that purpofe are profitable articles of commerce.

A strange fatality has almost uniformly attended the researches of the most celebrated writers on the natural, as well as on the civil, history of the new world: The Gount de Buffon, the Abbé Raynal, and Dr Robertson,

dinary pains to stretch the lids, and extend their aperture. In India, they dilate H

in particular, have, on this subject, erred so frequently, and so egregiously, that their works can hardly be read without contempt :---- In the wantonness of Speculation, and in the hurry of composition, these gentlemen (to whom the world has long paid a deference bordering on veneration), affuming the tales of idle, credulous and ignorant travellers as philosophic truths, have ventured to deduce from them conclusions of no small importance in the hiftory of our species .- They seem to have conspired, as if it were in unifon with each other, to place the natives of the new hemisphere in the lowest grade of HUMANITY; to represent them not only destitute of the usual quantity of intellect allotted to mankind in other portions of the earth, of those milder virtues and paffions which dignify man, but also to reprefent him as destitute of that vigour of body which is obferved among the natives of other regions of the globe. -But of all the errors which have feized the imagination of these writers, none seems to be more general than that which is the fubject of this note. We shall, therefore, take some pains to remove it entirely from the minds of those who have either been so unfortunate to adopt, with implicity, the affertions of great authorities, or who have not had an opportunity of inquiring into the minutia of American hiftory.

the forehead in infancy, by the application of broad plates of lead. In China

It is a curious and an interesting fast, that throughout the whole continent of America, the tribes inhabiting that immense portion of the earth, were in the practice of extracting from the face and body, the bair with which nature had furnished them, in common with other nations : " The beardless countenance, and Smooth Skin" of the American, have been noticed not only by the early and more ignorant, but even by some of the later and more intelligent visitors of the New World, (See the " Memoires Philosophiques, Hiftoriques Phyliques concernant la decouverte de l'Amerique," of Don Ulloa); and the consequences which have been drawn from this popular error, have been great.

Had these writers, however, extended their inquiries a little further into the customs of the American, they would have discovered nothing peculiar, no " vice," in the constitution of his system ;- and had they been acquainted with the history of some of those very nations by whom it is probable, America was, at least in great part, peopled, they would have observed a fimilarity of custom, which should equally intitle them to the appellation they have beflowed on the American. Strahlenberg informs us, that the Tungufi, the Kalmucks, the Koraiki and the Jakuhti, barbarous nations who inhabit the northern and western parts of Afia, extract the hair which grows about their mouths-

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they compress the feet. In Caffraria, and many other parts of Africa, and in Lap-H 2

But although the Americans (in common with other nations) are furnished with hair on their faces and on their bodies, yet there can be little doubt from the united testimony of many writers, as well as from our own observation, that they are but sparsely supplied with this excrescence. This remark will apply to the greater number if not to all the tribes in the new hemisphere. -- The Mexicans in particular, if we may credit Cla-Vigero (THE HISTORY OF MEXICO, vol. 1. p. 78. and vol. 2. p. 330. &c.) have but very thin beards; and, in general, are without hair on their arms and legs. -This sparfeness of hair, however, is not peculiar to the American : Travellers relate the fame of the Laplanders, - the Samojeds, - and of the Ofliacks ; - of the Chinefes-the Japanefe, and of the natives of the Philippine islands .- But the celebrated writers, above mentioned, were either ignorant of these circumstances; or they were unwilling to mention them, because, perhaps, they impeached the wretched fystems which they have maintained: And whilft some vice or imperfection in the constitution of the American were deduced, at least in part, from the moothness of his skin,-the Chinese and the Japanese, were permitted to enjoy the reput tation of their vigour unmolefted.

Even, however, admitting the truth of this poputar opinion, that the smoothness of skin is peculiar to thimself

land, they flatten the nofe in order to accomplifh a capricious idea of beauty. The

the inhabitants of the new hemisphere, still the inferences which have been deduced from it by Dr Robertson, and by other writers, are truly ludicrous and contemptible : for however ignorant these celebrated writers may be of the NATURAL (as they have evidently been of the CIVIL) history of an extensive variety of our species, there can be no longer any doubt, that a want of appetite,—an incapacity of labour,—an impotency or incapacity of performing the business of generation,—in short, a general imbecility both of body and of mind, these are no more charaEteristic of the American than they are of the Asiatic, of the African, or even of the " enlightened European."

It is indeed truly aftonifoing, that Dr Robertfon in particular should have ever adopted, on the faith of Jefuits and of Buccaneers, tales of so grofs and extravagant a nature ;—as a divine he should believe that the Americans were descended from the same COMMON slock with himself: he has, indeed, leaned to this belief: he has pointed out the very countries from which, he thinks, America received her inhabitants ;—to what causes, then are we to attribute the want of a beard; —an imbecility of body and an imbecility of mind? no causes can be assure to attribute the which have been adopted by the wretched author of the RECHERCHES PHILOSOPHIQUES SUR LES AMERICAINS, and they need only be mentioned to be refuted.—For even admit-

skin, in many nations, is darkened by art; and all favages efteem certain kinds of deformity to be perfections; and ftrive to heighten the admiration of their perfons, by augmenting the wildness of their features. Through every country on the globe we might proceed in this manner, pointing out the many arts which the inhabitants practife to reach some favourite idea of the human form. Arts that infenfibly, through a course of time, produce a great and confpicuous effect. Arts which are ufually fuppofed to have only a perfonal influence; but which really have an operation on posterity alfo. The process of nature in this is as little known as in all her other works. This effect is frequently feen. Every remarkable change of feature that has grown into a habit of the body, is transmitted with other perfonal properties, to offspring. The coarfe

ting that any given state of climate were capable of producing the effects just mentioned, yet surely it will not be imagined that one general effect can result from the operation of so many and so different causes.

EDITOR.

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features of labouring people, created by hardfhips, and by long exposure to the weather, are communicated .- The broad feet of the ruffic, that have been fpread by often treading the naked ground; and the large hand and arm, formed by conftant labour, are discernible in children. The increase or diminution of any other limb or feature formed by habits that aim at an idea of beauty, may, in like manner, be imparted. We continually fee the effect of this principle on the inferior animals. The figure, the colour and properties of the horfe are 'eafily changed according to the reigning tafle. Out of the fame original flock the Germans who are fettled in Pennfylvania, raife large and heavy horfes; the Irifh raife fuch as are much lighter and finaller. According to the pains bestowed, you may raife from the fame race, horfes for the faddle and horfes for the draught. Even the colour can be fpeedily changed according as fashion is pleafed to vary its caprice. And, if tafte prefcribes it, the finest horses shall, in a

fhort time, be black, or white, or bay \*. Human nature much more pliant, and affected by a greater variety of caufes from . food, from clothing, from lodging and from manners, is still more eafily fusceptible of change, according to any general standard, or idea of the human form. To this principle, as well as to the manner of living, it may be, in part, attributed that the Germans, the Swedes and the French, in different parts of the United States, who live chiefly among themfelves, and cultivate the habits and ideas of the countries from which they emigrated, retain, even in our climate, a strong resemblance of their primitive flocks. Thofe, on the other hand, who have not confined themfelves to the contracted circle of their countrymen, but have mingled freely with the Anglo-Americans, entered into their manners, and adopted their ideas, have affumed fuch a likenefs to them, that it is not 3 H

\* By choosing horses of the requisite qualities, to fupply the study.

eafy now to diftinguish from one another people who have sprung from such different origins.

I have faid that the process of nature in this, as in all her other works, is inexplicable. One fecondary cause, however, may be pointed out, which seems to have confiderable influence on the event\*. Connexions in marriage will generally be formed on this idea of human beauty in

Befides this, men will foon difcover those kinds of diet, and those modes of living that will be most favourable to their ideas. The power of imagination in pregnant women, might perhaps deferve fome confideration on this fubject. Some years fince, this principle was carried to excefs. I am ready to believe that philosophers, at prefent, run to extremes on the other hand. They deny entirely the influence of imagination. But fince the emotions of fociety have fo great an influence, as it is evident they have, in forming the countenance; and fince the refemblance of parents is communicated to children, why should it be deemed incredible that those general ideas which contribute to form the features of the parent, fhould contribute also to form the features of the child?

any country. An influence this which will gradually approximate the countenance towards one common flandard. If men in the affair of marriage, were as much under management as fome other animals, an abfolute ruler might accomplifh, in his dominions almost any idea of the human form. But, left as this connexion is to the paffions and interefts of individuals, it is more irregular and imperfect in its operations. And the negligence of the vulgar, arifing from their want of taste, impedes, in some degree, the general effect. There is, however, a common idea which men infenfibly to themfelves, and almost without defign, pursue. And they purfue it with more or lefs fuccefs in proportion to the rank and tafte of different classes in fociety, where they do not happen in particular inftances, to be governed in connexions of marriage by interest ever void of taste. The superior ranks will always be first, and, in general, most improved, according to the prevalent idea of national beauty; because they

have it, more than others, in their power to form matrimonial connexions favourable to this end. The Perfian nobility, improved in their idea of beauty, by their removal to a new climate, and a new state of fociety, have, within a few races, almost effaced the characters of their Tartarian origin. The Tartars, from whom they are defcended, are among the most deformed and stupid nations upon earth. The Perfians, by obtaining the most beautiful and agreeable women from every country, are become a tall, and well featured, and ingenious nation. The prefent nations of Europe have, with the refinement of their manners and ideas, changed and refined their perfons. Nothing can exceed the pictures of barbarifm and deformity given us of their anceftors, by the Roman writers. Nothing can exceed the beauty of many of the prefent women of Europe and America who are descended from them. And the Europeans, and Americans are, the most beautiful people in the world, chiefly, becaufe their state of fociety is the most im-

proved. Such examples tend to fhew how much the varieties of nations may depend on ideas created by climate, adopted by inheritance, or formed by the infinite changes of fociety and manners \*. They fhew, likewife, how much the human race might be improved both in perfonal and in mental qualities, by a well-directed care.

The ancient Greeks feem to have been the people most fensible of its influence. Their customs, their exercises, their laws, and their philosophy, appear to have had

\* Society in America is gradually advancing in refinement : and, if my obfervation has been juft, the prefent race furnifhes more women of exquifite beauty than the laft, though they may not always be found in the fame families. And if fociety fhould continue its progreffive improvement, the next race may furnifh more than the prefent. Europe has certainly made great advances in refinement of fociety, and probably in beauty. And if exact pictures could have been preferved of the human countenance and form in every age fince the great revolution made by the barbarians, we fhould, perhaps, find Europe as much improved in its features as in its manners.

in view, among other objects, the beauty and vigour of the human conftitution. And it is not an improbable conjecture, that the fine models exhibited, in that country, to statuaries and painters, were one cause of the high perfection to which the arts of fculpture and painting arrived in Greece. If fuch great improvements were introduced by art into the human figure, among this elegant and ingenious people, it is a proof, at once, of the influence of general ideas, and of how much might be effected by purfuing a just fyftem upon this subject. Hitherto, it has been abandoned too much to the government of chance. The great and noble have ufually had it more in their power than others to felect the beauty of nations in marriage: and thus, while, without fystem or defign, they gratified only their own tafte, they have generally diffinguished their order, as much by elegant proportions of perfon, and beautiful features, as by its prerogatives in fociety. And the tales of romances that defcribe the fuperlative beauty of captive princeffes, and

the fictions of poets, who characterife their kings and nobles, by uncommon dignity of carriage and elegance of perfon, and by an elevated turn of thinking, are not to be afcribed folely to the venality of writers prone to flatter the great, but have a real foundation in nature \*. The ordinary ftrain of language, which is borrowed from nature, vindicates this criticifm. A *princely* perfon, and a *noble* thought, are ufual figures of fpeech  $\dagger$ .—Mental capa-

\* Coincident with the preceding remarks on the nations of Europe, is an obfervation made by Capt. Cook, in his laft voyage, on the ifland Ohwyhee, and on the iflands in general, which he vifited in the great fouth fea. He fays, "the fame fuperiority "which is obfervable in the *Erees* [or nobles] "through all the other iflands, is found alfo here. "Thofe whom we faw, were, without exception, perfectly well formed; whereas the lower fort, befides their general inferiority, are fubject to all the variety of make and figure that is feen in the *popu-*"*lace* of other countries." Cook's third voyage, book 3d, chap. 6th.

+ Such is the deference paid to beauty, and the idea of fuperiority it infpires, that to this quality,

city, which is as various as climate, and as perfonal appearance, is, equally with the latter, susceptible of improvement, from fimilar caufes. The body and mind have fuch mutual influence, that whatever contributes to change the human conflictution in its form or afpect, has an equal influence on its powers of reafon and genius. And these have again a reciprocal effect in forming the countenance. One nation may, in confequence of conflicutional peculiarities, created more, perhaps, by the ftate of fociety, than by the climate, be addicted to a grave and thoughtful philofophy; another may possels a brilliant and creative imagination ; one may be en-

perhaps, does the body of princes and nobles, collectively taken, in any country, owe great part of their influence over the populace. Riches and magnificence in drefs and equipage, produce much of their effect by giving an artificial beauty to the perfon. How often does hiftory remark, that young princes have attached their fubjects, and generals their foldiers, by extraordinary beauty? And young and beautiful queens have ever been followed and ferved with uncommon enthuliafm.

dowed with acuteness and wit; another may be diftinguished for being phlegmatic and dull. Bæotian and Attic wit was not a fanciful, but real diffinction, though the remote origin of Cadmus and of Cecrops was the fame. The ftate of manners and fociety in those republics produced this difference more than the Bœotian air, to which it has been fo often attributed. By the alteration of a few political, or civil, or commercial inftitutions, and confequently, of the objects of fociety and the train of life, the eftablishment of which depended on a thousand accidental causes, Thebes might have become Athens, and Athens Thebes. Different periods of fociety, different manners, and different objects, unfold and cultivate different powers of the mind. Poetry, eloquence, and philofophy feldom flourish together in their higheft luftre. They are brought to perfection by various combinations of circumstances, and are found to fucceed one another in the fame nation at various periods, not because the race of men, but because manners and objects are changed.

IIG

If as faithful a picture could be left to posterity of perfonal as of mental qualities, we should probably find the one, in thefe feveral periods, as various as the other; and we should derive from them a new proof of the power of fociety to multiply the varieties of the human species. Not only deficiency of objects to give fcope to the exercise of the human intellect is unfavourable to its improvement; but all rudeness of manners is unfriendly to the culture, and the existence of taste, and even coarfe and meagre food may have fome tendency to blunt the powers of genius. These causes have a more powerful operation than has hitherto been attributed to them by philosophers; and merit a more minute and extensive illustration than the subject of this discourse will admit. The mental capacities of favages, for these causes, are usually weaker than the capacities of men in civilized fociety \*. The powers of their minds,

\* The exaggerated reprefentations which we fometimes receive of the ingenuity and profound wildom

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through defect of objects to employ them, lie dormant, and even become extinct. The faculties which, on fome occafions, they are found to poffefs, grow feeble through want of motives to call forth their exercife. The coarfenefs of their food, and the filthinefs of their manners, tend to blunt their genius. And the Hottentots, the Laplanders, and the people of New-Holland are the moft flupid of mankind ; for this, among other reafons, that they approach, in thefe refpects, the neareft to the brute creation  $\dagger$ .

of favages, are the fruits of weak and ignorant furprize. And favages are praifed by fome writers for the fame reafon that a monkey is—a certain imitation of the actions of men in fociety, which was not expected from the rudeness of their condition. There are doubtless degrees of genius among favages as well as among civilized nations; but the comparison should be made of favages among themselves; and not of the genius of a favage with that of a polished people.

† It is well known that the Africans who have been brought to America, are daily becoming, under all the difadvantages of fervitude, more ingenious and

I am now come to fhow in what manner the features of favage life are affected by the ftate of fociety.

Civilization creates fome affinity in countenance among all polifhed nations. But there is fomething fo peculiar and fo ftupid in the general countenance of favages, that they are liable to be confidered as an inferior grade in the defcent from the human to the brute creation. As the civilized nations inhabit chiefly the temperate climates, and favages, except in America, the extremes of heat and cold, thefe differences in point of climate, combined with those that necessarily arise out of their flate of fociety, have produced varieties fo great as to aftonish hasty observers, and hafty philosophers. The varieties; indeed, produced in the features by favage life are great; but the real fum of them is not fo

fusceptible of inftruction. This effect, which has been taken notice of more than once, may, in part perhaps, be attributed to a change in their modes of living, as well as to fociety, or climate.

great as the apparent. For the eye taking in at one view, not only the actual change made in each feature, but their multiplied and mutual relations to one another, and to the whole; and each new relation giving the fame feature a different afpect, by comparison, the final refult appears prodigious \*.--For example, a change made in the eye, produces a change in the whole countenance; because it presents to us, not fingly the difference that has happened in that feature, but all the differences that arife from its combinations with every feature in the face. In like manner, a change in the complexion prefents not its own difference only, but a much greater effect by a fimilar combination with the whole countenance. If both the eyes and the complexion be changed in the fame perfon, each change affecting the whole features, the combination of the two refults will produce a third incomparably

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\* See pages 83 and 84. 3

greater than either. If, in the fame way, we proceed to the lips, the nofe, the cheeks, and to every fingle feature in the vifage, each produces a multiplied effect, by comparifon with the whole; and the refult of all, like the product of a geometrical feries, is fo much beyond our first expectation, that it confounds common obfervers, and will fometimes embarrafs the most difcerning philosophers, till they learn, in this manner, to divide and combine effects.

that artic from its could

To treat this fubject fully, it would be neceffary, in the first place, to ascertain the general countenance of favage fociety —and then, as there are degrees in the favage as well as in the civilized state, to distinguish the several modifications which each degree makes in the general aspect and, in the last place, to confider the almost boundless varieties that arise from combining these general features with the effects of climate and of other causes already mentioned.—I do not propose, however, to pursue the subject to such extent. I shall

endeavour to draw, only, the general outlines of the favage countenance as it is formed by the ftate of fociety; and fhall leave its changes refulting from the different degrees of that ftate, and from the combinations of thefe with other caufes and effects, to exercise the leisure and obfervation of the ingenious.

The eye of a favage is vacant and unexpreflive—The whole composition of his countenance is fixed and flupid—and over these unmeaning features is thrown an air of wildness and melancholy—The muscles of the face are fost and lax—and the face is dilated at the fides—the mouth is large, the lips swelled and protruded—and the nose, in the same proportion, depressed \*.

# This is the picture –- To explain it I ob-I 3

\* In this reprefentation of the favage countenance, I have chiefly in view the American favage; although its general lineaments, and the caufes affigned for them, may, in a great degree, be univerfally applied.

ferve, that the expression of the eye, and of the whole countenance, depends on the nature and variety of thought and emotion. Joy and grief, folitude and company, objects of attention, habits, manners, whatever occupies the mind, tends to impress upon the countenance its peculiar traits. Mechanical occupations, and civil professions, are often diftinguished by peculiarities in manner and afpect. We frequently difcriminate with eafe religious denominations by a certain countenance formed by the habits of their profession. Every thought has an influence in forming and diverfifying the character of the countenance, and vacuity of thought leaves it unmeaning and fixed. The infinite variety of ideas and emotions in civilized fociety, will give every class of citizens fome diftinguishing expression, according to their habits and occupations; and will bestow on each individual fome fingular and perfonal traits, according to his genius, education, or pursuits. Between favage and civilized fociety there will be all the difference that can arife from think-

ing and from want of thought. Savages will have all that uniformity among themfelves in the fame climate, that arife from vacancy of mind, and want of emotion. Knowledge is various, but ignorance is ever the fame. A vacant eye, a fixed and unmeaning countenance of idiotifm, feem to reduce the favage in his afpect many grades nearer than the citizen, to the brute creation. The folitude in which he lives, disposes him to melancholy. He feldom fpeaks or laughs. Society rarely enlivens his features. When not engaged in the chace, having no object to roufe him, he reclines fluggifhly on the ground, he wanders carelefsly through the foreft, or he fits for hours in one posture, with his eyes fixed to a fingle point, and his fenfes loft in fullen and unmeaning reverie, Thefe folitary and melancholy emotions ferve to caft over his visage, which other causes render fixed, and unexpreffive, a fad and lugubrious air. The wild fcenes of nature in an uncultivated country impress some resemblance of themselves on the

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features—and the paffions of war and rage, which are almost the only ones that occupy the mind of a favage, mingle with the whole an afpect of brutal ferocity\*.

Paucity of ideas, folitude and melancholy, contribute likewife in no fmall degree, to form the remaining features of a favage—a large and protruded mouth, a dilated face, and a general laxnefs and fwell of all its mufcles  $\dagger$ .

Society and thought put a stricture upon the muscles of the face, which, while

\* The inhabitants of the numerous fmall islands in the great Southern and Pacific oceans form an exception to this remark. Prevented, by their islated ftate, from engaging in perpetual hostilities with neighbouring tribes, like the continental favages, they are distinguished by an air of mildness and complacence which is never seen upon the continent.

† That these are natural tendencies of folitude, and vacancy of thought, we may difcern by a small attention to ourselves, during a similar state, or similar emotions of mind.

it gives them meaning and expression, prevents them from dilating and swelling as much as they would naturally do. They collect the countenance more towards the center, and give it a greater elevation there\*. But the vacant mind of the favage leaving the face, the index of sentiment and pasfion, unexerted, its muscles are relaxed, they confequently spread at the fides, and render the middle of the face broad.

Grief, peculiarly, affects the figure of the lips, and makes them fwell.—So do all folitary and melancholy emotions. When, therefore, thefe are the natural refult of the ftate of fociety—when they operate from infancy, and are feldom counteracted by the more gay and intenfe emotions

\* The advancement of fociety and knowledge is probably one reafon why the Europeans in general have a more elevated countenance than the Afiatics. The reader will be kind enough to remember that all remarks of this nature are only general, and not intended to reach every particular inftance, or to infinuate that there may not, in the infinite variety of nature, be many particular exceptions.

of civil life, the effect will at length become confiderable. The mouth of a favage will generally be large, and the lips, in a lefs or greater degree, thick and protruded \*.

The nofe affects, and is affected by the other features of the face. The whole features ufually bear fuch relation to one another, that if one be remarkably enlarged, it is accompanied with a proportional diminution of others. A prominent nofe is commonly connected with a thin face, and thin lips. On the other hand, a broad face, thick lips, or a large and a blunt chin, is accompanied with a certain deprefiion of the feature of the nofe. It feems as if the extension of the nerves in one direction, restrained and shortened

\* The ruftic ftate, by its folitude and want of thought and emotion, bears fome analogy to the favage. And we fee it accompanied by fimilar effects on the vifage. The countenance vacant, the lips thick, the face broad and fpread, and all its mufcles lax and fwelling.

them in another \*. Savages, therefore, commonly have this feature more funk and flat, than it is in civil fociety. This, though a partial, is not the whole caufe of that extreme flatnefs which is obferved in part of Africa, and in Lapland. Climate enters there, in a great degree, for the effect; and it is aided by an abfurd fenfe of beauty that prompts them often to deprefs it by art †.

\* By a fmall experiment on ourfelves we may render this effect obvious. By a protufion of the lips, or by drawing down the mouth at the corners, we fhall find a ftricture on the nofe that, in an age when the features were foft and pliant, would fenfibly tend to deprefs it. A like tendency continued through the whole of life, would give them an habitual polition very different from the common condition of civilized fociety; and the effect would be much greater than would readily occur to our firft reflections upon the fubject.

+ That fuch an effect fhould be the refult of elimate is not more wonderful than the thick necks created by the climate of the Alps; or than other effects that certainly fpring from this caufe, within our own knowledge. That it arifes from climate, or the flate of fociety, or both, is evident, becaufe the nofe

The preceding obfervations tend to account for fome of the most distinguishing features of favages. To thefe I might have added another general reafon of their peculiar wildness and uncouthness in that ftate of fociety .- The feelings of favages, when they deviate from their usual apathy, are mostly of the uneafy kind; and to these they give an unconstrained exprespreffion. From this caufe will neceffarily refult a habit of the face, in the highest degree rude and uncouth. As we fee, a fimilar negligence among the vulgar adds exceedingly to that difgufting coarfenefs which fo many other causes contribute to create.

I have now finished the difcuffion which I proposed, as far as I defign at present to purfue it.—Many of the observations which have been made in the progress of it may, to perfons not accustomed to a nice examination of the powers of natural

is becoming more prominent in the posterity of those who have been removed from Africa to America.

causes, appear minute and unimportant. It may be thought that I have attributed too much to the influence of principles that are fo flow in their operation and imperceptible in their progress. But, on this fubject, it deferves to be remembered, that the minuteft causes, by acting constantly, are often productive of the greatest confequences. The inceffant drop wears a cavity at length in the hardest rock. The imprefiions of education, which fingly taken are fcarcely difcernible, ultimately produce the greatest differences between men in fociety. How flow the progress of civilization, which the influence of two thoufand years hath, as yet, hardly ripened in the nations of Europe? How minute and imperceptible the operation of each particular caufe that has contributed to the final refult ? And, yet, how immenfe the difference between the manners of Europe barbarous, and of Europe civilized ? There is furely not a greater difference between the figure and afpect of any two nations on the globe. The pliant nature of man is fusceptible of change from

the minuteft caufes, and thefe changes, habitually repeated, create at length confpicuous diffinctions. The effect proceeds increafing from one generation to another, till it arrives at that point where the conflitution can yield no farther to the power of the operating caufe. Here it affumes a permanent form and becomes the character of the climate or the nation.

Superficial thinkers are often heard to ask, why, unless there be an original difference in the species of men, are not all born at least with the fame figure, or complexion? It is fufficient to answer to fuch inquiries, that it is for the fame reafon, whatever that may be, that other refemblances of parents are communicated to children. We fee that figure, stature, complexion, features, difeases, and even powers of the mind become hereditary. To those who can fatisfy themselves with regard to the communication of these properties, the transmission of climatical or national differences ought not to appear furprifing-the fame law will account for

both.—If it be afked why a fun-burnt face or a wounded limb is not alfo communicated by the fame law ? it is fufficient to anfwer that thefe are only partial accidents which do not change the inward form and temperament of the conftitution. It is the conftitution that is conveyed by birth. The caufes which I have attempted to illuftrate, change, in time, its whole ftructure and composition—And when any change becomes incorporated, fo to fpeak, it is, along with other conftitutional properties, transmitted to offspring.

I proceed now to confider the exceptions exifting among mankind that feem to contradict the general principles that have been laid down concerning the influence of climate, and of the ftate of fociety.

I begin with obferving, that these exceptions are neither so numerous nor so great as they have been represented by ignorant and inaccurate travellers, and by credulous philosophers. Even Buffon seems to be credulous when he only doubts con-

cerning the relations of Struys, and other prodigy-mongers, who have filled the hiftories of their voyages with crude and hafty obfervations, the effects of falfehood, or of flupid furprife. Nothing can appear more contemptible than philofophers with folemn faces, retailing like maids and nurfes, the flories of giants \* ---of tailed men †---of a people without

\* Buffon, defcribing the inhabitants of the Marian, or Ladrone illands, fuppofes that they are, in general, a people of large fize; and that fome may have been feen there of gigantic flature. But before Buffon wrote, there was hardly a navigator who did not fee many giants in remote countries. Buffon has the merit of rejecting a great number of incredible narrations.

+ Lord Monboddo fuppofes that mankind, at firft, had tails—that they have fallen off by civilization but that there are ftill fome nations, and fome individuals, who have this honourable mark of affinity with the brutes. What effect might refult from the conjunction of a favage with an ape, or an Orang-Outang, it is impoffible to fay. But a monftrous birth, if it fhould happen, however it may be exaggerated by the ignorance of failors, fhould never be dignified as a fpecies in the writings of philofophers.

teeth \*----and of fome abfolutely without necks †. It is a fhame for philosophy at this day to be fwallowing the falfehoods, and accounting for the abfurdities of failors. We in America, perhaps, receive fuch tales with more contempt than other nations; becaufe we perceive in fuch a ftrong light, the falsehood of fimilar wonders, with regard to this continent, that were a few years ago reported, believed, and philosophifed on in Europe. We hear every day the abfurd remarks, and the false reasonings of foreigners on almost every object that comes under their obfervation in this new region. They judge of things, of men, and of manners under the

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\* A most deformed and detestable people whom Buffon speaks of as natives of New-Holland.

+ Sir Walter Raleigh pretends to deferibe a people of that kind in Guiana. Other voyagers have given a fimilar account of fome of the Tartar tribes. The necks of thefe Tartars are naturally extremely flort; and the fpirit of travelling prodigy has totally deftroy? ed them.

influence of habits and ideas framed in a different climate, and a different ftate of fociety; or they infer general and erroneous conclusions from fingle and mistaken facts, viewed through that prejudice, which previous habits always form in common minds \*.

hent, the littlehood of Duning won-

\* It requires a greater portion of reflexion and philofophy than falls to the lot of ordinary travellers to enable them to judge with propriety of men and things in distant countries. Countries are described from a single fpot, manners from a fingle action, and men from the first man that is feen on a foreign shore, and perhaps him only half feen, and at a diftance. From this fpirit, America has been reprefented by different travellers as the most fertile or the most barren region on the globe. Navigators to Africa often fpeak of the fpreading forefts and luxuriant herbage of that arid continent, becaufe fome fcenes of this kind are prefented to the eye along the fhores of the Gambia and the Senegal. And furprife occasioned by an uncommon complexion or composition of features, has increafed or diminished the stature of different nations beyond all the proportions of nature.-Such judgments are fimilar, perhaps, to those which a Chinese failor would form of the United States who had feen only cape May; or would form of Britain or of France, who had feen only the ports of Dover or of

Since America is better known, we find no canibals in Florida; no men in Guiana K 2

Calais. What information concerning those kingdoms could fuch a visitant afford his countrymen from fuch a vifit? Befide the limited fphere of his obfervation, he would fee every thing with aftonifhment or with difgust, that would exaggerate, or diftort his reprefentation. He would fee each action by itfelf without knowing its connexions; or he would fee it with the connexions which it would have in his own country. A fimilar error induced Capt. Cook, in his first voyage, to form an unfavourable opinion of the modefty and chaftity of the women of Otabeite, which more experience taught him to correct. Many fuch falfe judgments are to be found in almost every writer of voyages or travels. The favages of America are reprefented as frigid, becaufe they are not ready for ever to avail themfelves of the opportunities offered by their ftate of fociety, to violate the chaftity of their females. They are fometimes represented as licentious, because they often lie promiscuoully round the fame fire. Both judgments are falfe, and formed on prepoffellions created in fociety. Simplicity of manners, more than constitution, or · than climate, produces that appearance of indifference, on the one hand, that is called frigidity, and that promiscuous intercourse, on the other, that is suppofed to be united with licence. Luxury, reftraints,

with heads funk into their breafts; no martial Amazons. The giants of Patagonia have difappeared; and the fame fate fhould have attended those of the Ladrone islands, whom Buffon, after Gemelli Carre-

and the arts of polifhed fociety inflame defire, which is allayed by the coarfe manners, and hard fare of favage life, where no ftudied excitements are used to awaken the paffions. The frontier counties of all these states at prefent afford a striking example of the truth of this reflexion. Poor, and approaching the roughnefs and fimplicity of favage manners, and living in cabins that have no divisions of apartments, whole families, and frequently ftrangers lodge together in the fame inclofure without any fenfe of indecency, and with fewer violations of chaftity than are found amidst the restraints and incitements of more polifhed fociety. On a like foundation cowardice has been imputed to the natives of America, becaufe they profecute their wars by ftratagem-infenfibility, becaufe they fuffer with patience-and thievifhnefs, becaufe a favage, having no notion of perfonal property but that which he has in prefent occupation and enjoyment, takes without fcruple what be wants, and fees you do not need. In innumerable inftances the act of one man, the figure or ftature of the first vagrant feen upon a diftant fhore, has furnished the character of a whole nation. It is abfurd to build philosophic theories on the ground of fuch ftories.

ri, has been pleafed to mention. Tavernier's tales of the fmooth and hairlefs bodies of the Mogul women, may be ranked with those which have fo long, and so falsely attributed this peculiarity to the natives of America. The same judgment may we form of those histories which represent nations without natural affection; without ideas of religion; and without moral principle\*. In a word, the greater

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\* Nations have been judged to be without religion becaufe travellers have not feen temples; becaufe they have not underftood their cuftoms, or their language; or have not feen them engaged in any act of worship. Nations have been judged to be without natural affection, because one man has been seen to do an act of barbarity. But one of the nations which feems to have departed fartheft from the laws of human nature is mentioned by Lord Kames in his laudable attempts to difprove the truth of revelation. He thinks it certain that the Giagas, a nation of Africa, could not have defcended from one origin with the reft of mankind, becaufe, totally unlike all others, they are void of natural affection. They kill, fays his Lordship, all their own children as foon as they are born, and fupply their places with youth ftolen

part of those extraordinary deviations from the laws of climate, and of society, which formerly obtained credit, are discovered, by more accurate observation, to have no existence. If a few marvellous phenomena are still retailed by credulous writers, a fhort time will explode them all, or show that they are misunderstood, and enable philosophers to explain them on the known principles of human nature.

Leaving fuch pretended facts and the reafonings to which they have given rife, to deferved contempt, I fhall confider a few apparent deviations from the preceding

from the neighbouring tribes. If this character had been true, even his Lordship's zeal for a good caufe, might have fuffered him to reflect that the Giagas could not have continued a feparate race, longer than the first stock should have lived. The stolen youth would refemble their parents, and would, at length, compose the nation. And yet the Giagas, according to his Lordship, would continue to kill their children, and to be a standing monument of the falsehood of the feriptures! An excellent specimen of the easy faith of infidelity.——Prelim. Difc. to Sketches of the Hist. of Man, by Lord Kames.

principles that have been afcertained. It will not be neceffary to go into an extenfive detail of minute differences. These might be tedious and unimportant : I shall propose only the most conspicuous; perfuaded that, if they are satisfactorily explained, every reasonable inquirer will rest convinced that natural causes exist in every country sufficient to account for smaller distinctions.

In tracing the fame parallels from east to weft, we do not always difcern the fame features and complexion. In the countries of India, and on the northern coasts of Africa, nations are mingled together who are diftinguisted from one another by great varieties. The torrid zone of Afia is not marked by such a deep colour nor by such parched hair as that of Africa; and the colour of tropical America is, in general, lighter, than that of Afia.

Africa is not uniform. The complexion of the western coast is a deeper black than

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that of the eastern. It is even deeper on the north of the equator than on the fouth. The Abyflinians form an exception from all the other inhabitants of the African zone—and when we go beyond that zone to the fouth, the Hottentots feem to be a race by themfelves. In their manners the most beastly, and in their persons and the faculties of their minds approaching the nearest to brutes of any of the human species.

For the explication of these varieties it is neceffary to observe, that the same parallel of latitude does not uniformly indicate the same temperature of heat and cold. Vicinity to the sea, the course of winds, the altitude of lands, and even the nature of the soil, create great differences in the same climate. The state of society in which any nation takes possible of a new country has a great effect in preferving, or in changing their original appearance. Savages necessarily undergo great changes by fuffering the whole action and force of climate without protection. Men

in a civilized state enjoy innumerable arts by which they are enabled to guard against its influence, and to retain fome favourite idea of beauty formed in their primitive feats : Yet every migration produces a change. And the combined effects of many migrations, fuch as have been made by almost all the prefent nations of the temperate zone, must have great influence in varying the human countenance. For example-A nation which migrates to a different climate will, in time, be impreffed with the characters of its new state. If this nation should afterwards return to its original feats, it would not perfectly recover its primitive features and complexion, but would receive the impreffions of the first climate, on the ground of those created in the fecond. In a new removal the combined effect of the two climates would become the ground, on which would be impressed the characters of the third. This exhibits a new caufe of endless variety in the human countenance.

These principles will serve to explain

many of the differences that exift in those countries which have been the fubjects of most frequent conquest \*. India and the northern regions of Africa, have been often conquered, and many nations have established colonies in these countries for the purposes of commerce. All these nations before their migrations, or their conquests, were in a less or greater degree civilized. They were able, therefore, to preferve, with fome fuccefs, their original features against the influence of the climate. Their diet, their habits, their manners and their arts, all would contribute to this effect. As these causes are capable of creating great varieties among men, much more are they capable of preferving varieties already created. The Turks, therefore, the Arabs, and the Moors in the north of Africa, will remain diffinct in their figure and complexion, as long as

\* Efpecially if religion, manners, policy, or other caufes, prevent people from uniting freely in marriages, and from fubmitting to the fame fyftem of government and laws. 3

their manners are different. And the continent and iflands of India will be filled with a various race of people while the productions of their climate continue to invite both conquefts and commerce. The climate will certainly change in a degree the appearance of all the nations who remove thither; but the difference in the degree and the combination of this effect with their original characters, will ftill preferve among them effential and confpicuous diffinctions \*.

COLDATEGRIOS

\* From the preceding principles we may juftly conclude that the Anglo-Americans will never refemble the native Indians. Their civilization will prevent fo great a degeneracy. But were it poffible that they fhould become favage, the refemblance could never be complete; becaufe the one would receive the imprefions of the climate on a countenance, the ground of which was formed in Europe, and in a ftate of improved fociety; the other has plainly received them on a countenance formed in Tartary. And yet the refemblance becomes near and ftriking in thofe perfons who have been captivated by the Indians in infancy, and have grown up among them in the habits of favage life. Thefe principles likewife will lead us to conclude that the Samoiedes are Tar-

Another variety which feems to form an exception from the principles hitherto laid down, but which really establishes them, is that the torrid zone of Afia is not marked by fuch a deep colour, nor, except in a few countries, by fuch curled hair, as that of Africa. The African zone is a region of burning fand which augments the heats of the fun to a degree almost inconceivable. That of Afia confifts chiefly of water which, abforbing the rays of the fun, and filling the atmosphere with a cool and humid vapour, creates a wind comparatively temperate over its numerous islands and narrow peninfulas. The principal body of its lands lies nearer to the northern tropic than to the equator. In fummer the winds blow from the fouth across extensive oceans; in the winter from continents that

tars degenerated by the effects of extreme cold—and that the Empire of China and most of the countries of India have been peopled from the north. For their countenance feems to be composed of the fost feature of the Lower Asia, laid upon a ground formed in the Upper Asia. 3

the fun has long deferted \*. Yet, under all the advantages of climate which Afia enjoys, we find in Borneo and New-Guinea, and perhaps in fome others of those vaft infular countries, which, by their polition and extent, are fubject to greater heats than the continent, or by the favage condition of the inhabitants, fuffer the influence of those heats, in a higher degree, a race of men refembling the African negroes. Their hair, their complexion and their features, are nearly the fame. At the diftance of more than three thousand · miles across the Indian ocean, it is impoffible that they fhould have fprung from the favages of Africa, who have not the means of making fuch extensive voyages t. Similarity of climate, and of manners, have

\* The monfoons are found to blow over the whole Afiatic zone.

† The Europeans were highly civilized before they difcovered the continent of America, which is not fo remote from their flores as Borneo or New-Holland is from the coaft of Africa.

created this striking refemblance, between people so remote from one another.

The next apparent exception we difcover in Africa itself. Africa, like Europe and Afia, is full of varieties, arifing from the fame causes, vicinity to the fun, elevation of the land, the heat of winds, and the manners of the people. But the two principal diffinctions of colour, under which the reft may be ranged, that prevail from the northern tropic, or a little higher, to the Cape of Good-Hope, are the Caffre and the negro. The Caffre complexion prevails along the eaftern coaft, and in the country of the Hottentots. The negro, on the western coast between the tropics. The negro is the blackeft colour of the human skin, the Caffre is much lighter, and feems to be the intermediate grade between the negro and the native of India. The caufe of this difference will be obvious to those who are acquainted with that continent. The winds under the equator, following the courfe of the fun, reach the eastern coast of Af-

rica, cooled by blowing over immenfe oceans, and render the countries of Aian, Zanguebar and Monomotapa, comparatively temperate. But after they have traversed that extensive continent, and in a paffage of three thousand miles have collected all the fires of the burning defert to pour them on the countries of Guinea, of Sierra-Leona, and of Senegal \*, they glow with an ardor unknown in any other portion of the globe. The intense heat, which, in this region, makes fuch a prodigious change on the human conftitution, equally transforms the whole race of beafts and of vegetables. All nature bears the marks of a powerful fire †. And the negro is no

\* These countries receive the wind after blowing over the widest and hottest part of Africa, and confequently fuffer under a more intense heat than the countries of Congo, Angola, or Loango to the south of the equator. Accordingly, we find the people of a deeper black in the northern than in the southern fection of the torrid zone.

+ The luxuriancy of the trees and herbage along the banks of the great rivers has deceived fome tra-

more changed from the Caffre, the Moor, or the European, than the proportional laws of climate, and of fociety, give us reafon to expect. Above the Senegal, we find in the nation of the Foulies a lighter fhade of the negro colour; and immediately beyond them to the north, the darkest copper of the Moorish complexion. There is a smaller interval between the copper colour and the perfectly black on the north than on the fouth of the torrid zone; becaufe the Moors being more civilized than the Hottentots, are better able to defend themfelves against the impreffions of the climate. But the Hottentots, being the most favage of mankind, fuffer

vellers who have reprefented Africa as a rich and fertile country. As foon as you leave the rivers, which are very few, you enter on a parched and naked foil. And the whole interior parts of that continent, as far as they have been explored, are little elfe than a defert of burning fand, that often rolls in waves like the ocean. Buffon mentions a nation in the centre of Africa, the Zuinges, who, the Arabian writers fay, are often almost entirly cut off, by hot winds that rife out of the furrounding deferts.

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the influence of their climate in the extreme. And they endeavour, by every mean, to preferve the features and the complexion of the equator, from whence, it is probable, they derived, with their ancestors, their ideas of beauty. It is more eafy to preferve acquired features or complexion, than to regain them after they have been loft. The Hottentots preferve . with fome fuccefs, those that they had acquired under the equator. They flatten, by violence, the nofe of every child foon after it is born; they endeavour to deepen the colour of the skin by rubbing it with the most filthy unguents, and by exposing it to the influence of a fcorching fun; and their hair they burn up by the vileft compositions. Yet, against all their efforts, the climate, though it is but a few degrees declined from the torrid zone, vifibly prevails. Their hair is thicker and longer than that of the negroes; and their complexion near the Cape is the lighteft flain of the Caffre colour. Allowing for the effects of their favage condition, and of

their brutal manners, they are marked nearly with the fame hue that diftinguishes the correspondent northern latitudes\*.

As you afcend along the eastern coaft from Cafraria to Aian, the complexion becomes gradually deeper, till fuddenly you find, in Abysfinia, a race of men refembling the fouthern Arabians. Their hair is long and straight, their features tolerably regular, and their complexion a very dark olive approaching to the black. This fingularity is eafily explained on the principles already eftablished : and it is an additional confirmation of these principles that they are found to reach all the effects to which they are applied. The Abyffinians are a civilized people, and bear evident marks of Afiatic origin. They are fituated in the mildest region of tropical

\* With regard to other peculiarities that have been related of this people, and that reduce them in their figure the nearest to the brute creation of any of the human species, great part of them are false, others exaggerated, and those that are true are the natural offspring of their brutal manners.

Africa, and are fanned by the temperate winds that blow from the Indian ocean. Abyfinia is likewife a high and mountainous country, and is wafhed during half the year by deluges of rain which impart unufual coolnefs to the air. It is, perhaps, one of the most elevated regions on earth, as, from its mountain fpring two of the largest and the longest rivers in the world, the Niger and the Nile\*. This altitude of the lands, raifes it to a region of the atmosphere that is equivalent to many degrees of northern latitude †. Thus, the

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\* The prodigious and inceffant deluges of rain that fall in Abyfinia during fix months in the year, are the caufe of the overflowing of the Nile. They render the atmosphere temperate, and are a proof of the elevation of the country, no lefs than the length of the rivers that originate in its mountains. The greatest quantity of rains ufually fall on mountains and the highest lands; and their elevation may, in a great measure, be determined by the length of the rivers that iffue from them.

† Some writers inform us that the barometer rifes in Abyffinia, on an average, no higher than 20 inches. If this be true, that kingdom must be situated more

civilization of the people, the elevation of the country, the temperature of the winds, and inceffant clouds and rain during that feafon of the year in which the fun is vertical, all contribute to create that form and colour of the human perfon in Abyffinia, which is confidered as a prodigy in the torrid zone of Africa.

Having confidered the principal objections to the preceding theory exifting in India and Africa, it may be expected that I fhould not omit to mention the white Negroes of Africa, and the white Indians of Darien, and of fome of the oriental iflands, which are fo often quoted upon this fubject. Ignorant or interefted writers have endeavoured to magnify this phenomenon into an argument for the original diffinction of fpecies. But thofe

than two miles above the level of the fea. But if we fhould fuppofe this account to be exaggerated, ftill we must judge its altitude to be very great, confidering that it is almost entirely a region of mountains, which are the fources of those vast rivers.

who have examined the fact with greater accuracy, have rendered it evident that their colour is the effect of fome diftemper. These whites are rare; they have all the marks of an extreme imbecility; they do not form a separate race, or continue their own species; but are found to be the accidental and diseased production of parents who themselves possels the full characters of the climate \*.

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\* Mr James Lind, a phylician of great reputation, has recorded a fimilar deviation from the law of climate in a black child born of white parents. The fact he affures us occurred to his own obfervation. See Phil. Tranf. of Roy. Soc. Lond. N° 424.

The fmall tribe of red people, which Dr Shaw, in his travels, relates that he faw in the mountains of Aurefs, a part of the vaft ridge of Atlas, are probably a remnant of the Vandals who, in the fifth century, conquered the northern countries of Africa. Their manners, and the altitude of their fituation, in thofe cold mountains, may have contributed to preferve this diffinction between them and the Moors and Arabs, who live in the low lands. Lord Kames, who writes with infinite weaknefs on this fubject, exclaims

It now remains only to account for the afpect of the favage natives of America, which varies from the examples we have confidered in the other portions of the earth. Their complexion is not fo fair as that of Europe or of Middle Afia. It is not fo black as that of Africa, and many of the oriental iflands. There is a greater uniformity of countenance throughout this whole continent than is found in any other region of the globe of equal extent.

That the natives of America are not fair, is a natural confequence of the principles already established in this effay; in which

with an air of triumph, if the climate in a thoufand years has not changed thefe people into a perfect refemblance of the aborigines, we may fafely pronounce it never will change them,—I confefs it, if they preferve their prefent elevation. But to conclude that the climate cannot change them on the plains, becaufe it has not changed them on the mountains, is the fame kind of reafoning as it would be to conclude that the fun could not melt fnow at the bottom of Ætna or Pambamarca becaufe it continues eternally frozen at the top.

it has been shown that favages, from their exposure, their hardships, and their manner of living, must, even in temperate climates, be discoloured by different shades of the tawny complexion.

The uniformity of their countenance refults in fome degree from that of the climate, which is the lefs various, that Ametica poffeffes the cooleft tropical region in the world. But it refults principally from their flate of fociety, their manners, their means of fubfiftence, the nature and limitation of their ideas, which preferve an uncommon refemblance from Canada to Cape Horn. Though complexion is lefs diverfified in America than in other regions of the earth; yet there is a fenfible gradation of colour \*, till you arrive at the darkeft

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\* In travelling from the great lakes to Florida or Louifiana, through the Indian nations, there is a vifible progression in the darkness of their complexion. And at the councils of confederate nations, or at treaties for terminating an extensive war, you often

hue of this continent in the nations on the weft of Brazil. Here the continent being wider, and confequently hotter, than in any other part between the tropics, is more deeply coloured. And the Toupinamboes and Toupayas, and other tribes of that region, bear a near refemblance, in their complexion, to the inhabitants of the oriental zone. We find indeed no people in America fo black as the Africans. This is the peculiarity that attracts moft obfervation and inquiry. The caufe I propofe now to explain.

The torrid zone of America is uncommonly temperate. This effect arifes in

fee fachems and warriors of very different hues. But the colour of the natives of America, though diverfified, is lefs various than in other quarters of the globe of equal extent of latitude. And as the fame ftate of fociety univerfally prevails, there is a fyftem of features that refults from this, which is every where fimilar. Thefe features giving the predominant afpect to the face, and being united with a complexion lefs various than in Africa or Afia, form what is called the uniformity of the American countenance.

part from its shape; in part from its high mountains, and extensive lakes and rivers; and in part from its uncultivated state. All uncultivated regions, covered with forefts and with waters, are naturally cold\*. The torid zone of America is narrow-its mountains and its rivers are immenseand Amazonia may be confidered, during a great portion of the year, as one extenfive lake †. Let us advert to the influence of these circumstances. The empire of Mexico is a continued ifthmus of high and mountainous lands. Cool by their elevation, they are fanned on each fide by winds from the eaftern and western oceans. Terra Firma is a hilly region. Amazonia,

\* The difference, in point of climate, which cultivation has produced between modern and ancient Europe, is well known. And it is probable that, if civilization fhall, in future time, be introduced into Tartary, that frozen climate will be mollified, and the deformed Tartars may, with change of climate and of manners, become perfonable men.

+ On account of its numerous rivers and its flooded lands. 4

though low and flat, is fhaded by boundlefs forefts, and cooled by the numerous waters that flow into the largest rivers in the world. The mildness of its atmofphere is augmented by the perpetual eaft wind that blows under the equator. This wind having deposited in the Atlantic ocean the heats acquired in its paffage across the continent of Africa, regains a moderate temperature before it arrives at the American coaft. In America it continues its courfe over thick forefts and innumerable waters, to the mountains of the Andes. The Andes are colder than the Alps. And the empire of Peru defended, on one fide, by these frozen ridges; fanned on the other by a perpetual west wind from the Pacific ocean; and covered by a canopy of denfe vapour, through which the fun never penetrates with force, enjoys a temperate atmosphere. The vast forests of America are an effect of the temperature of the air, and contribute to promote it. Extreme heat parches the foil, and converts it into an arid fand-luxuriant

vegetation is the fruit of a moift earth, and a temperate fky. And the natives, inhabiting perpetual fhade, and refpiring in the grateful and refrigerating effluvia of vegetables, enjoy, in the midft of the torrid zone, a moderate climate.

These observations tend to show that, as far as heat is concerned in the effect, the colour of the American must be much less deep than that of the African, or even of the Afiatic zone. And to me it appears, and, I doubt not, to every candid and intelligent inquirer, that the co-operation of fo many causes is fully adequate to account for the differences between the complexion of the Negro and of the Indian.

Thus have I concluded the examination, which I proposed, into the causes of the principal varieties of person that appear in the different nations of the earth. And I am happy to observe, on this subject, that the most accurate investigations into the power of nature ever serve to confirm the

facts vouched by the authority of revelation. A just philosophy will always be found to be coincident with true theology. The writers who, through ignorance of nature, or through prejudice against religion, attempt to deny the unity of the human species, do not advert to the confufion which fuch principles tend to introduce. The science of morals would be abfurd; the law of nature and nations would be annihilated; no general principles of human conduct, of religion, or of policy could be framed; for, human nature, originally, infinitely various, and, by the changes of the world, infinitely mixed, could not be comprehended in any fystem. The rules which would refult from the ftudy of our own nature, would not apply to the natives of other countries who would be of different species; perhaps, not to two families in our own country, who might be fprung from a diffimilar compofition of fpecies. Such principles tend to confound all science, as well as piety; and leave us in the world uncertain whom to

truft, or what opinions to frame of others. The doctrine of one race, removes this uncertainty, renders human nature fusceptible of fystem, illustrates the powers of phyfical caufes, and opens a rich and extenfive field for moral fcience. The unity of the human race I have confirmed by explaining the caufes of its variety .- The first and chief of these I have shown to be climate; by which is meant, not fo much the latitude of a country from the equator, as the degree of heat or cold, that depends on many connected circumstances. The next, is the flate of fociety, which greatly augments or corrects the influence of climate, and is itself the independent caufe of many confpicuous diftinctions among mankind. These causes may be infinitely varied in their degree, and in their combinations with other principles. And in the innumerable migrations of mankind, they are modified by their own previous effects in a prior climate, and a prior flate of focie-

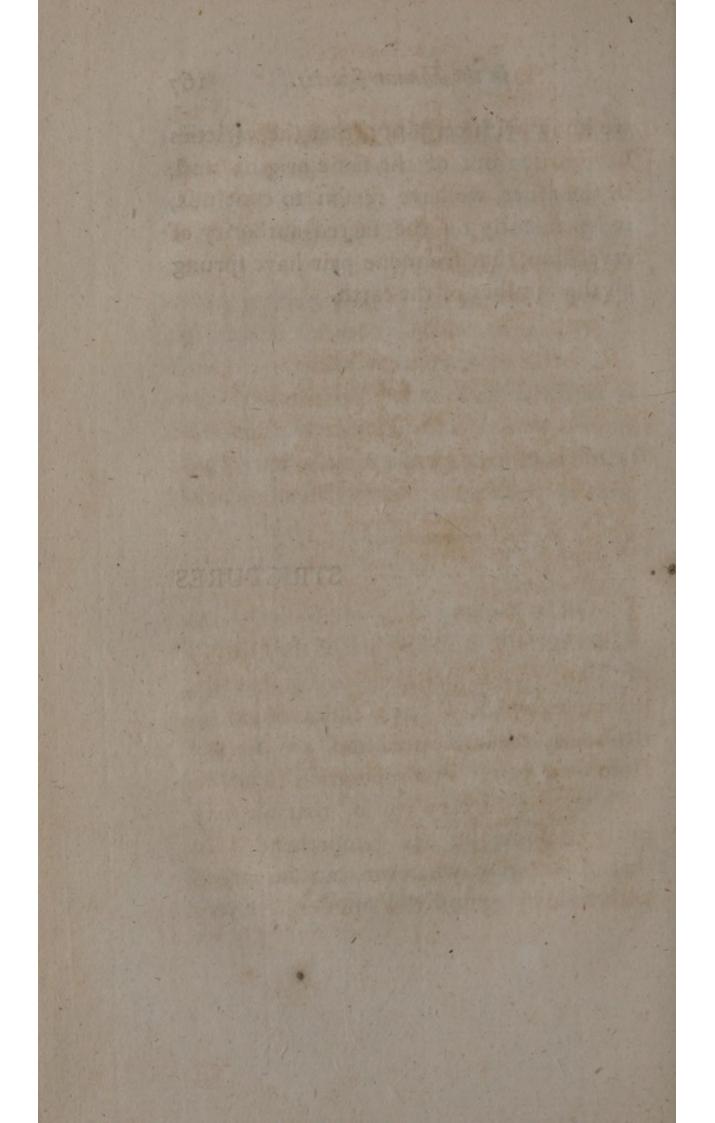
ty\*. Even where all external circumftances feem to be the fame, there may be fecret caufes of difference, as there are varieties in the children of the fame family. The fame country often exhibits differences among individuals fimilar to those which diffinguish the most distant nations. Such differences prove, at least, that the human constitution is fusceptible of all the changes that are seen among men. It is not more astonishing that nations, than that individuals should differ †. In the one case,

#### \* Vide pages 146 and 147.

+ It would be lawful, if it were neceffary, to have recourfe to accidental caufes to account for the varieties of nations; and to fuppofe that a country might have, at first, been peopled by fome ancestor most like the natives in features and in figure. It would not be a strained supposition, because we frequently see deformed perfons in civil society refemble almost every favage nation. And those who are acquainted with American migrations know, that, commonly, the most poor, and lazy, and deformed, are the first to push their fortune in a rude and favage wilderness, where they can live, without labour, by fishing and hunting.

we know with certainty, that the varieties have arifen out of the fame origin; and, in the other, we have reafon to conclude, independently on the facred authority of revelation, that from one pair have fprung all the families of the earth.

### STRICTURES



# STRICTURES

ON

LORD KAMES'S DISCOURSE

ON THE

ORIGINAL DIVERSITY OF MANKIND.

**L**ORD Kames, in a preliminary difcourfe to his Sketches of the Hiftory of Man, has undertaken to combat the principle which I have endeavoured to maintain, that all mankind are fprung from one pair. His reputation stands fo high in the literary world, that we may justly prefume he has comprehended in that differtation whatever can be urged with folidity against this opinion. Every

#### Strictures on

reader will probably deem the refutation of fuch an antagonist, no inconfiderable addition to the force of the preceding argument.

The character of Lord Kames, as an author, appears in this difcourfe far inferior to that which he has juftly obtained from his other works. And in fome ftrictures which I am now to make upon it, I propose to show that many of the fupposed facts on which his Lordship relies in the train of his argument, have no existence, and that almost the whole of his reasoning is inconclusive.

In the first place he fays, "certain it is "that all men, more than all animals, are not equally fitted for every climate. "There were therefore created different kinds of men at first, according to the nature of the climate in which they were to live. And if we have any belief in providence, it ought to be fo. Because men, in changing their climate

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Lord Kames's Difcourfe.

" ufually become fickly and often dege-" nerate."

This power of the climate to change the person which his Lordship confesses, when he calls it the degenerating of mankind, is the principle for which I plead; and which, united with the influence of the ftate of fociety, is fufficient to explain all the changes that are visible in the different nations of the earth. Are not the inhabitants of Guinea and of Lapland, degenerated races compared with the inhabitants of France and England? If these people had, in their own climates, attained the perfection of their nature, and the civilized Europeans had, by being transplanted thither, degenerated far below them, the argument then would have had fome force. But fince the greatest degeneracy of Europeans is only a refemblance of thefe favages, the example concludes against his Lordship's principle.

But men, he contends, were not made M 2

for different climates, "becaufe, in change-"ing their climate, they ufually become fickly."

This argument fuppofes that man was not made for fituations in which he is liable to encounter danger or diseafe. And yet we fee him, as it were by the appointment of providence, continually encountering both. If this argument were of weight, man is only an intruder on this world ; for, every where he meets with ficknefs, and with death. True it is, men, by making great and fudden changes of climate or of country, are exposed to difease. But it is equally true of fimilar changes even in the modes of living. And the argument proves only that all fuch alterations fhould be made gradually, and with precaution. If this prudential conduct be observed, the human constitution, as is known from actual experiment, is capable of enduring the influence of every climate. It becomes, in time, affimilated by its fituation. And the progeny of foreigners come at length to refemble the natives, if

they adopt the fame manners .--- In America we are liable to diforder, by removing incautiously from a northern to a fouthern state; and even from one part to another of the fame state: but it would be absurd to conclude thence, that we are not of one fpecies from New-Hampshire to Georgia. Shall we conclude that the top of every hill, and the bank of every river are inhabited by different species, because the latter are lefs healthy than the former? The conftitution becomes attempered, in a degree even to an unhealthy region, and then is feels augmented fymptoms of diforder, on returning to the most falubrious air and water : but does this prove that nature never intended fuch men to drink clear water, or to breathe in a pure atmofphere? This argument destroys itself by the extent of the confequences which it draws after it.

His Lordfhip's fecond argument, which is only a repetition of part of the first, is certainly an extraordinary example of phi-

M 3

lofophic reafoning—" Men," fays he, " muft have been originally of different " ftocks, adapted to their refpective cli-" mates, becaufe an European degenerates " both in vigour and in colour on being " removed to South America, to Africa, or " to the Eaft Indies."

The fact is as his Lordship states it. An European changes his colour on being removed to these distant climates. But one would think that true philosophy should have drawn from this fact a contrary conclusion. Certainly if an European had not degenerated, as he expresses it, in colour and in vigour, on being removed to other climates, it would have been a stronger proof of the original difference of races.

He confirms this obfervation, however, by the example of "a Portuguefe colony "on the coaft of Congo, who in a courfe "of time, he affirms, have degenerated fo "much, that they fcarce retain the ap-"pearance of men.", 2

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A fact more to the purpole of the preceding effay could not be adduced. Let it be applied to the neighbouring tribes of Negroes and of Hottentots. Though they, in like manner, are become fo rude that fcarcely do they retain the appearance of men, does not his Lordship's example prove that, in fome remote period, they might have defcended from the fame origin with these degenerated Portugues?

His Lordship has been egregiously deceived in the fact from which he attempts to prove that America is not adapted to European conflictutions. He afferts that "Charlestown in Carolina is infufferably "hot; because (fays he) it has no fea-"breeze—that Jamaica itself is a more "temperate climate—and that the inha-"bitants of both die fo fast that if conti-"nual recruits did not arrive from Eu-"rope to supply the places of those that "perish the countries would be soon de-"populated,"—How cautious should philosophers be of afferting facts, without M 4

well examining the authority on which they receive them! All thefe affertions are equally and entirely falfe. And if a philofopher, and a Lord of Seffions in Scotland, talks fo ignorantly of that country which, from its long and intimate connection with Britain, he fhould have underftood better than any other, we may juftly prefume that he is lefs acquainted with the Afiatic and African nations; and that the objections drawn from them by him, and by inferior writers, againft the doctrine of one race, are ftill more weak and unfounded.

His Lordship uses, as another argument for the original diversity of species among mankind that common European mistake, that " the natives of America are desti-" tute of hair on the chin and body."

That philosophers should sometimes be deceived in their information is not furprifing; but they are certainly blameable, after having found in so many repeated examples the falsehood of voyagers, or

their incapacity for obfervation, to reft, on fuch dubious tales, an argument against the most common and facred opinions of mankind\*.

His Lordfhip, in the next place fays with truth, that "the northern nations, to pro-"tect them from the cold, have more fat "than the fouthern."—But from this principle he draws a falfe conclusion, that "therefore the northern and fouthern na-"tions are of different races, adapted by "nature to their respective climates."— He ought to have drawn the contrary conclusion, that nature hath given such pliancy to the human conftitution as to

\* I have flown in the effay that this peculiarity has been falfely imputed to the natives of America; and that they are not, in this refpect, diftinguished, by nature, from the reft of mankind. They have a custom, founded on a capricious idea of beauty, of pulling out their hair with tweezers. And hasty and superficial travellers have been deceived, by the apparent shout the chin and body, into the imagination, that they are naturally destitute of this excress.

enable it to adapt itself to every clime. The goodnefs of the Creator appears in forming the whole world for man, and not confining him, like the inferior animals, to a bounded range, beyond which he cannot pafs either for the acquifition of fcience, or for the enlargement of his habitation. And the divine wildom is feen in mingling in the human frame fuch principles as always tend to counteract the hazards of a new fituation. Fat protects the vitals from the too piercing influence of cold \*. But this covering being too warm for fouthern regions, nature hath enabled the conftitution to throw it off by perfpiration. The physical cause of this effect ought to have been no fecret to a philofopher who treats of human nature. Not to mention the natural effects of the relaxation of heat; or the bracing of cold. on the nourishment of the body; it is fuf-

\* Almost all animals that run wild in the forest, grow fatter at the approach of winter; and they still augment their fat by being removed to a latitude farther north.

ficient to observe, that the profuse perspiration that takes place in fouthern latitudes, carries off the oily with the aqueous parts, and renders the constitution thin; but a frigid climate, by obstructing the evaporation of the oils, condenfes them in a coat of fat that contributes to preferve the warmth of the animal fystem. Experience verifies this influence of climate. The northern tribes, which iffued from the forefts of Germany, and overrun the fouthern provinces of the Roman Empire, no longer retain their original groffnefs, and their vaft fize. The conftitution of Spain, and of other countries in the fouth of Europe is thin; and the Europeans in general have become more thin by emigrating to America. Here is a double experiment, within the memory of hiftory, made on entire nations. Many fingle examples will occur to every man's observation. The argument, therefore, which this writer derives from the fatnefs of one nation, and the leannefs of another, is inconclusive for the purpose for which

he urges it, the proof of different species of men.

His next attempt is to prove that negroes are of a different species from whites. He fays, "their skin is more cool and "adapted to their fervid climate. For a "thermometer applied to the body of an "African, will not indicate the same degree of heat as when applied to the bo-"dy of an European."

The fact I will not difpute. But admitting it to be true with regard to the Europeans who travel to Africa, it is capable of explanation on the known principles of natural fcience. Perfpiration from the human body is analogous to the evaporation of fluids, which is one of the moft cooling proceffes in nature. It becomes a conductor to the internal heat, which it carries off as faft as it is excited, and thereby preferves the body in a moderate temperature. But when perfpiration is obftructed, the retained heat immediately raifes a fever in the fyftem,

The more profuse therefore the perspiration is, under the fame degree of external heat, the more temperate will be the warmth of the skin \*. In sweating, the skin is sensibly cooler than before the fweat begins to iffue from the pores. In the torrid zone the heat relaxing and opening the pores of the natives, will render both fenfible and infenfible perspiration in them more copious and constant, than in the natives of northern regions who remove thither. Their constitution not being yet perfectly accommodated to the climate, they do not perspire fo freely. Being more full of blood, and highly toned, they fuffer, in that fervid climate,

\* For a fimilar reafon likewife, among others, the furfaces of all fluids, preferve a greater coolnefs under the action of the direct rays of the fun than the furfaces of folid bodies. The action of the fun produces evaporation; and by this vapour the excited heat is conducted off, which, by remaining in folid bodies, renders them warmer than fluids. And this is equally true, whether we confider heat, with mo\_ dern philofophers, as an element, or with the old philofophers, as only an internal commotion of parts.

the additional heat of an habitual fever. If the fact however be, as his Lordship flates it, the experiment must have been made on the whites in Africa, before the conftitution was properly reduced to fuffer the intense heats of that region. For, in this climate, I can affirm from actual experiment, that the fkin of a negro is not cooler than that of a white perfon. I have applied the thermometer fucceffively to two perfons in my family of the fame fex, and nearly of the fame age, the one white, and the other black; and after making the trial in all respects as equal as possible, I have not been able at the end of half an hour to difcover any difference in the elevation of the mercury.

Some of his Lordship's following remarks and reasonings, I beg leave to treat a little more briefly.

" Is it poffible (he afks) to account for the low ftature, and little feet, and large head of the Efquimaux? or for the low

" ftature and ugly vifage of the Laplan-" ders, by the action of cold ?"

I have endeavoured to account for them from the action of cold in conjunction with the ftate of fociety.

"But the difference of latitude (he fays) between the Laplanders, and the Norwegians and Fins, is not fufficient to account for the difference of features."

I have already explained the reafon of this phenomenon. The temperate climates border upon eternal cold, and civilized on favage fociety, in every quarter of the globe. I have flown that the forces of thefe two powerful caufes combined, are fully adequate to account for thefe different effects.

His Lordship confesses, that " it has " been lately discovered by the Pere Hel, " an Hungarian, that the Laplanders were " originally Huns."

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Pere Hel has no doubt given authentic evidence of the fact, as appears by the conviction it has produced in his Lordfhip. But it is ftrange that it fhould not have occurred to this ingenious writer, that, from the fame Huns are defcended, likewife, fome of the most beautiful nations in Europe.

As an objection against the power of climate to change the complexion, he fays, "the Moguls and the fouthern Chinese "are white." If he means that they are not black, it is true: If he means that they are as white as the Europeans, it is false. If the Moguls are less discoloured than some other nations in the same latitude, I have before assigned the reason. The state of civilization to which they had arrived, previously to their taking possession of their present seats, enabled them to defend themselves with some success against the impressions of a new climate.

His Lordship adds, "Zaara is as hot as "Guinea, and Abyssinia is hotter than

" Monomotapa, and yet the inhabitants " of the former are not fo black as those " of the latter." His Lordship's historical, as well as phyfical, knowledge, needs a little emendation. Zaara is not fo hot as Guinea, nor is Abyffinia fo hot as Monomotapa. But if it were equally hot, there are other causes that produce a wide difference between the figure and complexion of those nations\*. The Abyfinians are civilized, the Monomotapans are favage. The Abyfinians derive their origin from Arabia; and civilization enables them to preferve their original features. The Monomotapans are evidently descended from the negroes of the equator, and their favage habits have continued the figure of their anceftors with little variation.

His Lordship proceeds, "there are many " inftances of races of people preferving " their original colour in climates very " different from their own." This is N

\* See page 130 of the Effay.

nearly true of civilized nations, the reafons of which have been already affigned. It is not, however, by any means true, in the extent in which he afferts it \*. He adds, " and there is not a fingle inftance to the " contrary." To his Lordship, the Portuguese of Congo might have been that inftance.

Another argument for the original diverfity of nations, on which fome reliance is placed in this preliminary difcourfe, is taken from the variety of difpofition, fpirit and genius exifting in different countries.

On this part of the fubject fome of his remarks are fo ridiculoufly weak, that it is difficult to treat them with a ferious face. Some of the oriental iflands he mentions whofe inhabitants are hostile, and others whose inhabitants are hostile to strangers, and

\* This has been fufficiently flown in the preceding Effay.

thence concludes a diversity of species. Kindnefs or averfion to strangers depends on fo many contingent caufes, that there cannot be a more equivocal foundation on which to reft the argument for different races. Nations that have been often exposed to hostile attacks, will be sufpicious of foreigners, and prone to repel them. Nations who have feldom feen the face of an enemy will be difpofed to receive them with kindnefs and hofpitality. As well might he have proved, that Europe in the tenth, and in the eighteenth century, was inhabited by different species of men, from the facility and fecurity with which a ftranger can now pafs through all its kingdoms, and the hazards to which he was then exposed. His Lordship goes on to confirm this argument by the example of fome nations who are full of courage and prompt to combat; and of others who hardly know the arts of war, or have confidence to meet an enemy in battle. With equal reafon I might conclude that the Greeks are not the fame species now as when they

N 2

gave birth to Agefilaus, Miltiades, and Alexander: That the Romans were not the fame fpecies under Cæfar when they conquered, as under Augustulus when they lost a world. And that, among the Jews, the Effenes, who were peaceful hermits in the fores, who were peaceful hermits in the fores, who were peaceful hermits in the argument is too abfurd to merit even this answer.

He fpeaks in the next place of the "cowardice of the American Indians," of whom he is manifefuly ignorant, as a criterion of a diffinct fpecies. He proves the character, becaufe they do not fight like the Europeans in an open field. An Indian philofopher, who fhould have examined the fubject as fuperficially as Lord Kames, would probably retort the charge of cowardice on the Europeans, becaufe they do not fuffer torture like the natives of America. Nations have different ideas of courage and honour, and they exert thefe principles in different ways. The military education of an Indian confifts in

learning to make war by ftealth, and to fuffer with heroic fortitude. The reafons of their conduct in both, arife naturally out of their ftate of fociety \*. No people have fuperior courage. They differ from civilized nations only in the manner of exercifing it.

Another example of difference of difpofition, which proves, in his Lordihip's opinion, diverfity of race, he gives in " the " Giagas, a nation of Africa, who bury all " their own children as foon as born, and " fupply their places with others ftolen " from the neighbouring tribes." On this tale I have made the proper comment already. If his Lordihip's opinion were not well known, we fhould fufpect that he reafoned in this weak manner only to expofe to ridicule his favourite doctrine of the difference of fpecies among men. Surely no devotee was ever guilty of more implicit faith than this unbeliever!

#### N 3

\* These reasons are well illustrated in Dr Robertfon's History of America.

The Japanefe, his Lordship esteems, on this subject, a valuable example. "The "Japanese (fays he) differ essentially from "the rest of mankind; because when "others would kill their enemies, they kill "themselves through spite." If 1 mistake not, a native of this self-murdering country might find many of the same tribe under London bridge.

The Japanefe furnish his Lordship with another example equally good. "They "never supplicate the gods, like other "men, in distress." That difference is certainly very striking, between them and a certain class of men who never supplicate their Maker at any other time. And yet I have known many Japanese, in my time, who have even curfed their Maker, in distress, as the author of their missortunes.

His Lordship acknowledges indeed that these arguments are not altogether conclufive; and therefore he proceeds to produce others that he esteems more perfect in their

kind. These I shall quote at full length, that I may diminish nothing of their force; and endeavour to answer in as few words as possible.

" But not to reft upon prefumptive evi-" dence, (fays he) few animals are more " affected than men generally are, not only " with change of feafons in the fame cli-" mate, but with change of weather in the " fame feason. Can fuch a being be fit-" ted for all climates equally? Impoffible " --- horfes and horned cattle fleep on the " bare ground wet or dry without harm, " and yet were not made for every cli-" mate: can a man then be made for " every climate, who is fo much more de-" licate, that he cannot fleep on wet ground " without the hazard of fome mortal dif-" eafe" ?- This is the argument. But it is refuted by the whole experience of the world. The human conftitution is the most delicate of all animal fystems : but it is alfo the most pliant, and capable of accommodating itfelf to the greatest varie-

ty of fituations. The lower animals have no defence against the evils of a new climate but the force of nature. The arts of human ingenuity furnish a defence to man against the dangers that furround him in every region. Accordingly we fee the fame nation pafs into all the climates of the earth-refide whole winters at the pole-plant colonies beneath the equator -pursue their commerce and establish their factories, in Africa, Afia, and America. They can equally live under a burning, and a frozen fky, and inhabit regions where those hardy animals could not exift .--- It is true, fuch great changes ought not to be hazarded fuddenly and without precaution. The greateft evils that have arisen from change of climate have been occafioned by the prefumption of health that refuses to use the necessary precautions, or the neglect of ignorance that knows not what precautions to ufe\*. But

\* Captain Cook has merited great praife for the fervice he has rendered to mankind, by improving the art of preferving health in long voyages, through the most distant climates.

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when changes are gradually, and prudently effected, habit foon accommodates the conftitution to a new fituation, and human ingenuity difcovers the means of guarding against the dangers of every feafon, and of every climate.

But " men (fays his Lordship) cannot " fleep on the wet ground without hazard " of fome mortal difeafe :" and therefore he concludes, that " they were not fit-" ted for all climates."-I fuppofe by men he means Europeans; becaufe the favages of America fleep on the ground without hazard, in every change of weather. Whether he admits the favage into the rank of men or not, he concludes, from this circumstance, that they are of a different fpecies from the civilized and polifhed people of Europe .- If his Lordship had vifited the forefts of America, he would have found in this, as well as in other instances, how little he was acquainted with human nature. He would have feen this argument, on which he refts as a capital

proof, totally overturned. He would have feen Europeans, or the defcendants of Europeans, become by habit, as capable as favages, of using the naked earth for their bed, and of enduring all the changes of an inclement fky. The Anglo-Americans on the frontiers of the states, who acquire their fustenance principally by hunting, enter with facility into all the habits of favages, and endure with equal hardiness the want of every convenience of polished fociety \*. So that this argument, like all

\* Not only the hunters, who have been long ufed to that mode of life, are able to lodge, without injury, on the wet ground, and under all feafons; but the large companies of men, women, and children, who are continually removing from the interior parts of the United States, to the weftern countries, for the fake of occupying new lands, encamp every night in the open air. They fleep on the earth, and frequently under heavy flowers of fnow or rain. They kindle a large fire, in the centre of their encampment, and fleep round it, extending their feet towards the pile. And many of them have affured me that, while their feet are warm, they fuffer little inconvenience from the vapour of the ground, or even from rain or fnow.

the reft, is not only inconclusive to his purpose, but militates against him.

" But the argument I chiefly rely on, " (fays his Lordship) is, that were all men " of one fpecies, there never could have " existed, without a miracle, different " kinds, fuch as exift at prefent. Giving " allowance for every fuppofable varia-" tion of climate, or of other causes, what " can follow but endless varieties among " individuals, as among tulips in a garden? " Inftead of which we find men of differ-" ent kinds; the individuals of each kind " remarkably uniform, and differing no " lefs remarkably from the individuals of " every other kind. Uniformity without " variation is the offspring of nature, ne-" ver of chance."

How often do philosophers mistake the eagerness and persuasion of their own minds, for the light of truth and reason!—The first part of this argument is no more than an ardent and zealous affertion. As it rests on no proof, it needs no resultation. And

I confidently appeal to the attentive and reflecting reader to judge, whether I have not affigned adequate caufes of this effect, without the fuppofed neceffity of recurring to miracle.

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The fecond part of this argument, on which fo much reliance is placed, contains a fine fimilitude; but that " fimilitude " operates directly against his principle. "What can follow, he afks, but endlefs " varieties among individuals, as among " tulips in a garden?"-I answer, that fuch varieties among individuals are found in every climate, in every region, in every family. But different climates must neceffarily produce varieties not among individuals but among kinds. For the fame climate or the fame ftate of fociety, operating uniformly as far as it extends, must produce a certain uniformity in the kind, and operating differently from every other climate, or every other flate of fociety. must render that kind different from all others .- " Uniformity, (fays he) is the " offspring of nature never of chance."

Could his Lordship mean to infinuate by this remark, that the operations of climate are the effect of chance, or that all its varieties are not governed by uniform and certain laws? Philosophy is assumed of fuch reasoning in one of her champions!

He adds, " there is another argument " that appears alfo to have weight, horfes " with refpect to fize, fhape and fpirit, dif-" fer widely in different climates. But " let a male and female of whatever cli-" mate, be carried to a country where " horfes are in perfection, their progeny " will improve gradually, and will ac-" quire, in time, the perfection of their " kind. Is not this a proof that all horfes " are of one kind?"

His Lordship hardly needs an opponent, he reasons so strongly against himself. The species of men, no less than that of horses, changes its appearance by every removal to a new climate, and by every alteration of the state of society. The prefent nations of Europe are an example in

the way of improvement; the Europeans which he acknowledges have degenerated by removing to Africa, Afia, and South America, are an example in the contrary progreffion. Carry the natives of Africa or America to Europe, and mix the breed, as you do that of horfes, and they will acquire in time, the high perfection of the human form which is feen in that polifhed country. Men will acquire it in the fame number of defcents as thefe animals. No, fays his Lordfhip, "a mullatto will " be the refult of the union of a white " with a black \*."

That is true in the first descent, but not in the fourth or fifth; in which, by a proper mixture of races, and by the habits of civilized life, the black tinge may be entirely effaced.

\* The fame thing, his Lordship might have remarked, takes places in horses as in the human race. The properties of two different breeds will, in the first descent, be equally blended in the offspring.

There is, at prefent, in the College of New-Jerfey, a ftriking example of a fimilar nature, in two young gentlemen of one of the first families in the state of Virginia, who are descended, in the female line, from the Indian Emperor Powhatan. They are in the fourth defcent from the Princefs Pocahuntis, a high-fpirited and generous woman. And though all their anceftors in Virginia have retained fome characters, more or less obvious, of their maternal race, yet, in these young gentlemen, they feem to be entirely effaced. The hair and complexion, of one of them in particular, is very fair, and the countenance and figure of the face is perfectly Anglo-American. He retains only the dark and vivid eye that has diffinguished the whole family, and rendered fome of them remarkably beautiful. His Lordship's argument, therefore, if it be good, is a clear proof against himself, that all men are of one kind.

He concludes, however, from the preceding remarks which he has made, " that

" mankind muft have been originally crea-" ted of different fpecies, and fitted for " the different climates in which they " were placed, whatever change may have " happened, in later times, by war or " commerce."

Let us ask, why fitted for the different climates in which they were placed ?---The proper answer is, because they could not exift in other climates; or, becaufe they attain the greatest perfection of their nature only in their own. Both thefe reafons, in the present cafe, are inconfistent with experience. Let us remember " the " changes that have been produced by war " and by commerce." Nations have tranfplanted themfelves to other climes; yet they continue to exift and flourish-foreigners have become affimilated to the natives. Inflead of attaining, in their primitive abodes, the perfection of their nature, they have improved by migrating tonew habitations. The Goths, the Moguls, the Africans, have become infinitely meliorated by changing those skies, for which

it is faid they were peculiarly fitted by nature. They must therefore have defeated, or improved upon, the intentions of their Creator; or, at least, have shown the precautions attributed to Him, by this author, to have been unneceffary. Lord Kames, having endeavoured to demonstrate, in the manner we have feen, the existence of original varieties among mankind, proceeds to the conclusion in an equal stream of cogent reafoning. " There is a remarkable " fact (fays his Lordship) which confirms " the foregoing conjectures : as far back as " history goes, the earth was inhabited by " favages divided into many fmall tribes, " each tribe having a language peculiar to " itfelf. Is it not natural then to fuppofe " that thefe original tribes were different " races of men placed in proper climates " and left to form their own language? " But this opinion we are not permitted " to adopt, being taught a different leffon " by revelation. Though we cannot doubt " of the authority of Mofes, yet his ac-" count of the creation is not a little

" puzzling. According to that account " all men must have spoken the same lan-" guage, viz. that of our first parents. But " what of all feems the most contradictory " to that account is the favage state. Adam, " as Mofes informs us, was endued by his " Maker, with an eminent degree of " knowledge; and he certainly must have " been an excellent preceptor to his chil-66 dren, and their progeny, among whom 66 he lived feveral generations. Whence 66 then the degeneracy of all men to the favage state? To account for that dif-\$5 66 mal catastrophe mankind must have fuffered fome terrible convultion. That 66 terrible convultion is revealed to us in 66 66 the hiftory of the tower of Babel. By 66 confounding the language of all men, 66 and fcattering them abroad upon the " face of the earth, they were rendered " favages. And to harden them for their " new habitations, it was necessary that " they should be divided into different " kinds, fitted for different climates. Without an immediate change of bodily con-" flitution, the builders of Babel could not

" poffibly have fubfifted, in the burning " region of Guinea, or in the frozen re-" gion of Lapland. If the common lan-" guage of men had not been confound-" ed upon their attempting the tower of " Babel, I affirm that there never could " have been but one language. Antiqua-" ries conftantly suppose a migrating spi-" rit in the original inhabitants of the " earth, not only without evidence, but " contrary to all probability. Men never " defert their connexions nor their coun-" try without neceffity. Fear of enemies, " and of wild beafts as well as the attrac-" tion of fociety, are more than fufficient " to reftrain them from wandering; not " to mention that favages are peculiarly " fond of their natal foil."

When ignorance begins to fneer at revelation, and at opinions held facred by mankind, it is too contemptible to provoke resentment, or to merit a retaliation in kind .- When a philosopher descends to the difhonest task, the most proper treat-0 2

ment is to hold out to the world his weaknefs and miftake. Mankind will heap upon him the contempt he deferves for intermeddling with a fubject he does not underftand. Abfurdity and error are at no time fo defpicable as when, in a ridiculous confidence of fhrewdnefs and fagacity, they affume airs of fuperiority and fneer. It would be tedious to remark all the weakneffes of the paragraph I have juft quoted. One I will point out, and then I fhall fhow, that the whole foundation of this reafoning is falfe, and indicates an utter ignorance of human nature in that ftate of fociety of which he fpeaks.

"Without an immediate change of bo-"dily conftitution (fays he) the builders "of Babel could not poffibly have fubfift-"ed in the burning region of Guinea, or "the frozen region of Lapland." Yet experience teaches us that mankind can exift in every climate. The Europeans, to mention no others, have armies, or colonies, in all the regions of the globe. And if his Lordship believes that the intenfity

of a frozen, or a torrid climate, was fufficient to have deftroyed the builders of Babel, he fhould have no objection furely, after fuch a declaration, to acknowledge that they might have altered the figure, or changed the complexion. Yet his whole object is to combat this principle. He allows the greater, he denies the lefs effect. But errors, or contradictions of this kind, Lord Kames, in his zeal againft an obnoxious doctrine, eafily overlooks.

I proposed in the next place to show, that the whole foundation on which the reasoning in this paragraph refts is false, and only proves his ignorance of human nature in that state of society of which he speaks.—It refts on two principles, 1/t, That the children of Adam or Noah could never have become favage if these fathers of the race were the wise men which Mofes represents them to be;—and 2dly, That there never could have existed a diversity of languages. On the other hand, I doubt not of being able to prove that the favage

condition of the greater part of the world was the neceffary confequence of one family, and of the flate of the earth as Mofes reprefents it immediately after the deluge.—And that out of the favage flate, diverfity of languages would naturally arife.

I am not now going to explain the hiftory of Babel, or to unfold or defend the miracles recorded in the facred fcriptures. I take the matter on his Lordship's ground, who, no doubt, most devoutly and fervently difbelieves all miraculous interpofition of the Deity, and show that, in the nature of things, man would become favage, and language would become divided.

Man defcended after the deluge into an immenfe wildernefs, in which the beafts would naturally multiply infinitely fafter than the human race. Agriculture would probably, from habit and inclination, be the employment of Noah, and his immediate defcendants; and with them would commence the civilized flate which can

be traced without interruption, from the countries which they occupied, and the period in which they lived, down to our country, and to the prefent times .- But agriculture furnishes too flow and laborious a subfistence to be grateful to all men. Many, in the midft of a wilderness filled with beafts, would be ready to forfake the toils of clearing and cultivating the ground, and to feek their provision from the chace, which has been ever a favourite exercife of mankind, particularly in rude ages. Hunting would foon fpread them over extensive regions, and disperse them widely from one another. Single families, or collections of a few families, feated in feparate districts of a country almost boundlefs, would become independent tribes, and the mode of procuring fubfiftence would render them favage. His Lordship fuppofes that there is an invincible objection against fuch dispersion, and fuch manners, in the example and advice of a venerable anceftor, and in the focial difpolition of mankind .- The example and advice of

Noah and his fons would doubtlefs have great influence on that civilized people, which would naturally grow up round their immediate habitation. But how fhould they influence their remote defcendants who were ranging the forefts at the distance of an hundred or a thousand leagues? To answer this question, he confidently pronounces that mankind would always have been within the reach of this example, becaufe they never would have feparated from one another, and from the pleasures of improved fociety .-. " Men (fays he) never defert their connexions, " nor their country, without neceffity .----" Fear of enemies, and of wild beafts, as " well as the attractions of fociety, are " more than sufficient to restrain them from " wandering : not to mention that favages " are peculiarly fond of their natal foil."

Thefe ideas are derived from civilized fociety, and are not applicable to favage life. 'Tis ridiculous to talk of the fear of wild beafts to men whofe diversion it is to purfue and flay them;—and not much

lefs abfurd is it to talk of the attractions of fociety, and of attachments to a natal foil, to people in a wildernefs, to whom migration is a habit-to whom every fpot of ground is equal where they can find game-and who feel the charms of the chace more fenfibly than the charms of fociety. What is the pleafure of fociety in that rude state?-Destitute of sentiment, or conversation, it is little more than the pleafure that dumb animals feel at the approach of other animals of the fame fpecies. The chace, which to them is productive of higher and ftronger enjoyments, eafily breaks the feeble ties of fuch fociety; and hunters, like beafts of prey, delight in folitudes and deferts .- Men in fuch a state migrate through caprice, or through curiofity, or for the convenience of hunting .- The influence of extensive lands lying in common, and ready to be occupied by the first comer, is extremely visible on the inhabitants of these United States. Their fathers came from Europe with all those fixed habits, and those tendencies to local attachments which can rea-

fonably be imputed to any people. They took possession of a boundless forest, which had a fpeedy and an aftonishing effect on their manners. The Anglo-Americans difcover comparatively little attachment to a native foil. No hereditary poffession, no objects of antiquity feize the imagination, and fix it to a certain fpot. The people migrate without reluctance to the greateft distances-they change their habitations as foon as they become ftraitened in their quarters-and forfake their friends, and the place of their nativity, for apparently fmall conveniences. This is more the cafe as you pass from the cultivated lands near the ocean, towards the western frontiers. In proportion as the citizens of the states approach the vicinity of the Indian tribes, fimilarity of fituation produces alfo a great approximation of manners. If his Lordship had feen America, he would have feen men forever migrating from the midft of fociety to uncultivated deferts-he would have often feen them forfake the constraints of civilization, for the independence, and the charms of a ftate approach-

ing to favage-he would have feen the frontiers of all the United States filled with the descendants of Europeans, who have, in a great meafure, adopted the manners of the native Indians, along with their mode of procuring fubfiftence-he would have feen these people, as fociety advances upon them from the cities, and the feacoaft, retreating before it into the wildernefs-he would have feen men decline the labours of agriculture as a toil, and prefer the fatigues of hunting to all other pleafures-he would have feen that mankind often find charms in the indolence and independence of the favage flate fuperior to those that result from the refinements and attractions of civil fociety, which must be purchased with labour, and held by fubordination-he would have feen that wanderers have no attachment, as he fuppofes, to their natal foil-he would have feen multitudes of the people of these United States, change their habitations without regrethe would have feen the Indians, either fingly, or in companies, travel for many moons fucceffively, to explore other forefts,

and to feek for other rivers-he might have feen whole tribes rife from their feats at once, and carrying with them the bones of their fathers, feek new habitations at the distance of an hundred or two hundred leagues .- But his Lordship has not feen them, and he fpeaks of the favage state without understanding it, and of human nature, in the beginning of time, without knowing how it would operate then, or how it has operated, in fimilar fituations, in later periods. Like many other philosophers, he judges and reasons only from what he has feen in a state of fociety highly improved; and is led to form wrong conclusions from his own habits and preposseffions. On his principles, a favage state could never have existed, on the fuppolition of many races of men, more than of one. Fear of wild beafts, and the attractions of fociety would have held each race together and prevented their difpersion. Every art of agriculture would have been tried, before they would have extended their habitations into the dangerous wilderness. A civilized communi-

ty would have arifen round ther first habitations. And when they fhould have been compelled by neceffity to enlarge their limits, they would have done it 'in fociety. The foreft would have fallen before them as they advanced; and fear and the focial principle would have equally contributed to reftrain them from the hazards and the difperfion confequent upon the fpirit of the chace. The world, inftead of being filled with numerous tribes of favages, would have every where prefented to us civilized and polifhed nations. His Lordship, on this subject, for ever reasons against himsef. He means to combat the doctrine of one race by the existence of the favage state; which yet, is a neceffary confequence of that doctrine, and would be certainly precluded on his own principles.

His Lordship's next error confists in afferting that, "on the supposition of one "race, there never could have existed a "diversity of languages." This error is the confequence of the preceding.

Both principles are intimately connected together. Similarity of language would naturally have arifen out of univerfal civilization, continued down from the original of the race. Diverfity of language neceffarily fprings out of the favage state. The favage state has few wants, and furniss few ideas that require terms to express them. The habits of folitude and filence incline a favage rarely to speak. When he speaks it is chiefly in figures, and the fame terms are used for different ideas\*.

\* Savages fpeak fo much by figure, and even by gefture, that it greatly contracts the limits of their language. They have no adjectives, no particles, no abftract terms, no fingular denominations. They have no parts of fpeech but the fubftantive and the verb. Their verbs are confined to a very few ftates and actions of animals; and perhaps fome other objects of nature that are most familiar. Their fubftantives confift of a few general names of animals, of vegetables, and of fome of the most obvious parts of the inanimate world, fuch as rocks, rivers, mountains. When they would express a quality, they do it figuratively by applying the name of one fensible object to another. A fwift man is a deer; a wife or an artful man is a fox; a ftrong, a furious, or a cou-

Speech must, therefore, be extremely narrow, in this rude condition of men. It must, likewife, be extremely various. Every new region, and every new climate, will present different ideas, and create different wants, that will naturally be expressed by various terms. Hence will originate great diversity in the first elements of speech among all favage nations. If a few common principles should be handed down from the original family; yet thefe, in time, would be changed by the ufual flux of language. Tongues would become as various as the tribes of men. Speech being, therefore, in the first ages, both extremely narrow, and extremely diversified, these rude people would begin their progress towards improvement, with few, or with no elements in common. And in

rageous man, is a bear. Thus by applying the fame term to fignify feveral ideas, by having but two parts of fpeech, and thefe derived from few objects, and by using gestures frequently to supply the place of the verb, speech is reduced, among them, to a narrow compase.

the infinite multitude of words which civilization and refinement add to language; no two nations, perhaps, have ever agreed upon the fame founds to reprefent the fame ideas. Superior refinement, indeed, may induce imitation, conquests may impofe a language, and extension of empires may melt down different nations, and different dialects, into one mass. But independent tribes naturally give rife to diverfity of tongues. Thus, perhaps, the fpeech of men was at first one-it became gradually divided into a multitude of tongues -and the progress of civilization, and the mixing of nations by conquest or by commerce, tends to bring it back again towards one flandard .--- His Lordfhip fails in every proof.-And this last argument, which he deemed among the ftrongeft, against the history of the scriptures, and the common origin of mankind, militates like the reft against himself, and confirms the doctrine that he oppofes.

Such is the attack which this celebrated philosopher has made on the doctrine of

one race. In all the writings of this author, there is not another example of fo much weak and inconclusive reasoning. This ought in justice to be imputed to the cause, and not to the writer. His talents are universally acknowledged. It was for that reason I chose to make these strictures on him, rather than on an author of inferior name. He has probably shown the utmost force of that cause which he has undertaken to defend. If he has failed, it is only because it is incapable of defence. For, to him I may apply the lines which, on another subject, he applies to Dr Robertson.

Defendi possent, etiam hac defensa fuissent.

### FINIS.

