An essay on the causes of the variety of complexion and figure in the human species : to which are added strictures on Lord Kaims's [sic] discourse, on the original diversity of mankind / by the Reverend Samuel Stanhope Smith, D.D. Vice-president, and professor of moral philosophy in the College of New-Jersey ; and member of the American Philosophical Society, held at Philadelphia for promoting useful knowledge.

#### Contributors

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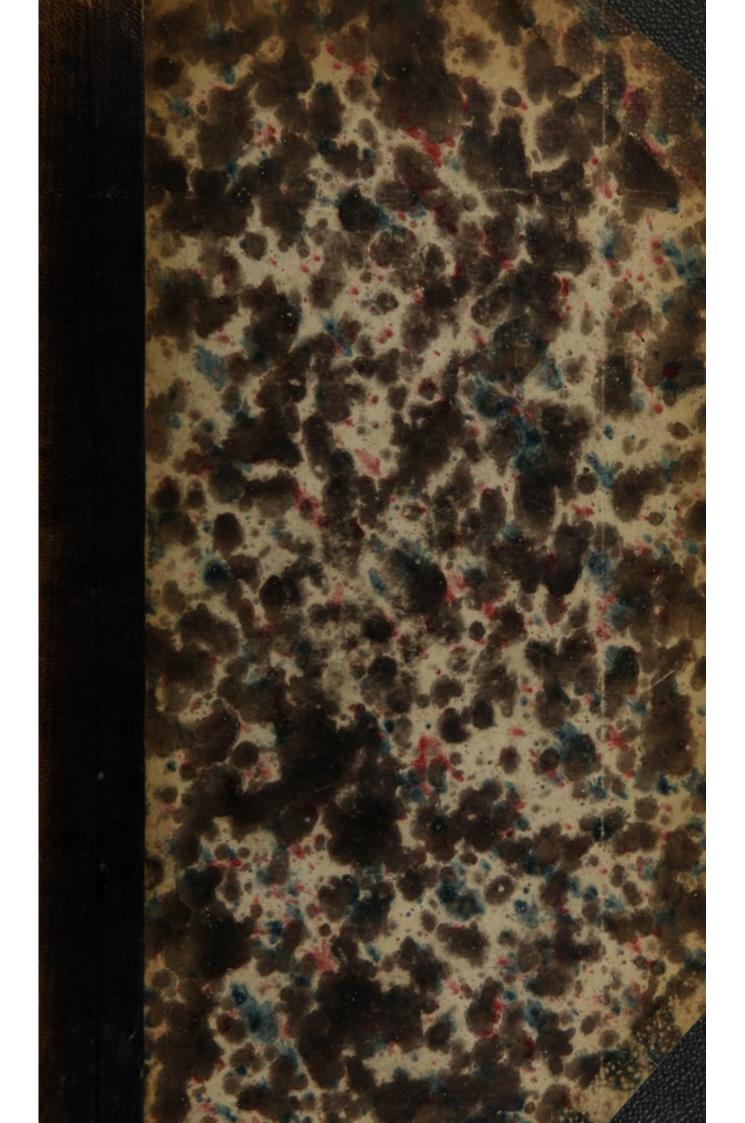
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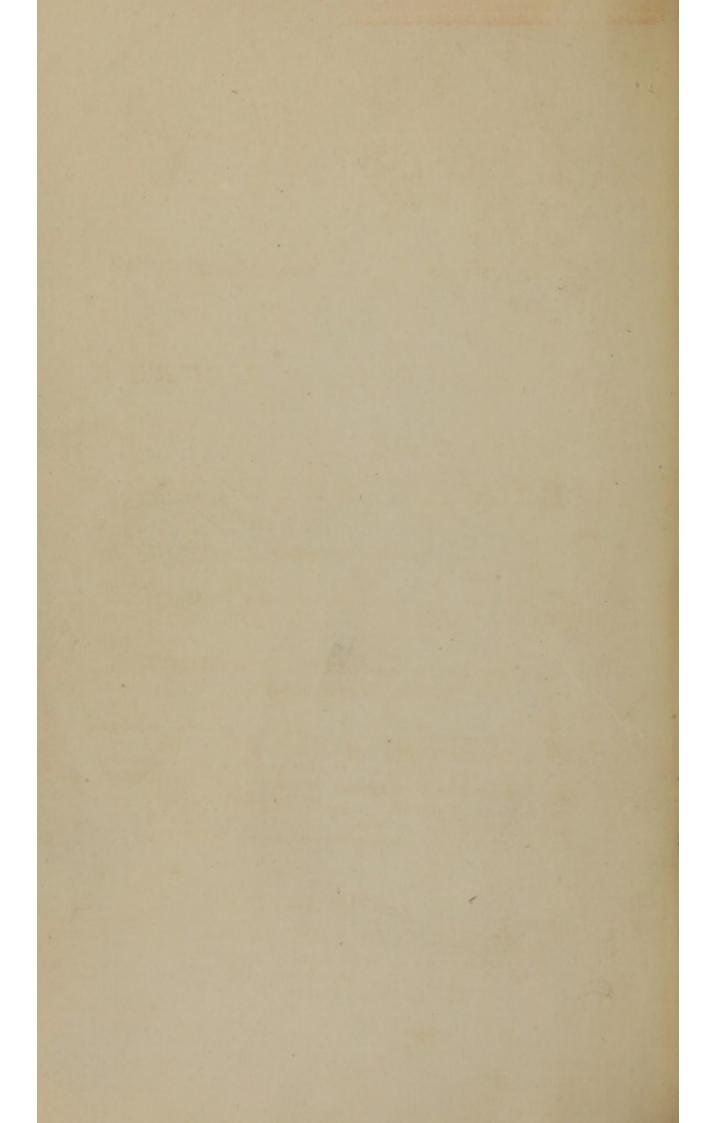


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# ESSAY

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ONTHE

CAUSES OF THE VARIETY

OF

COMPLEXION AND FIGURE

IN THE

# HUMAN SPECIES.

TO WHICH ARE ADDED

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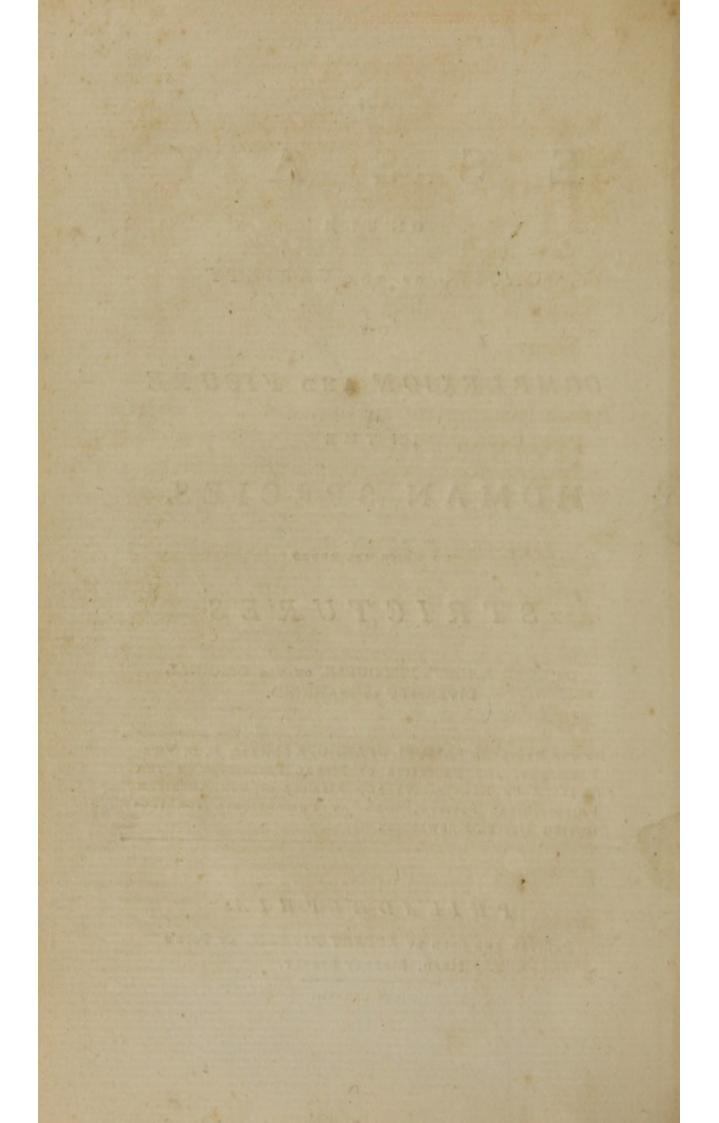
ON LORD KAIMS'S DISCOURSE, ON THE ORIGINAL DIVERSITY OF MANKIND.

BY THE REVEREND SAMUEL STANHOPE SMITH, D. D. VICE-PRESIDENT, AND PROFESSOR OF MORAL PHILOSOPHY IN THE COLLEGE OF NEW-JERSEY; AND MEMBER OF THE AMERICAN PHILOSOPHICAL SOCIETY, HELD AT PHILADELPHIA FOR PRO-MOTING USEFUL KNOWLEDGE.

#### PHILADELPHIA:

PRINTED AND SOLD BY ROBERT AITKEN, AT POPE'S HEAD, MARKET STREET.

M.DCC.LXXXVII.



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 PHILOSOPHICAL SOCIETY, ON FRIDAY EVENING, THE 28th OF FEBRU-ARY, 1787.

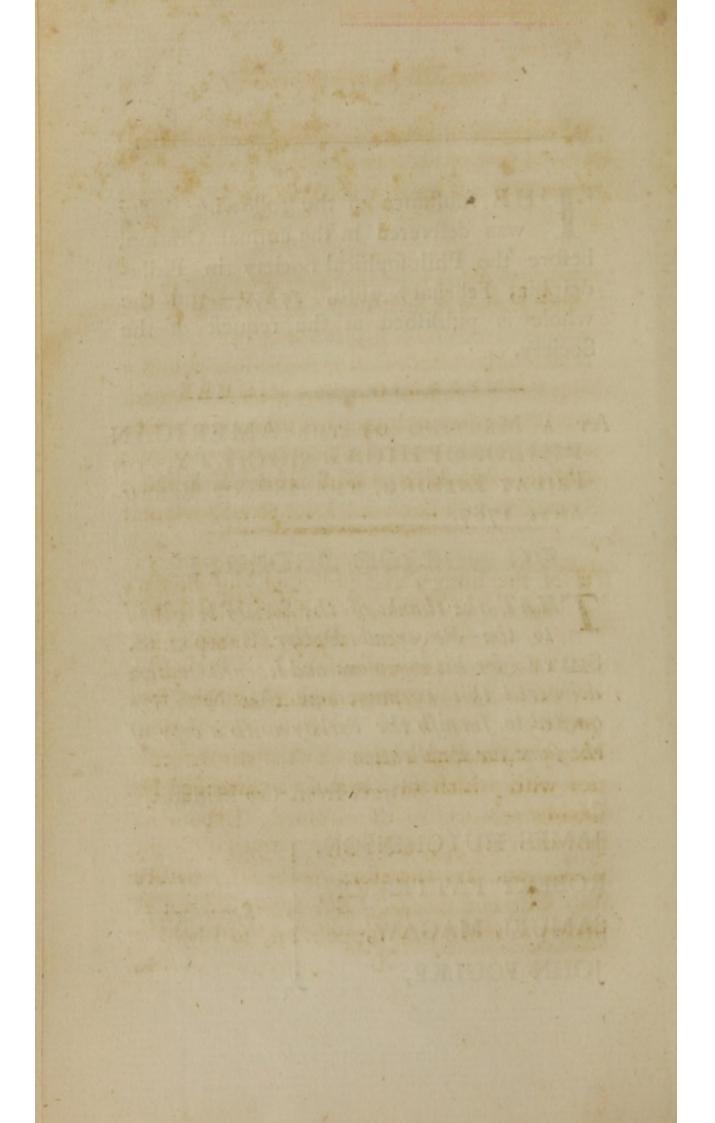
## DR HOTIDR DRDERED,

THAT the thanks of the Society be given to the Reverend Doctor 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,

Secretaries.



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CAUSES OF THE VARIETY.

COMPLEXION AND FIGURE

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#### HUMAN SPECIES.

N the hiftory and philofophy of human nature, one of the firft objects that ftrikes an obferver is the variety of complexion and of figure among mankind. To affign the caufes of this phænomenon has been frequently a fubject of curious fpeculation. Many philofophers have refolved the difficulties with which this inquiry is attended by having recourfe to the arbitrary hypothefis that men are originally 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

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to be unphilosophical to recur to hypothesis, when the whole effect may, on proper inveftigation, be accounted for by the ordinary laws of nature\*.

On this difcuffion I am now about to enter; and thall 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 me to believe, will acquire additional evidence from time and observation.

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

I. Of CLIMATE.

2

II. Of the STATE of SociETY.

In treating this fubject, I fhall not efpouse any peculiar fystem of medical principles which,

\* It is no fmall objection to this hypothefis, that these scan never be ascertained. 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 so mixed by the migrations of mankind, that the properties of each species can never be determined. Besides, this supposition unavoidably confounds the whole philosophy of human nature.—See sonsimption of this estay.

which, in the continual revolutions of opinion, might be in hazard of being afterwards difcarded. I fhall, 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 of phyfical caufesthat 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 deftroy 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 caufes, acting conftantly, and long continued, will neceffarily create great and confpicuous differences among mankind.

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

4

In tracing the globe from the pole to the equator, we observe 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 in white. Afterwards fucceed, the brown, the olive, the tawny, and at length the black, as you proceed to the line. The fame diftance from the fun, however, does not, in every region, indicate the fame temperature of climate. Some fecondary caufes 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 flate 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

below them warmer, and the countries 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 Perfia 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 alfo receives fome difference from the nature of the foil; and fome from the degree of cultivation-Sand is fufceptible 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 constant action of the sun. 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

6

Many other circumftances might be enumerated which modify the influence of climate. These will be fufficient to give a general idea of the subject. And by the intelligent reader they may be easily extended, and applied to the state of particular countries.

From the preceding obfervations we derive this conclusion, that there is a general ratio of heat and cold, which forms what we call climate, and a general refemblance of nations, according to the latitude from the equator; fubject however, to innumerable varieties from the infinite combinations of the circumftances I have fuggested. After having exhibited the general effect, I shall take up the capital deviations from it that are found in the world, and endeavour to shew 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 fkin, the cold of winter chafes it, and excites a fanguine colour. Thefe alternate effects in the temperate zone tend in fome degree to correct one another. But when heat or cold predominates in any region,

on, it impresses, in the fame proportion, a permanent and characteristical complexion. The degree in which it predominates may be confidered as a conftant caufe to the action of which the human body is exposed. This caufe will affect the nerves by tention or relaxation, by dilatation or contraction-It will affect the fluids by increasing or lessening the perspiration, 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 visible 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 conftitution, and gives fome tendency, in valetudinarians especially, to a bilious hue. These 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 adapted be

8

be stiled 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 fuccession of ages. They become, however, fixed at last. 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 impress it with a permanent character. The fanguine countenance will, for this reason, be perpetual in the highest latitudes of the temperate zone; and we shall forever 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 ftate 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

adapted to their respective zones, it furely places his benevolence in a more advantageous light to fay, he has given to human nature the power of accommodating 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 otherwife 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 forever changing their habitations by conquest or by commerce. And we find them in all climates not only able to endure the change, but fo assimilated by time, that we cannot fay with certainty whole anceftor was the native of the clime, and whole the intruding foreigner.

I will here propose a few principles on the change of colour, that are not liable to difpute, and that may tend to shed some light on this subject.

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

and eafily fusceptible of impression from external causes, is, from its structure, among the least mutable parts of the body\*. Change of complexion does for this reafon continue long, from whatever caufe it may have arifen. And if the caufes of colour have deeply penetrated the texture of the fkin, it becomes perpetual. Figures therefore, that are stained with paints inferted by punctures made in its fubstance, can never be effaced . An ardent fun is able intirely to 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 fubftance. Such an operation not only changes its colour, but increases 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 resist the action of the exciting

\* Anatomifts inform us that, like the bones, it has few or no veffels, and therefore is not liable to those changes of augmentation or diminution, and continual alteration of parts, to which the flesh, the blood, and whole vafcular fystem is fubject.

† It is well known what a length of time is required to efface the freckles contracted in a fair fkin by the exposure 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, observed by fome writers that colour may be justly confidered as an universal freckle.

10

citing 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 intire 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. 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 conftancy of the climate<sup>†</sup>.

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 fhed

\* 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.

+ If the force of fire be fufficient at a given diffance, 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,

fhed 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 inftances, we fee that relaxation, whether it be caufed by the vapours of stagnant waters, or by fedentary occupations, or by lofs of blood, or by indolence, fubjects men to diforders of the bile, and difcolours the fkin. 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 ufually attacked by dangerous diforders that leave the blood impoverished, and shed a yellow appearance over the fkin. These diforders are perhaps the efforts of nature in breaking down and changing the conflitution, 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<sup>†</sup>. On this dark ground

\* See Dr. M'Clurg on the bile.

† Phyficians differ in their opinions concerning the flate of the bile in warm countries. Some fuppofe 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

12

ground the hue of the climate becomes, at length, deeply and permanently imprefied.

On the fubject of the phyfical caufes of colour I fhall reduce my principles to a few fhort propositions derived chiefly from experience and obfervation, and placed in fuch connexion 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.

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

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.

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

both causes co-operate, the effect is much greater, and the colour much deeper\*.

4. It is difcovered by anatomifts that the fkin confifts 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 membrane filled with a mucous fubftance.

5. This fubftance, whatever it be, is altered in its appearance and colour with every change of the conftitution—As appears 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 flate and flructure of the body, and in the quantity of the

\* 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.

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 ftagnant, or nearly in a ftagnant ftate, tends in its colour towards black.

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

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 scars, 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<sup>†</sup>; and in this flate, being

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

<sup>\*</sup> 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 reflexion will afterwards be further illuftrated.

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 atmofphere.

11. From all the preceding principles taken together it appears that the complexion 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 fkin.

12. The vapours of flagnant waters with which uncultivated regions abound; all great fatigues and hardships; poverty and nastines, 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 nourishment, 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 poffefs those conveniencies that, by opening the pores, and

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 by the dark coloured bile; which, in that flate, becomes the more dark, because the obstruction of the pores preferves it longer in a fixed flate in the skin. Hence, perhaps, the deep Lapponian complexion which has been esteemed a phænomenon so difficult to be explained.

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

Such are the obfervations which I propole 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 afcertain-D ed,

\* Extreme cold is followed by an effect fimilar to that of extreme heat. It relaxes the confficution by overftraining it, and augments the bile. This, togethe: with the fatigues and hardfhips 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 flate of fociety.

<sup>†</sup> Cold air is known to contain a confiderable quantity of nitre; and this ingredient is known to be favourable to a clear and ruddy complexion.

817

ed, 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 fuggefted, and which will afterwards be farther explained, you 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 circumftances, 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

gress of this discourse, to point out their causes\*.

The power of climate, I have faid, appears from obvious and undeniable events 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 diffinguished 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 eaft, 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<sup>†</sup>; 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

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

+ The fair Circafian has become proverbial of the women of a neighbouring nation.

as black as the Ethiopians. In these ancient nations, colour holds a regular progression with the latitude from the equator. The examples of the Chinese and the Arabians are the more decifive on this fubject 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. Defcended from one flock, prohibited by their most facred inftitutions 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 fhewn in the inhabitants of thefe United States. Sprung within a few years from the Britifh, the Irifh and the German nations

\* Buffon's nat. hift. vol. 3d.

20

nations who are the fairest people in Europe, they are now fpread over this continent from the thirty first to the forty fifth degree of northern latitude. And, notwithstanding the temperature of the climate-notwithstanding the fhortness of the period fince their first eftablishment in America-notwithstanding the continual mixture of Europeans with those born in the country-notwithstanding previous ideas of beauty that prompted them to guard against the influence of the climate -and notwithftanding the flate of high civilization in which they took poffeffion 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 arives upon our fhore. A degree of fallownefs is visible to him which, through familiarity, or the want of a general flandard of comparifon, hardly attracts our obfervation. This effect is more obvious in the middle, and still more, in the fouthern, than in the northern states. 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 claffes of people, than in families of eafy fortune who poffefs the means, and

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 eafily 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 favage flate they would be perfectly marked, in time, with the fame colour. Not only their complexion, 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

22

limbs appear to have a difproportioned length to the body, and the fhape of the fkeleton is evidently difcernible through the fkin\*. 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 fmaller differences than diftinguish thefe from their European anceftors<sup>†</sup>. Examples taken from the natives

\* The dark colour of the natives of the Weft-India Iflands is well known to approach very near a dark copper. The defcendents of the Spaniards in fouth America are already become copper coloured: [fee phil, tranf. of roy. foc. Lond. Nº 476 fect. 4.] The Portuguese of Mitomba in Sierra Leona on the coaft of Africa have, by intermarrying with the natives, and by adopting their manners, become, in a few generations, perfectly affimilated in afpect, figure and complexion, [fee treatife on the trade of Great Britain to Africa, by an African merchant.] And lord Kaims, who cannot be fufpected of partiality on this fubject, fays of another Portuguese settlement on the coast of Congo, that the descendents of those polifhed Europeans, have become, both in their perfons and their manners, more like beafts than like men. [fee fketches of man, prel. difc.] These examples tend to strengthen the inference drawn from the changes that have happened in the Anglo-Americans. And they flew how cafly climate would afimilate foreigners to natives in the courfe of time, if they would adopt the fame manners, and equally expose themfelves to its influence.

<sup>†</sup> 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 accomodated to the climate, it will by degrees assume 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

of

of the United States are the stronger 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 fuperficially on the fubject, feem more flow in their progrefs than is confiftent 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 national changes, whether moral or phyfical, advance by imperceptible gradations, and are not accomplished but in a feries of ages. Ten centuries were requisite to polish the manners of Europe. It is not improbable that an equal fpace of time may be neceffary to form the countenance, and the figure of the body-to receive all the infenfible and infinite impreffions of climate-to combine these with the effects that result from the ftate of fociety-to blend both along with perfonal peculiarities-and by the innumerable

colour or the features. Even if they were thrown back again into the favage flate 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.

24

ble unions of families to melt down the whole into one uniform and national countenance\*. It is even questionable whether, amidst eternal migrations and conquefts, any nation in Europe has yet received the full effects of thefe caufes. China and Arabia are perhaps the only civilized countries in the world in which they have attained their utmost operation; becaufe 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, whole inhabitants are of the darkeft 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 species, 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 E

\* In favage life men more fpeedily receive the characteriftic features of the climate, and of the flate 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 defenceles to fuffer its full force at once.

and an interesting example of the powerful influence of climate\*.

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.

It would be impoffible, in the compafs 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 conflitution, or of the globe, or of the powers of nature is, perhaps,

\* The reader will pleafe to keep in mind that in remarking on the changes that have paffed on the Anglo-Americans, I have in view the mais 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 these 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 these 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.

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 juft 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 conftitute a diffinct fpecies.

I shall, therefore, confine my observations at present, 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 fkin, derive its nourifhment and its colour from the fame fubftance which there contributes to form the complexion. Every gradation of colour in the fkin, from the brown to the perfectly black, is accompanied with proportionable fhades in the hair. The pale red, or fandy complexion, on the other hand, is ufually attended with rednefs of the hair. Between thefe two points is found almoft every

every other colour of this excrefcence, 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, feems 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, 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 house, it is commonly to the opposite 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 instance, is certain; we may, in the former, reasonably conclude that, the flate of nerves or fluids which contributes to produce one or other of these effects in a fingle family, may

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\* 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.

be the general tendency of a particular climate. In this example, at leaft, we fee that the human conflictution is capable of being moulded, by phyfical caufes, into many of the varieties that diftinguifh mankind. It is contrary therefore to found philofophy, which never affigns different caufes, without neceffity, for fimilar events, to have recourfe, for explaining these varieties, to the hypothesis of feveral original fpecies<sup>\*</sup>.

Climate poffeffes great and evident influence on the hair not only of men, but of all other animals. The changes which this excrefcence undergoes in them is at least equal to what it fuffers in man. If, in one cafe, thefe transmutations are acknowledged to be confistent with identity of kind, they ought not, in the other, to be effecemed criterions of diffinct

\* If we fuppofe different fpecies to have been created, how fhall 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 species of men made capable of being blended together, contrary to the nature of other animals, fo that they should never be discriminated, so rendering the end unneceffary for which they were supposed to be created ? If we have reason, from the varieties that exist in the same family, or in the fame nation, to conclude that the Danes, the French, the Turks, and people even more remote are of one species, have we not the fame reason to conclude that the nations beyond them, and who do not differ from the last by more confpicuous diffinctions, than the last differ from the first, are also of the fame species. By purfuing this progression we shall find hut one species from the equator to the pole.

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 coarfe 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 denfity of the hair is augmented in proportion to the latitude of the country. The Canadian and Ruffian 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 eircle; and in high northern latitudes, black foxes are most frequently found. Similar effects of climate are difcernible on mankind. Almost every nation is diffinguished by fome peculiar quality of this excrefcence. 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

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 straight. The straightness of the hair may arise from the relaxation of the climate, or from the humidity of an uncultivated region. But whatever be the cause, the Anglo-Americans already feel its influence. And curled locks fo frequent among their ancestors are rare in the United States\*.

Black is the moft ufual colour of the human hair, becaufe 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

\* 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. They will necessarily produce a great change in the climate, and consequently in the human constitution.

32

different families; or to the migrations or conquests of different nations. England is, perhaps for this reason, the country in which is seen the greatest variety in the colour of the hair.

But the form of this excreicence 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.

This peculiarity has been urged as a decifive character of a diffinct fpecies with more affurance than became philofophers but tolerably acquainted with the operations of nature. The fparfenefs of the African hair is analogous to the effect which a warm climate has been fhewn to have on other animals. Cold, by obftructing the perfpiration tends to throw out the perfpirable matter accumulated at the fkin 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 renders the hair liable

able 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 fubstance 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 human body. Climate is as much diffinguished 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 smell of many African nations, gives us reason to fuspect. Saline fecretions tend to curl and to burn the hair. The evaporation of any volatile fpirit would render its furface dry and difposed to contract, while the center continuing diftended by the vital motion, thefe oppofite dilatations and contractions would neceffarily produce a curve, and make the hair grow involved. This conjecture receives fome confirmation by observing that the negroes born in the United States of America are gradually F

34

dually losing the ftrong fmell of the African zone; their hair is, at the fame time, growing lefs involved, and becoming denfer and longer\*.

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.

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

\* Many negroes of the third race in America have thick close 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 domeflic fervants who have more leifure and better means than others to cherifh their hair. Many negroes, however, cut their hair as fast as it grows, preferring it fhort.

of the parent, they feem to be the most negligent people of their offspring in the univerfe\*. 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 duft and fand beneath the direct rays of a burning fun. The mother, if fhe is engaged, lays down the infant on the first fpot fhe finds, and is feldom at the pains to feek the miferable shelter of a barren shrub, which is all that the interior country affords. Thus the hair is crifped, while the complexion is blackened by exceffive heat<sup>†</sup>. There 15

\* The manners of a people are formed, in a great measure, by their neceflitics. 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 neceflity to be careful, they expose their children to its utmost influence without concern.

+ 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 maîters' manfions, are flow in adopting the manners of their superiors. There I have seen 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 she 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 expolure, although fhe 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

is 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 to largely on the form of this excretcence 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 flature—Their heads have a difproportioned magnitude to the reft of the body—Their fhoulders are raifed, 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 fea-

tures

and who expose them without covering for their heads to the fun and wind, we find greatly injures their hair. We rarely fee perfons 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.

tures are remarkably coarfe and deformed. And all thefe 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 laft degree of degeneracy.—A race of men refembling the Laplanders we find in a fimilar climate in America. The frozen countries round Hudfon'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.

These effects naturally result 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 foreible compression of some powerful machine. Men will therefore be found in the highest latitudes, forever small and of low stature\*. The excessive rigors of these frozen regions affect chiefly the extremities. The blood circulating to them with a more languid

\* 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 these northern tribes are not only fmall, but weak and timid.

languid and feeble motion has not fufficient vigour to refift the impreffions of the cold. These limbs consequently 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 obstructed, diftends these parts to a disproportionate 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 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 fmalleft, and their breaft and head of the most disproportioned magnitude, becaufe, inhabiting a climate equally fevere with the Samoiedes, they are reduced to a more favage flate of fociety\*.

#### Extreme

\* 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 most abject flate of favage life, and totally defitute of every art either for convenience or protection. The principles flated above apply to all these nations in proportion to the degree of cold combined with the degree of favageness. The inhabitants of the northern civilized countries of Europe are generally of lower flature than those in the middle regions. But civilization and a milder climate prevent them from degenerating equally with the porthern Afiatics and Americans.

Extreme cold likewife tends to form the next peculiarities of these races, their high shoulders, and their short necks. Severe frost prompts men to raife their shoulders as if to protect the neck, and to cherifh the warmth of the blood that flows to the head. And the habits of an eternal winter will fix them in that position .- The neck will appear fhortened beyond its due proportion, not only because it suffers an equal contraction with the other parts of the body; but because 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 these peculiarities are the effect of climate\*, the examples produced by French miffionaries in China, of most respectable characters, leave us no room to doubt, who affure us that they have feen, even in the forty eighth degree of northern latitude,

\* As climate is often known peculiarly to affect certain parts of the body, philofophy, if it were neceffary, could find no more difficulty in accounting for the fhort 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 frequently found in the regions of the Alps. But the observations before made will probably convince the attentive reader that there is no need to refort to such a folution of the phænomenon, when it feems to easily to be explained by the known operation of natural causes.

40

latitude, the posterity of Chinese families who had become perfect Tartars in their figure and aspect; and that they were diffinguished, 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 efcaped the attention of the moft incurious obferver.—Let us attend to the effects of extreme cold. It contracts the aperture of the eyes—it draws down the brows—it raifes the cheek—by the preffure of the under jaw against the upper it diminishes the face in length and spreads it out at the fides—and difforts the shape of every feature.

This, which is only a transient imprefion in our climate, foon effaced by the conveniencies of fociety, and by the changes of the feafon, becomes a heightened and permanent effect in those extreme regions, arifing from the greater intensity, and the constant action of the cause. The naked and defenceles condition of the people augments its violence and beginning its operation from infancy when the features are most tender and fusceptible

\* See Recueil 24 des lettres edifiantes.

tible of imprefiion, and continuing it, without remifion, till they have attained their utmost growth, they become fixed at length in the point of greatest deformity, and form the character of the Hudson or Siberian countenance.

The principal peculiarities that may require a farther illustration are the smallness of the nose, 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 **G** air

\* 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.

air augments the cold, and by increasing the contraction of the parts, reftrains 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.

Laftly the eyes in thefe rigorous climates are fingularly affected. By the projection of the eye-brows, they appear to be funk into the head; the cold naturally diminifhes their aperture; and the intenfity of the froft concurring with the glare of eternal fnows, fo overftrains thefe tender organs, that they are always weak, 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

\* 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.

warmth of the air disposing 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 efteemed a perfection. And in the strain of Homer,  $\beta_{oursis} \pi \delta |v| a H_{s}^{\delta n}$ would convey to a Greek an idea of divine beauty that is hardly intelligible to an inhabitant of the north of Europe. All the principles of the human conflitution unfolding themselves freely in such a region, and nature acting without constraint will be there steen most nearly in that perfection which was the original design and idea of the Creator<sup>†</sup>.

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 flate of fociety.

#### On

\* 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 pafs almost instantly from the former to the latter. And we find the Laplander, the Samoiede, the Mongou, and the tribes round Hudfon's bay in the neighbourhood of the Swede, the Russian, the Chinefe, and the Canadian. Without attention to this remark hasty reasoners will make the fudden change of features in these nations an objection against the preceding philosophy.

† 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.

#### On this fubject I observe,

44

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

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

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

A naked favage, feldom enjoying the protection of a miferable hut, and compelled to lodge on the bare ground and under the open fky, imbibes the influence of the fun and atmofphere at every pore. He inhabits an uncultivated region filled with flagnant 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 fifthing as well as of hunting. The vapour of rivers, the exhalations of marfhes, and the noxious effluvia of decaying vegetables, fill the whole atmofphere in an unimproved country,

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

This effect is augmented by the practice of painting, to which favages are often obliged to have recourfe in order to protect themfelves from the imprefions 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 neceffity is afterwards employed as an ornament; and a favage is feldom feen without having his fkin covered with fome composition that so find the fineness of its texture, and impairs the beauty and clearness of its natural colour. This is known to be the effect of the finess and washes

\* The forefts in uncultivated countries abforb a great part of thefe putrid vapours, otherwife they would be contagious and mortal. But as nature never makes her work perfect, but leaves the completion of her fchemes to exercise the industry and wildom of man, the growing vegetables do not abforb the whole effiuvia 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 diforders 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.

4.6

wafhes 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 see that coloured marks impressed by punctures in the skin 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.

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 darknefs of the favage complexion. Smoke we perceive difcolours the fkin of those labourers and mechanics who are habitually immerfed in it-it ftains every object long exposed to its action, by entering the pores, and adhering ftrongly to the furface .- It infinuates itself 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

And laftly, the hardfhips of their condition that weaken and exhauft the principle of lifetheir fcanty and meagre fare which wants the fucculence and nourishment which give freshnefs and vigour to the conftitution-the uncertainty of their provision which fometimes leaves them to languish with want, and sometimes enables them to overstrain themselves by a furfeit-and their intire inattention to perfonal and domeftic cleanlinefs, all have a prodigious effect to darken the complexion, to relax and emaciate the conftitution, and to render the features coarse and deformed. Of the influence of these causes we have an example in perfons reduced to extreme poverty, who are usually as much diffinguished by their thin habit, their uncouth features, and their fwarthy and fqualid afpect as by the meannefs of their garb. Nakednefs, expofure, 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 ufually render men in

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

As

\* One of the greateft 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; and they feldom have judgment and impartiality fufficient to examine and reafon with juftnefs and caution; and from innumerable facts which neceffarily have many points of difference among themfelves, to draw general conclusions. 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 thefe remarks .- A few examples perhaps may occur, among favages, of regular and agreeable features, or of ftrong and mulcular bodies; as in civilized fociety we meet with fome rare inftances of aftonishing beauty. If, by chance, a perfon of narrow obfervation, and incomprehenfive mind, have feen 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 coarfe and uncouth features of favages, and their want of those fine and mulcular proportions, if I may call them fo, in the human body, that indicate ftrength combined with swiftness. 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 robuft 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 these 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 mufcles, likewife, on which the fine proportions of perfon fo much depend, are generally finaller and more lax, than they are in improved fociety that is not corrupted by luxury, or debilitated by fedentary occupations

As a favage flate contributes to augment the influence of climate; or, at leaft, to 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 conveniencies of clothing and of lodging-the plenty, and healthful quality of food-a country drained, cultivated, and freed from noxious effluvia-improved ideas of beauty-the conftant fludy of elegance, and the infinite arts for attaining it, even in perfonal figure and appearance, give cultivated an immense 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, H that

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 defeription 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 contraft with the ufual condition of that flate impofes on the mind. And the exalted reprefentations of favage beauty, which we fometimes read, are true only by comparifon with favages.— There is a difference, in this refpect between man, and many of the inferior animals which were intended to run wild in the foreft. They are always the moft beautiful when they enjoy their native liberty and range. They decay and droop when attempted to be domefficated or confined. But man, being defigned for fociety and civilization, attains, in that flate, the greateft perfection of his form, as well as of his whole nature.

that all the features of the human countenance are *modified*, and its intire *expression* radically formed, by the flate of fociety.

Every object that impresses the fenses, 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 deformed, and folitary forefts tend to impress 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 constant exposure to the injuries of the weather, render them coarfe and uncouth. The infinite attentions of polished fociety give variety and expression to the face. The want of interesting emotions leaving its mufcles 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

nance 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 ftrength, according to their combinations with other principles, and according to the peculiarities of conflitution 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 form's of government are infinitely various, they open a boundlefs field for variety in the human countenance. It is impoffible 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 phyfiognomist, 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 observation.

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

#### I shall

I shall then shew in what manner some of the most diffinguishing features of the favage, and particularly of the American favage with whom we are best acquainted, naturally result from the rude condition in which they exist.

To evince that the flate 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 flates 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 flandard 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 fociety, we difcern great and obvious diftinctions, 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,

tures, and more coarfe and ill-formed in their limbs, than perfons of better fortune, and more liberal means of fubfistence. 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 circumstances may give a happy affemblage of features to the other. But these exceptions do not invalidate the general obfervation\*. Such diffinctions 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 separately found in different countries, the philosophy of some writers would have ranged them in different fpecies. A fimilar diffinction takes place between the nobility and

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

and peafantry of France, of Spain, of Italy, of Germany. It is even more confpicuous in many of the eaftern nations, where a wider distance exists between the highest and the lowest classes in fociety. The naires or nobles of Calicut, in the East-Indies, have, with the ufual 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 studies and atchievments, are diffinguished by that manly beauty and elevated stature fo frequently found with the profession 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 fpirit 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 diftinguish 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 obfervation

vation 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 eastern, and those in the western countries in Scotland, is fensible and striking. The farmers who cultivate the fertile countries of the Lothians have a fairer complexion, and a better figure, than those who live in the west, and obtain a more coarse and fcanty fubsistence from a barren foil\*.

\* 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 conftitution. 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, fhe was emaciated, and as is common to children who have lain in the afhea 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 fpace of four years, fresh and ruddy in her complexion, her hair is long and flowing, and the 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 obferver. It equally affects the inferior animals. The horfe, according to his treatment, may be infinitely varied in fhape and fize. The flefh of many species of game differs both in tafte 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 vallies 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 fubfistence will necessarily have a great influence on the human figure and complexion .---- The difference, however,

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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 because a more general 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 acquifition of fortune by the loweft orders of citizens-And, thefe not being prohibited, by the laws or cuftoms of the nation from afpiring to connections with the higheft ranks, families in that country are frequently blended. You often find in citizens the beautiful figure and complexion of the nobleft blood; and, in noble houfes, the coarfe 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 flate of local man-

ners,

however, between 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 performal appearance, than the fedentary employments of manufacture.

ners, to impress its character deeply on the conflitution. Equality of rank and fortune, in the citizens of the United States, fimilarity of occupations, and of fociety, have produced fuch uniformity of character, that, hitherto, they are not firongly marked by fuch differences of feature as arife folely from focial diflinctions. 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 diftinguish the flates from one another. Hereafter they will advance into more confiderable and characteristic diffinctions.

If the white inhabitants of America afford us lefs confpicuous inflances, 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. I Living

their Lock animated

58

Living by themfelves, they retain many of the cuftoms and manners of their African ancestors. The domestic fervants, on the other hand, who are kept near the perfons, or employed in the families of their mafters, 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 expreffive countenance of civilized fociety .----The former are frequently ill shaped. 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 and fhape of the mouth handfome, their features regular, their capacity good, and their look animated\*. Another

\* The features of the negroes in America have nndergone a greater change than the complexion; becaufe depending more on the flate 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 domeflic

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 ftates, 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 ftate of fociety\*.

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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 fensibly longer in each fucceeding race; especially in thofe who drefs and cultivate it with care. After many inquiries, I have found that, wherever the hair is flort and closely curled in negroes of the fecond or third race, it is because they frequently cut it, to fave themfelves the trouble of dreffing. The great difference between the domeftic and field flaves, gives reason 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 masters, they would change their African peculiarities much faster.

The refemblance between these captives, and the native favages is fo ftrong, as at first to strike every observer with astonishment. Being taken in infancy, before fociety could have made any impressions upon them, and spending in the folitude and rudeness of favage life that tender and forming age, they grow up with the same apathy of countenance, the fame

The college of New-Jerfey furnifhes, at prefent, a counterpart to this example. A 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

fame lugubrious wildness, the fame fwelling of the features and mufcles of the face, the fame form and attitude of the limbs, and the fame characteristic gait, which is a great elevation of the feet when they walk, and the toe fomewhat turned in, after the manner of a duck. Growing up perfectly naked, and exposed to the constant action of the fun and weather, amidit all the hardinips of the favage flate, their colour becomes very deep. As it is but a few shades lighter than that of the natives, it is, at a small distance, hardly distinguishable. This example affords another proof of the greater cafe with which a dark colour can be imprefied, than effaced from, a fkin originally fair. The caufes of colour are active in their operation, and speedily make a deep impression. 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 must therefore be flow in its effects; especially as long as the smallest degree of pussive agency is suffered from the original caufes of colour. And as the fkin retains, with great conflancy, impreflions once received, 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 favage flate, to change a white fkin to the darkeft hue the climate can imprefs, would, with the most careful protection, lighten a black colour, only a few shades. And because 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 impreffions fo long, and the tanning incurred by exposing it one day to the fun, is not, in many days, to be effaced, we may juftly conclude that a dark colour once contracted, if it be expefed but a few days in the year to the action of the fun and weather, will be many ages before it can be intirely effaced. And unless the difference of climate be fo confiderable as to operate very great changes on the internal conftitution and to alter the whole flate of the fecretions, the negroe colour, for example, may, by the exposure of a poor and fervile state, be rendered almost perpetual.

fame flate of fociety, united with the fame climate, would make the Anglo-American and the Indian countenance very nearly approximate. He was too far advanced in favage habits to render the observation complete, becaufe, all impreffions 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 fellow-fludents in the largeneis of the mouth, and thickneis 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 sensibly diminishing. They seem, the faster, to diminish in proportion as he loses that vacancy of eye, and that lugubrious wildness of countenance peculiar to the favage flate, 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 stain of blushing, that, on a near inspection, is inftantly difcernible, still forms the principal

principal diffinction\*. There is lefs difference between his features and those of his fellowftudents, than we often fee 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 circumstance 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 causes. Particular differences are small. 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 finall numbers, appears great and unaccountable. And we have not patience, or fkill it may be, to divide this combined refult into its least portions, and to fee, in that flate, how eafy it is of comprehension or folution.

The flate of fociety comprehends diet, clothing, lodging, manners, habits, face of the country,

<sup>\*</sup> See the preceding note for a reafon why the complexion is lefs changed than many of the features.

country, objects of fcience, religion, interefts, paffions and ideas of all kinds, infinite in number and variety. If each of these causes be admitted to make, as undoubtedly they do, a fmall variation on the human countenance, the different combinations and results of the whole must necessarily be very great; and combined with the effects of climate will be adequate to account for all the varieties we find among mankind\*.

Another origin of the varieties fpringing from the ftate of fociety is found in the power which men poffefs over themfelves of producing great changes in the human form, according to any common ftandard of beauty which they may have adopted. The ftandard of human beauty, in any country, is a general idea formed from the combined effect of climate and of the ftate of fociety. And

\* 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 same country may, from various combinations of these causes, be very different. And, from the variety of combination, the poor of one country may have better complexion, features and proportions of person, 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 effay to be ill-founded, if he examines the human form in any country by the effect 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.

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it reciprocally contributes to increase the effect from which it springs. Every nation varies as much from others in ideas of beauty as in personal appearance. Whatever be that standard, there is a general effort to attain it, with more or less ardor and success, in proportion to the advantages which men possibles in society, and to the estimation 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 exflinguish all deforming emotions of the paffions. To this object tend many of the arts of polished 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

different means are employed for attaining them, we may frame fome conception, from the diffinctions that exift in the fame nation, in which fimilar ideas and fimilar means are used, 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 vulgar ?--- between the uncouth features and unpliant limbs of an unpolifhed ruffic, 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, because we see the operation of the causes. But if we should find an intire nation diffinguished by one of these characters, and another by the contrary, fome writers would pronounce them different races; although a true philosopher ought to understand that the cultivation of oppofite 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 K

diverfities that depend upon this caufe are infenfibly wearing away as the progress 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 eyes and large ears. They are at great pains, therefore, to comprefs 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 shoulders, which they confider as the highest beauty. On the fame principle, they extirpate the hair from their bodies :

\* 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 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.

66

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 north-eastern regions of Afia\*. In Arabia and Greece large eyes are efteemed beautiful; and in these countries they take extraordinary pains to ftretch the lids, and extend their aperture. In India, they dilate the forehead in infancy, by the application of broad plates of lead. In China they compress the feet. In Caffraria, and many other parts of Africa, and in Lapland, they

\* The celebrated Dr. Robertson, in his history of 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 falfe. 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 fense of beauty they extirpate it with great pains. And traders among them are well informed, that tweezers for that purpole, are profitable articles of commerce.

they flatten the nofe in order to accomplish a capricious idea of beauty. The fkin, in many nations is darkened by art; and all favages efteem certain kinds of deformity to be perfections; and strive to heighten the admiration of their perfons, by augmenting the wildnefs 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 also. The process of nature in this is as little known as in all her other works. The 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 features of labouring people, created by hardships, and by long exposure to the weather, are communicated. - The broad feet of the ruftic, that have been fpread by often treading the naked ground; and the large hand and arm, formed by conftant labour, are difcernible in children. The increase or diminution of

68

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 tafte. Out of the fame original ftock the Germans who are fettled in Pennfylvania, raife large and heavy horfes; the Irish raife fuch as are much lighter and smaller. According to the pains beftowed, 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 short time, be black, or white, or bay\*. Human nature much more pliant, and affected by a greater variety of caules from food, from clothing, from lodging and from manners, is ftill more eafily fusceptible of change, according to any general flandard, 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

\* By chufing horfes of the requifite qualities, to fupply the fluds.

and cultivate the habits and ideas of the countries from which they emigrated, retain, even in our climate, a flrong refemblance 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 eafy now to diftinguifh from one another people who have fprung from fuch different origins.

I have faid that the process of nature in this, as in all her other works, is inexplicable. One secondary 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 any country. An influence

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 excess. I am ready to believe that philosophers, at prefent, run to extremes on the other hand. They deny intirely 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 fhould 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.

influence this which will gradually approximate the countenance towards one common standard. If men in the affair of marriage, were as much under management as fome other animals, an absolute ruler might accomplish, 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 tafte, impedes, in fome degree, the general effect. There is however a common idea which men infenfibly to themfelves, and almost without defign, purfue. And they purfue it with more or lefs fuccefs in proportion to the rank and tafte of different claffes 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; becaufe, 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 flate of fociety, have, within a few races, almoft

72

almost effaced the characters of their Tartarian origin. The Tartars, from whom they are defcended, are among the most deformed and flupid 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 barbarism 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 flate of fociety is the most improved. 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

\* Society in America is gradually advancing in refinement: and if my obfervation has been just the prefent race furnishes more women of exquifite beauty than the last, though they may not always be found in the fame families. And if fociety should continue its progressive improvement, the next race may furnish more than the prefent. Europe has certainly made great advances in refinement of fociety, and probably in beau-

ty.

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 cuftoms, their exercifes, their laws, and their philosophy, appear to have had in view, among other objects, the beauty and vigour of the human conflitution. And it is not an improbable conjecture, that the fine models exhibited, in that country, to flatuaries and painters, were one caufe 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 fystem 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

ty. 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.

74

without system or design, 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 firain of language, which is borrowed from nature, vindicates this criticifm. A princely perfon, and a noble thought, are usual figures of speech+ .--- Mental capacity, which is as various as climate, and as perfonal

\* 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 "*Erect* [or nobles] through all the other iflands, is found alfo here. Thofe "whom we faw, were, without exception perfectly well formed; where-"as the lower fort, befides their general inferiority, are fubject to all the "variety of make and figure that is feen in the *populace* 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, 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

perfonal appearance, is, equally with the latter, fusceptible of improvement, from fimilar caufes. The body and mind have fuch mutual influence, that whatever contributes to change the human conflitution in its form or afpect, has an equal influence on its powers of reason and genius. And these have again a reciprocal effect in forming the countenance. One nation may, in confequence of conftitutional peculiarities, created more, perhaps, by the flate of fociety, than by the climate, be addicted to a grave and thoughtful philofophy; another may poffefs a brilliant and creative imagination; one may be endowed with acuteness and wit; another may be diftinguished for being phlegmatic and dull. Beotian and Attic wit was not a fanciful, but real diffinction, though the remote origin of Cadmus and of Cecrops was the fame. The state of manners and fociety in those republics produced this difference more than the Bœotion air, to which it has been fo often attributed. By the alteration of a few political, or civil, or commercial inftitutions, and confequently,

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 enthufiafm.

fequently, of the objects of fociety and the train of life, the establishment 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 philosophy feldom flourish together in their highest lustre. 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 becaufe the race of men, but because manners and objects are changed. If as faithful a picture could be left to pollerity of perfonal as of mental qualities, we should probably find the one, in these 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 tafte, and even coarfe and meagre food may have fome tendency to blunt the powers of genius. These causes have a more powerful operation

operation than has hitherto been attributed to them by philosophers; and merit a more minute and extensive illustration than the fubject of this difcourse will admit. The mental capacities of favages, for these causes, are ufually weaker than the capacities of men in civilized fociety\*. The powers of their minds, 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 exercise. The coarfenels of their food, and the filthinels of their manners tend to blunt their genius. And the Hottentots, the Laplanders, and the people of New-Holland are the most stupid of mankind for this, among other reafons, that they approach, in these respects, the neareft to the brute creation +.

#### 1 am

\* The exaggerated reprefentations which we fometimes receive of the ingenuity and profound wifdom 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 mong 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 fufceptible 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.

77

78

I am now come to fhew 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 flupid 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, these differences in point of climate, combined with those that necessarily arife out of their flate of fociety, have produced varieties fo great as to aftonish hafty obfervers, and hafty philosophers .- The varieties indeed produced in the features by favage life are great; but the real fum of them is not fo 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 aspect, by comparison, the final refult appears prodigious\*.-For example, a change made in the eye,

\* See pages 63 and 64.

eye, produces a change in the whole countenance; becaufe it prefents 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 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 comparison 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 observers, and will sometimes embarrafs the most difcerning philofophers, till they learn, in this manner, to divide and combine effects.

To treat this fubject fully, it would be neneffary, in the first place, to ascertain the general countenance of favage society—and then,

80

then, as there are degrees in the favage as well as in the civilized flate, to diffinguish the feveral modifications which each degree makes in the general afpect-and, in the laft place, to confider the almost boundless varieties that arife from combining these general features with the effects of climate and of other caufes already mentioned .--- I do not propose, however, to pursue the subject to fuch extent. I fhall endeavour only to draw the general outlines of the favage countenance as it is formed by the state of fociety; and shall leave its changes refulting from the different degrees of that flate, and from the combinations of these with other causes and effects, to exercise the leifure and observation 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 fwelled and protruded—and the nose, in the fame proportion, depressed. This

\* 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.

This is the picture .- To explain it I obferve, 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 beftow on each individual fome fingular and perfonal traits, according to his genius, education, or purfuits. Between favage and civilized fociety there will be all the difference that can arife from thinking 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 M

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, difposes him to melancholy. He seldom 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. These folitary and melancholy emotions ferve to caft over his vifage, which other caufes render fixed, and unexpreffive, a fad and lugubrious air. The wild fcenes of nature in an uncultivated country impress fome refemblance of themselves on the 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

\* The inhabitants of the numerous fmall iflands in the great Southern and Pacific oceans form an exception to this remark. Prevented, by their isolated state, 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 feen upon the continent. 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\*.

Society and thought put a firicture upon the mufcles of the face, which, while 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<sup>†</sup>. But the vacant mind of the favage leaving the face, the index of sentiment and passion, unexerted, its muscles are relaxed, they consequently 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

\* 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.

+ 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.

litary and melancholy emotions. When, therefore, thefe are the natural refult of the flate of fociety—when they operate from infancy, and are feldom counteracted by the more gay and intenfe emotions 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 deprefilion of the feature of the nofe. It feems as if the extension of the nerves in one direction, reftrained and fhortened them in another<sup>†</sup>. Savages, therefore,

\* 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.

+ By a fmall experiment on ourfelves we may render this effect obvious. By a protution of the lips, or by drawing down the mouth at the corners,

we

fore, commonly have this feature more funk and flat, than it is feen 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\*.

The preceding obfervations tend to account for fome of the moft diffinguishing features of favages. To these I might have added another general reason of their peculiar wildness and uncouthness in that flate of fociety.—The feelings of favages, when they deviate from their usual apathy, are mostly of the uneasy kind; and to these they give an unconstrained expression. From this cause will necessarily result a habit of the face, in the

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 first reflections upon the fubject.

\* That fuch an effect fhould be the refult of climate 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 is becoming more prominent in the pofterity of those who have been removed from Africa to America.

the higheft degree rude and uncouth. As we fee, a fimilar negligence among the vulgar adds exceedingly, to that difgufting coarfenefs which fo many other caufes contribute to create.

I have now finished the discussion 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 caufes, 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 progrefs. But. on this fubject, it deferves to be remembered, that the minutest causes, by acting constantly, are often productive of the greatest confequences. The inceffant drop wears a cavity, at length in the hardeft rock. The impreffions of education which fingly taken are fcarcely difcernible, ultimately produce the greatest differences between men in fociety. How flow the progrefs of civilization which the influence of two thousand years hath as yet, hardly ripened in the nations of Europe? How minute and imperceptible the operation of

86

of each particular caufe that has contributed to the final refult? And, yet, how immense 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 minutest causes, and thefe changes, habitually repeated, create at length, confpicuous diffinctions. The effect proceeds increasing 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 afk, why, unlefs there be an original difference in the fpecies of men, are not all *born* at leaft with the fame figure, or complexion? It is fufficient to anfwer to fuch enquiries, that it is for the fame reafon, whatever that may be, that other refemblances of parents are communicated to children. We fee that figure, ftature, complexion, features, difeafes, and even powers of the mind become hereditary. To those who can fatisfy themfelves with regard

gard to the communication of these properties, the transmission of climatical or national differences ought not to appear furprizingthe 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 answer that thefe are only partial accidents which do not change the inward form and temperament of the conflitution. It is the conflitution that is conveyed by birth. The caufes which I have attempted to illustrate, change, in time, its whole ftructure and composition-And when any change becomes incorporated, fo to fpeak, it is, along with other conflitutional 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

lous when he only doubts concerning the relations of Struys, and other prodigy-mongers, who have filled the hiftories of their voyages with crude and hafty obfervations, the effects of falsehood, or of stupid furprize. Nothing can appear more contemptible than philofophers with folemn faces, retailing like maids and nurfes, the ftories of giants\*---of tailed men<sup>+</sup>—of a people without teeth<sup>‡</sup>—and of fome abfolutely without necks §. It is a shame 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 N ftrong

\* Buffon, defcribing the inhabitants of the Marian, or Ladrone islands, fuppofesthat 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 first, had tails—that they have fallen off by civilization—but that there are still fome nations, and fome individuals who have this honorable 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 impossible to fay. But a monstrous birth, if it should happen, however it may be exaggerated by the ignorance of failors, fhould never be dignified as a species in the writings of philosophers.

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

§ Sir Walter Raleigh pretends to defcribe 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 deftroyed them.

90

ftrong light, the falfehood of fimilar wonders, with regard to this continent, that were a few years ago reported, believed, and philofophifed on in Europe. We hear every day the abfurd remarks, and the falfe reafonings 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 influence of habits and ideas framed in a different climate, and a different flate 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<sup>\*</sup>.

\* It requires a greater portion of reflexion and philosophy than falls to the lot of ordinary travellers to enable them to judge with propriety of men and things in diftant countries. Countries are defcribed from a fingle fpot, manners from a fingle action, and men from the first man that is feen on a foreign fhore, 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 furprize occafioned by an uncommon complexion or composition of features, has increased 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 Calais. What information concerning those kingdoms could fuch a vifitant afford his countrymen from fuch a vifit ? Belide the limited fphere of his obfervation, he would fee every thing with aftonifhment or with difguft, that would exaggerate, or diffort 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 CITOF

Since America is better known, we find no canibals in Florida; no men in Guiana 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 Gamelli Carreri has been pleafed to mention. Tavernier's tales of the fmooth and hairles bodies of the Mogul women, may be

error induced Capt, Cook in his first voyage, to form an unfavourable opinion of the modefty and chaftity of the women of Otaheite, 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 flate of fociety, to violate the chaftity of their females. They are fometimes reprefented as licentious, becaufe they often lie promifcuoufly round the fame fire. Both judgments are falfe, and formed on prepoffeffions created in fociety. Simplicity of manners, more than conflictution, 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 supposed to be united with licence. Luxury, reftraints, and the arts of polifhed fociety inflame defire, which is allayed by the coarfe manners, and hard fare of favage life, where no fludied excitements are used to awaken the paffions. The frontier counties of all thefe ftates at prefent afford a ftriking example of the truth of this reflexion. Poor, and approaching the roughnels 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 amidit the reftraints and incitements of more polifhed fociety. On a like foundation cowardice has been imputed to the natives of America, becaule 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 flature of the first vagrant feen upon a distant shore, has furnifhed the character of a whole nation. It is abfurd to build philosophic theories on the ground of fuch ftories.

be ranked with thofe which have fo long, and fo falfely attributed this peculiarity to the natives of America. The fame judgment may we form of thofe hiftories which reprefent nations without natural affection; without ideas of religion; and without moral principle<sup>\*</sup>. In a word, the greater part of thofe extraordinary deviations from the laws of climate, and of fociety, which formerly obtained credit, are difcovered, by more accurate obfervation, to have no exiftence. If a few marvellous phænomena are ftill retailed by credulous writers, a fhort time will explode them all, or fhew that they are mifunderftood, and enable

\* Nations have been judged to be without religion becaufe travellers have not feen temples; becaufe they have not underflood their cuftoms, or their language; or have not feen them engaged in any act of worfhip. Nations have been judged to be without natural affection, becaufe one man has been feen 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 Kaims 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 lordfhip, all their own children as foon as they are born, and fupply their places with youth ftolen from the neighbouring tribes. If this character had been true, even his lordfhip'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 flock should have lived. The stolen youth would refemble their parents, and would, at length, compofe the nation. And yet the Giagas, according to his lordfhip, would continue to kill their children, and to be a flanding monument of the falfehood of the fcriptures! An excellent fpecimen of the eafy faith of infidelity !-----Prelim. Difc. to Sketches of the Hift. of Man, by lord Kaims.

92

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

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

Africa

Africa is not uniform. The complexion of the weftern coaft is a deeper black than that of the eaftern. It is even deeper on the north of the equator than on the fouth. The Abyfinians 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 moft beaftly, and in their perfons and the faculties of their minds approaching the neareft to brutes of any of the human fpecies.

For the explication of these varieties it is neceffary to obferve that the fame parallel of latitude does not uniformly indicate the fame temperature of heat and cold. Vicinity to the fea, the courfe of winds, the altitude of lands, and even the nature of the foil, create great differences in the fame climate. The ftate of fociety in which any nation takes poffession of a new country has a great effect in preferving, or in changing their original appearance. Savages neceffarily 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,

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 Jeats, 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 second. In a new removal the combined effect of the two climates, would become the ground, on which would be impreffed, the characters of the third. This exhibits a new caufe of endlefs variety in the human countenance.

These principles will ferve to explain many of the differences that exist in those countries which have been the subjects of most frequent conquest\*. India and the northern regions

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

96

regions of Africa, have been often conquered, and many nations have eftablished 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, forever, distinct in their figure and complexion, as long as 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 conquests 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 still preferve among them effential and confpicuous diffinctions\*.

#### Another

\* From the preceding principles we may justly conclude that the Anglo-Americans

Another variety which feems to form an exception from the principles hitherto laid down; but which really eftablishes 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 iflands and narrow peninfulas. The principle 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

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 impreffions of the climate on a countenance, the ground of which was formed in Europe, and in a flate of improved fociety; the other has plainly received them on a countenance formed in Tartary. And yet the refemblance becomes near and ftriking in those perfons who have been captivated by the Indians in infancy, and have grown up among them in the habits of favage life. These principles likewife will lead us to conclude that the Samoiedes are Tartars 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 Afia, laid upon a ground formed in the Upper Afia.

98

nents that 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 vast infular countries, which, by their position 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 voyagest. Similarity of climate, and of manners, have created this striking refemblance, between people fo remote from one another.

The next apparent exception, we difcover in Africa itfelf. Africa, like Europe and Afia, is full of varieties, arifing from the fame caufes, vicinity to the fun, elevation of the land, the heat of winds, and the manners of the

\* 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.

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 negroe. The Caffre complexion prevails along the eaftern coaft, and in the country of the Hottentots. The negroe, on the western coast between the tropics. The negroe is the blackeft colour of the human skin, the Caffre is much lighter and feems to be the intermediate grade between the negroe 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 course of the fun, reach the eastern coaft of Africa, cooled by blowing over immenfe oceans, and render the countries of Aian, Zanguebar and Monomotapa, comparatively temperate. But after they have traverfed 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

\* 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 fouth of the equator. Accordingly, we find the people of a deeper black in the northern than in the fouthern section of the torrid zone.

## 100 Of Complexion and Figure

ardor unknown in any other portion of the globe. The intenfe heat, which, in this region, makes fuch a prodigious change on the human conflitution, equally transforms the whole race of beafts and of vegetables. All nature bears the marks of a powerful fire\*. And the negroe is no 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 shade of the negroe colour; and immediately beyond them to the north, the darkeft copper of the Moorish complexion. There is a fmaller 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 impressions of the climate. But the Hottentots, being the most favage of mankind, fuffer the influence of their climate

in

\* The luxuriancy of the trees and herbage along the banks of the great rivers has deceived fome travellers 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 center of Africa, the Zuinges, who, the Arabian writers fay, are often almost intirely cut off, by hot winds that rife out of the furrounding deferts.

### in the Human Species.

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 anceftors, 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 fkin 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 lightest stain 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 diffinguishes the correspondent northern latitudes\*. As

\* 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 exaggeratcd, and those that are true are the natural offspring of their brutal manners,

## Of Complexion and Figure

As you afcend along the eaftern coaft from Cafraria to Aian, the complexion becomes gradually deeper, till fuddenly you find, in Abyffinia, a race of men refembling the fouthern Arabians. Their hair is long and ftraight, 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 mildeft region of tropical Africa, and are fanned by the temperate winds that blow from the Indian ocean. Abyffinia is likewife a high and mountainous country, and is washed 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 mountains fpring two of the largest and the longest rivers in the world, the Niger and the Nile\*. This altitude

\* The prodigious and inceffant deluges of rain that fall in Abyffinia 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.

102

## in the Human Species.

tude of the lands, raifes it to a region of the atmosphere that is equivalent to many degrees of northern latitude<sup>\*</sup>. Thus, the civilization of the people, the elevation of the country, the temperature of the winds, and inceffant clouds and rain during that feason of the year in which the fun is vertical, all contribute to create that form and colour of the human person 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 phænomenon into an argument for the original diffinction of fpecies. But those who have

mountains. The greatest quantity of rains usually fall on mountains and the highest lands; and their elevation may, in a great measure, be determined by the length of the rivers that issue 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 muft be fituated more than two miles above the level of the fea. But if we fhould fuppofe this account to be exaggerated, ftill we muft judge its altitude to be very great, confidering that it is almost intirely a region of mountains, which are the fources of those vaft rivers.

# 104 Of Complexion and Figure

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 posses the full characters of the climate<sup>\*</sup>.

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,

\* Mr. James Lind, a phyfician 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 those cold mountains, may have contributed to preferve this diffinction between them and the Moors and Arabs, who live in the low lands. Lord Kaims, who writes with infinite weakness on this fubject, exclaims with an air of triumph, if the climate in a thousand years has not changed these people into a perfect refemblance of the aborigines, we may fafely pronounce it never will change them,—I confess it, if they preferve their prefent elevation. But to conclude that the climate cannot change them on the plains, because it has not changed them on the mountains, is the fame kind of reasoning as it would be to conclude that the fun could not melt fnow at the bottom of Ætna or Pambamarca because it continues cternally frozen at the top.

#### in the Human Species.

Africa, and many of the oriental illands. 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 eftablished in this effay; in which it has been shewn 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 America 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<sup>\*</sup>, till you arrive at the darkeft P hue

\* In travelling from the great lakes to Florida or Louifiana, through the Indian nations, there is a vifible progreffion in the darkness of their complexion.

# 106 Of Complexion and Figure

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; and the caufe, I propofe now to explain.

The torrid zone of America is uncommonly temperate. This effect arifes in part from its fhape; in part from its high mountains, and extensive lakes and rivers; and in part from its uncultivated state. All uncultivated regions, covered with forests and with waters, are naturally cold\*. The torrid zone of Ame-

rica

plexion. And at the councils of confederate nations, or at treaties for terminating an extensive war, you often see fachems and warriors of very different hues. But the colour of the natives of America, though diversified, is lefs various than in other quarters of the globe of equal extent of latitude. And as the fame ftate of fociety universally prevails, there is a fystem of features that refults from this, which is every where fimilar. These features giving the predominant aspect 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.

\* The difference, in point of climate, which cultivation has produced between modern and ancient Europe, is well known. And it is probable that,

### in the Human Species.

rica is narrow-its mountains and its rivers are immense-and Amazonia may be confidered, during a great portion of the year, as one extensive laket. 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 eastern and western oceans. Terra Firma is a hilly region. Amazonia, though low and flat, is shaded by boundless forests, and cooled by the numerous waters that flow into the largeft rivers in the world. The mildnefs of its atmosphere is augmented by the perpetual east 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 course 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;

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,

## 108 Of Complexion and Figure

ridges; fanned on the other by a perpetual weft 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 vaft forefts 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 respiring in the grateful and refrigerating effluvia of vegetables, enjoy, in the midft of the torrid zone, a moderate climate.

These observations tend to shew 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 Negroe, and of the Indian.

Thus

# in the Human Species.

Thus have I concluded the examination, which I proposed, into the causes of the principle varieties of perfon 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 ferve 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 confusion which fuch principles tend to introduce. The fcience 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 fludy 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 composition of species. Such principles tend

## 110 Of Complexion and Figure

tend to confound all fcience, 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 physical caufes, and opens a rich and extensive field for moral science. The unity of the human race I have confirmed by explaining the caufes of its variety.-The first and chief of these I have shewn 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 itfelf the independent caufe of many confpicuous diffinctions 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 state of fociety\*. 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

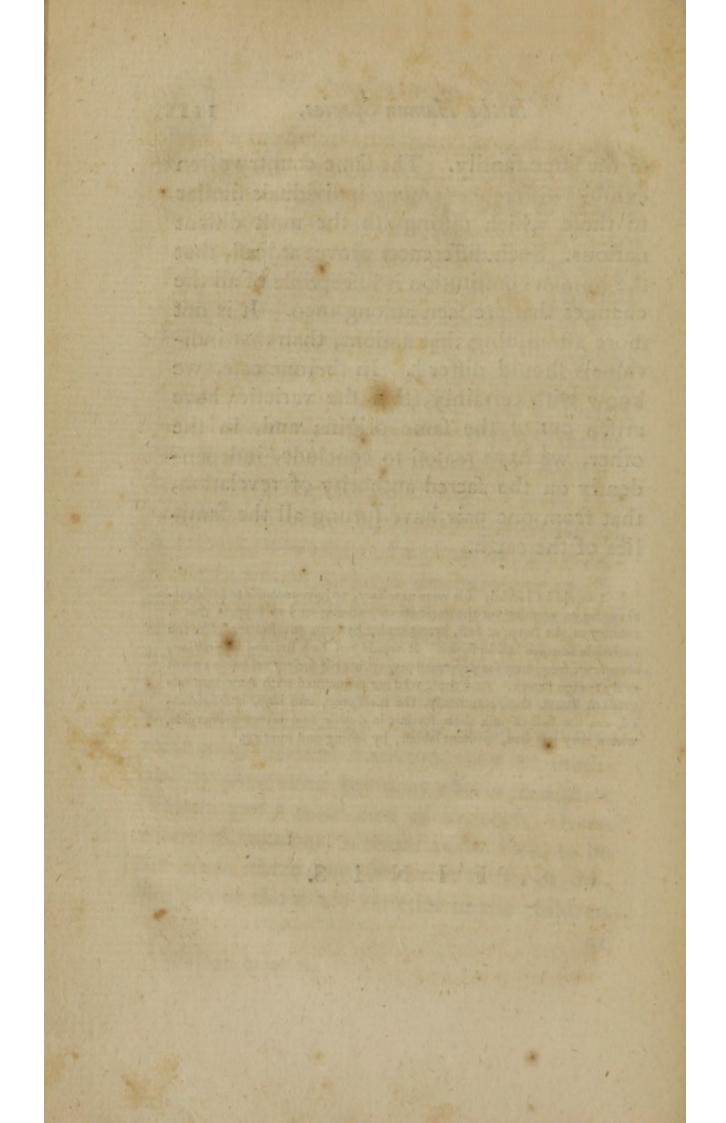
\* Vide pages, 95 and 96.

#### in the Human Species.

of the fame family. The fame country often exhibits differences among individuals fimilar to thofe which diftinguifh the moft diftant nations. Such differences prove, at leaft, that the human conflictution is fufceptible of all the changes that are feen among men. It is not more aftonifhing that nations, than that individuals fhould differ †. In the one cafe, 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.

<sup>†</sup> 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.

#### FINIS.



# STRICTURES

O N

LORD KAIMS'S DISCOURSE

#### ONTHE

#### ORIGINAL DIVERSITY OF MANKIND.

ORD Kaims, in a preliminary difcourfe to his fketches 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 ftands fo high in the literary world, that we may juftly prefume he has comprehended in that differtation whatever can be urged with folidity againft this opinion. Every reader will probably deem the refutation of fuch an antagonift, no inconfiderable addition to the force of the preceding argument.

The character of lord Kaims, 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 propofe to fhew that many of the fuppofed facts on which his lordship relies in the train of his argument, have no existence, and that almost the whole of his reafoning is inconclusive.

Q

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 na-" ture 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 " usually become fickly and often degenerate."

This power of the climate to change the perfon 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 tranfplanted 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 these favages, the example concludes against his lordship's principle.

But men, he contends were not made for different climates, "becaufe, in changing their climate, they "ufually become fickly."

This argument fuppofes that man was not made for fituations in which he is liable to encounter danger ger or difeafe. 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 fickness, 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 should be made gradually, and with precaution. If this prudential conduct be observed, the human conftitution, 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 ftate; and even from one part to another of the fame ftate: but it would be abfurd 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, becaufe the latter are less healthy than the former? The conftitution becomes attempered, in a degree even to an unhealthy region, and then it 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 atmosphere? This argument deftroys itself by the extent of the confequences which it draws after it.

His

(3)

His lordship's fecond argument which is only a repetition of part of the first, is certainly an extraordinary example of philosophic reasoning---" Men, fays " he, must have been originally of different stocks, " adapted to their respective climates, because an Eu-" ropean degenerates both in vigour and in colour " on being removed to south America, to Africa, or " to the East Indies."

The fact is as his lordfhip ftates it. An European changes his colour on being removed to thefe diftant climates. But one would think that true philofophy fhould have drawn from this fact a contrary conclufion. 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 ftronger proof of the original difference of races.

He confirms this obfervation, however, by the example of "a Portuguefe colony on the coaft of Con-"go, who in a courfe of time, he affirms, have de-"generated fo much, that they fearce retain the ap-"pearance of men."

A fact more to the purpose 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 for ude that fcarcely do they retain the appearance of men, does not his lordship's example prove that, in some remote period, they might have descended from the same origin with these descented Portuguese?

His

His lordfhip has been egregioufly deceived in the principle on which he attempts to prove that America is not adapted to European conftitutions. He afferts that " Charlestown in Carolina is infufferably " hot; because fays he, it has no fea-breeze---that " Jamaica itfelf is a more temperate climate --- and " that the inhabitants of both die fo fast that if con-" tinual recruits did not arrive from Europe to fup-" ply the places of those that perish the countries " would be foon depopulated." --- How cautious fhould philosophers be of afferting facts, without well examining the authority on which they receive them ! All thefe affertions are equally and entirely falfe. And if a philosopher, and a lord of feffions in Scotland, talks fo ignorantly of that country which, from its long and intimate connexion with Britain, he should have understood 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, against the doctrine of one race, are still 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 Ame-"rica are destitute of hair on the chin and body."

That philosophers should fometimes be deceived in their information is not furprizing; but they are certainly blameable, after having found in fo many repeated examples the falsehood of voyagers, or their incapacity incapacity for observation, to reft, on such dubious tales, an argument against the most common and facred opinions of mankind\*.

His lordship, in the next place fays with truth, that " the northern nations, to protect 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 nations are of different races, adapted by nature to their refpective climates." ---He ought to have drawn the contrary conclusion, that nature hath given fuch pliancy to the human conflitution as to enable it to adapt itfelf 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 pass either for the acquisition of science, or, for the enlargement of his habitation. And the divine wifdom 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

\* I have fhewn 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 rest of mankind. They have a cuftom, founded on a capricious idea of beauty, of pulling out their hair with tweezers. And hafty and superficial travellers have been deceived, by the apparent smoothness of the chin and body, into the imagination, that they are naturally defitute of this excressence.

+ 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.

The physical cause of this effect ought to have been no fecret to a philosopher who treats of human nature. Not to mention the natural effects of the relaxation of heat; or the bracing of cold, on the nourifhment of the body; it is fufficient to obferve, that the profuse perspiration that takes place in southern latitudes. carries off the oily with the aqueous parts, and renders the conftitution thin; but a frigid climate, by obstructing the evaporation of the oils condenses 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 vast 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 intire 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 fpecies from whites. He fays, "their fkin "is more cool and adapted to their fervid climate. "For a thermometer applied to the body of an Af-"rican, will not indicate the fame degree of heat as "when applied to the body of an European."

The

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 most cooling processes in nature. It becomes a conductor to the internal heat, which it carries off as fait as it is excited, and thereby preferves the body in a moderate temperature. But when perfpiration is obstructed, the retained heat immediately raifes a fever in the fystem. The more profuse therefore the perfpiration is, under the fame degree of external heat, the more temperate will be the warmth of the fkin\*. In fweating, the fkin is fenfibly 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 perfpiration in them more copious and conftant, than in the natives of northern regions who remove thither. Their conftitution not being yet perfectly accommodated to the climate, they do not perfpire fo freely. Being more full of blood, and highly toned, they fuffer, in that fervid climate, the additional heat of an habitual fever. If the fact however be, as his lordship states it, the experiment must have been made on the whites in Africa, before the conftitution

\* 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 modern philosophers as an element, or with the old philosophers as only an internal commotion of parts.

conftitution was properly reduced to fuffer the intenfe heats of that region. For, in this climate, I can affirm from actual experiment, that the fkin of a negroe is not cooler than that of a white perfon. I have applied the thermometer fucceflively 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 refpects as equal as poffible, 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 reafonings, I beg leave to treat a little more briefly.

" Is it poffible, he afks, to account for the low fta-" ture, and little feet, and large head of the Efqui-" maux? or for the low ftature and ugly vifage of the " Laplanders, by the action of cold ?"

I have endeavoured to account for them from the action of cold in conjunction with the state 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 fea-" tures."

I have already explained the reafon of this phænomenon. The temperate climates border upon eternal cold, and civilized on favage fociety, in every quarter of the globe. I have shewn that the forces of thefe

these two powerful causes combined, are fully adequate to account for these different effects.

His lordfhip confeffes, that " it has been lately dif-" covered by the *Pere Hel*, an Hungarian, that the " Laplanders were originally Huns."

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 fome other nations in the fame latitude, I have before affigned the reafon. The state of civilization to which they had arrived, previously to their taking possession of their prefent feats, enabled them to defend themselves with fome fuccess against the impressions of a new climate.

His lordfhip adds, "Zaara is as hot as Guinea, "and Abyffinia is hotter than Monomotapa, and yet "the inhabitants of the former are not fo black as "thofe of the latter." His lordfhip's hiftorical, as well as phyfical knowledge, needs a little emendation. Zaara is not fo hot as Guinea, nor is Abyffinia fo hot

as

as Monomotapa. But if it were equally hot, there are other caufes that produce a wide difference between the figure and complexion of those nations\*. The Abyflinians are civilized, the Monomotapans are favage. The Abyflinians 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 lordfhip proceeds, " there are many inftances " of races of people preferving their original colour " in climates very different from their own." This is 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 lordfhip, 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 existing 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 whose inhabitants are hostile, and others whose inhabitants

\* See page 102 of the Effay.

† This has been fufficiently flewn in the precedng effay.

inhabitants are hospitable to Arangers, and thence concludes a diversity of species. Kindness or aversion to ftrangers 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 hoftile attacks, will be fufpicious 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 hospitality. As well might he have proved, that Europe in the tenth, and in the eighteenth century, was inhabited by different fpecies 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 expofed. 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 enomy in battle. With equal reafon I might conclude that the Geeeks are not the fame fpecies now as when they gave birth to Agefilaus, Miltiades, and Alexander. That the Romans were not the fame species under Cæfar when they conquered, as under Augustulus when they lost a And that, among the Jews, the Effenes, who world. were peaceful hermits in the foreft, were not the fame fpecies with the martial Pharifees who refifted Titus. But the argument is too abfurd to merit even this anfwer.

He fpeaks in the next place of the " cowardice of if the American Indians," of whom he is manifeftly ignorant, ignorant, as a criterion of a diftinct 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 Kaims, 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 lordfhip'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 fnpply " their places with others ftolen from the neighbour-" ing tribes." On this tale I have made the proper comment already. If his lordfhip's opinion were not well known, we fhould fufpect that he reafoned in this weak manner only to expose 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 !

The Japanese, his lordship esteems, on this subject, a valuable example. "The Japanese, fays he, differ " effentially

\* Thefe reafons are well illustrated in Dr. Robertson's history of America,

" effentially from the reft of mankind, becaufe when others would kill their enemies, they kill themfelves through fpite." If I miftake not, a native of this felf-murdering country might find many of the fame tribe under London bridge.

The Japanese 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 misfortunes.

His lordship acknowledges indeed that these arguments are not altogether conclusive; and therefore he proceeds to produce others that he efteems 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 evidence, fays "he, few animals are more affected than men gene-"rally are, not only with change of feafons in the fame climate, but with change of weather in the fame feafon. Can fuch a being be fitted for all climates equally? Impoffible---horfes and horned catte fleep on the bare ground wet or dry without harm, and yet were not made for every climate : can a man then be made for every climate, who is fo much more delicate, that he cannot fleep on wet "ground " ground withou t the hazard of fome mortal difeafe ?" --- 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 greateft variety 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 --- purfue 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 greatest evils that have arisen from change of climate have been occafioned by the prefumption of health that refufes to use the necessary precautions, or the neglect of ignorance that knows not what precautions to ufe\*. But 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

\* 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 diffant climates. But "men, fays his lordfhip, cannot fleep on the "wet ground without hazard of fome mortal dif-"eafe:" and therefore concludes that "they were "not fitted for all climates."---I fuppofe by men he

" not fitted for all climates."--- I fuppofe by men he means Europeans; because 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 circumftance, that they are of a different species from the civilized and polifhed people of Europe .--- If his lordthip had vifited the forefts of America he would have found in this, as well as in other inftances, 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 descendents 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 sky. The Anglo-Americans on the frontiers of the ftates, who acquire their fustenance principally by hunting, enter with facility into all the habits of favages, and endure with equal hardinefs the want of every convenience of polished fociety\*. So

<sup>\*</sup> Not only the hunters, who have been long used to that mode of life, are able to lodge, without injury, on the wet ground, and under all feasons; but the large companies of men, women and children who are continually removing from the interior parts of the United States, to the western countries for the fake of occupying new lands, encamp, every might, 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 center 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. So that this argument, like all the reft, is not only inconclusive to his purpose, but militates against him.

"But the argument I chiefly rely on, fays his lord-"fhip, is that were all men of one fpecies, there never could have exifted, without a miracle, diffe-"rent kinds, fuch as exift at prefent. Giving allowance for every fuppofeable variation of climate, or of other caufes, what can follow but endlefs varieties among individuals, as among tulips in a garden? Inftead of which we find men of different *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, never 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 restecting reader to judge, whether I have not affigned adequate causes of this effect, without the supposed necesfity of recurring to miracle.

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 asks, but endless varieties among in-"dividuals, as among tulips in a garden ?"---I answer, that fuch varieties among individuals are found in S every climate, in every region, in every family. But different climates muft neceffarily produce varieties not aamong *individuals* but among *kinds*. For the fame climate or the fame ftate of fociety, operating uniformly as far as it extends, muft produce a certain *uniformity* in the *kind*, and operating *differently* from every other climate, or every other ftate of fociety, muft render that *kind different* from all others.---" Uniformity, fayshe, " is the offspring of nature never of chance." Could his lordfhip 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? Philofophy is afhamed of fush reafoning in one of her champions !

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He adds, " there is another argument that ap-" pears alfo to have weight, horfes with refpect to " fize, fhape and fpirit differ widely in different cli-" mates. 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 acquire, in time, the perfection of their " kind. Is not this a proof that all horfes are of " one kind ?"

His lordfhip hardly needs an opponent, he reafons fo ftrongly againft himfelf. The fpecies of men, no lefs than that of horfes, changes its appearance by every removal to a new climate, and by every alteration of the ftate of fociety. The prefent nations of Europe are an example in the way of improvement; the Europeans which he acknowledges have degenerated rated 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 intirely effaced.

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 firft families in the ftate of Virginia, who are defcended, in the female line, from the Indian emperor Powhatan. They are in the fourth defcent from the princefs Pocahuntis, a highfpirited and generous woman. And though all their anceftors in Virginia have retained fome characters, more or lefs obvious, of their maternal race, yet, in thefe young gentlemen, they feem to be intirely 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 diffinguifhed the

\* The fame thing, his lordfhip might have remarked, takes place in horfes as in the human race. The properties of two different breeds, will in the first defcent, be equally blended in the offspring. 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 created 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 anfwer is becaufe they could not exift in other climates; or, becaufe they attain the greatest perfection of their nature only in their own. Both these reasons, in the present cafe, are inconfistent with experience. Let us remember " the changes that have been produced by " war and by commerce." Nations have transplanted themfelves to other climes ; yet they continue to exift and flourifh --- foreigners have become, affimilated to the natives. Inftead of attaining, in their primitive abodes, the perfection of their nature, they have improved by migrating to new habitations. The Goths, the Moguls, the Africans have become infinitely meliorated by changing those fkies, 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 leaft, have shewn the precautions attributed to him, by this author, to have been unneceffary. Lord Kaims, having endeavoured voured to demonstrate, in the manner we have feen, the exiftence of original varieties among mankind, proceeds to the conclusion in an equal ftream of cogent reafoning. " There is a remarkable fact, fays " his lordfhip, which confirms the foregoing conjec-" tures : as far back as hiftory goes, the earth was in-" habited by favages divided into many fmall tribes, " each tribe having a language peculiar to itfelf. " Is it not natural then to suppose that these 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. Ac-" cording to that account all men must have spoken " the fame language, viz. that of our first parents. " But what of all feems the most contradictory to that " account is the favage state. Adam, as Mofes in-" forms us, was endued by his Maker, with an emi-" nent degree of knowledge; and he certainly must " have been an excellent preceptor to his children, " and their progeny, among whom he lived feveral " generations. Whence then the degeneracy of all " men to the favage state? To account for that dif-" mal cataftrophe mankind must have fuffered fome " terrible convultion. That terrible convultion is re-" vealed to us in the hiftory of the tower of Babel. " By confounding the language of all men, and fcat-" tering them abroad upon the face of the earth, they " were rendered favages. And to harden them for their new habitations, it was neceffary that they " fhould

( 21 )

" fhould be divided into different kinds, fitted for dif-" ferent climates. Without an immediate change of " bodily conftitution, the builders of Babel could not " poffibly have fubfifted, in the burning region of " Guinea, or in the frozen region of Lapland. If " the common language of men had not been con-" founded upon their attempting the tower of Babel, " I affirm that there never could have been but one " language. Antiquaries conftantly fuppofe a migra-" ting fpirit in the original inhabitants of the earth, " not only without evidence, but contrary to all pro-" bability. Men never defert their connexions nor " their country without neceffity. Fear of enemies, " and of wild beafts as well as the attraction of fociety, " are more than fufficient to reftrain them from wan-" dering; not to mention that favages are peculiarly " fond of their natal foil."

When ignorance pretends to fneer at revelation, and at opinions held facred by mankind, it is too contemptible to provoke refentment, or to merit a retaliation in kind.---When a philofopher defeends to the difhoneft tafk, the moft proper treatment 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 fhew, that the whole foundation of this 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 bodily confti-" tution, fays he, the builders of Babel could not pof-" fibly have fubfifted in the burning region of Gui-" nea, or the frozen region of Lapland." Yet experience teaches us that mankind can exift in every The Europeans, to mention no others, have. climate. armies, or colonies, in all the regions of the globe. And if his lordship believes that the intensity of a frozen, or a torrid climate was fufficient to have deftroyed the builders of Babel, he should have no objection furely, after fuch a declaration, to acknowledge that they might have altered the figure, or changed the Yet his whole object is to combat this complexion. principle. He allows the greater, he denies the lefs effect. But errors or contradictions of this kind. lord Kaims, in his zeal against an obnoxious doctrine, eafily overlooks.

I propofed in the next place to fhew, that the whole foundation on which the reafoning in this paragraph refts is falfe, and only proves his ignorance of human nature in that ftate of fociety of which he fpeaks.---It refts on two principles, 1ft, That the children of Adam or Noah could never have become favage if thefe fathers of the race were the wife men which Mofes reprefents them to be----and 2dly, That there never could have exifted a diverfity of languages. On the other hand, I doubt not of being able to prove that that the favage condition of the greater part of the world was the neceffary confequence of one family, and of the ftate of the earth as Mofes reprefents it immediately after the deluge.---And that out of the favage ftate, 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 lordfhip's ground, who, no doubt, most devoutly and fervently difbelieves all miraculous interposition of the Deity, and shew that, in *the nature of things*, man would become favage, and language would become divided.

Man descended after the deluge into an immense 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 defcendents; and with them would commence the civilized ftate which can be traced without interruption, from the countries which they occupied and the period in which they lived, down to our own country, and to the prefent times .--- But agriculture furnishes too flow and laborious a fubfistence to be grateful to all men. Many, in the midft of a wildernefs 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

foon fpread them over extensive regions, and disperse them widely from one another. Single families, or collections of a few families, feated in feparate diffricts of a country almost boundless, would become independent tribes, and the mode of procuring fubfiftence would render them favage. His lordship supposes that there is an invincible objection against fuch difperfion, 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 defcendents who were ranging the forefts at the diftance of an hundred or a thoufand 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 pleafures 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 fufficient to reftrain 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 at-T tachments

tachments 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?---Destitue of fentiment, or conversation, it is little more than the pleasure that dumb animals feel at the approach of other animals of the fame species. 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 ftate 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 reafonably be imputed to any people. They took poffeffion of a boundlefs foreft, which had a fpeedy and an aftonishing effect on their manners. The Anglo-Americans difcover comparatively little attachment to a native foil. No hereditary poffeffion, no objects of antiquity feize the imagination, and fix it to a certain fpot. The people, migrate without reluctance, to the greateft diftances --- 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 conveniencies. This is more the cafe as you pass from the cultivated lands near the ocean, towards the western frontiers. In

( 26 )

In proportion as the citizens of the flates approach the vicinity of the Indian tribes, fimilarity of fituation produces alfo a great approximation of manners. If his lordship had seen America, he would have seen 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 approaching to favage --- he would have feen the frontiers of all the United States filled with the descendents of Europeans, who have, in a great measure, adopted the manners of the native Indians, along with their mode of procuring fubfiftence --- he would have feen thefe people, as fociety advances upon them from the cities, and the fea-coaft, 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 ftate fuperior to those that refult 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 supposes, to their natal foil -- he would have feen multitudes of the people of thefe United States, change their habitations without regret --- he 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 diftance of an hundred

dred or two hundred leagues .--- But his lordship has not feen them, and he fpeaks of the favage ftate 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 reafons, only from what he has feen in a state of fociety highly improved; and is led to form wrong conclutions from his own habits and prepoffeffions. On his principles, a favage ftate could never have existed, on the supposition 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 dispersion. Every art of agriculture would have been tried, before they would have extended their habitations into the dangerous wildernefs. A civilized community would have arisen round their first habitations. And when they fhould have been compelled by neceffity to enlarge their limits, they would have done it in fociety. The forest 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, instead of being filled with numerous tribes of favages, would have every where prefented to us civilized and polifhed nations. His lordfhip, on this fubject, forever reasons against himfelf. He means to combat the doctrine of one race by the exiftence of the favage ftate; which yet, is a neceffary confequence of that doctrine, and would be certainly precluded on his own principles.

His

His lordship's next error confists in afferting that, " on the fupposition of one race, there never could have exifted a diverfity 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. Diversity of language necessarily springs out of the favage state. The favage state has few wants, and furnishes few ideas that require terms to express them. The habits of folitude and filence incline a favage rarely to fpeak. When he fpeaks it is chiefly in figures, and the fame terms are used for different ideas\*. Speech must, therefore, be extremely narrow, in this rude condition of men. It muft, 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 diverfity in the first elements of speech among all favage nations.

<sup>\*</sup> 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 moft familiar. Their fubftantives confift of a few general names of animals, of vegetables and of fome of the moft obvious parts of the inanimate world, fuch as rocks, rivers, mountains. When they would exprefs a quality, they do it figuratively by applying the name of one fenfible object to another. A deer is a fwift man---a fox is a wife or an artful man ---a bear is a ftrong, a furious, or a courageous man. 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 ufing geftures frequently to fupply the place of the verb, fpeech is reduced, among them, to a narrow compafs.

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 progrefs towards improvement, with few, or with no elements in common. And in 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 impose a language, and extension of Empires may melt down different nations, and different dialects into one mafs. 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 progrefs of civilization, and the mixing of nations by conquest or by commerce, tends to bring it back again towards one ftandard .---His lordship fails in every proof. And this last argument, which he deemed among the ftrongeft, against the hiftory 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 philofopher 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 reafoning. This ought in justice to be imputed to the caufe, and not not to the writer. His talents are univerfally acknowledged. It was for that reafon I chofe to make thefe ftrictures on him, rather than on an author of inferior name. He has probably fhewn the utmost force of that caufe which he has undertaken to defend. If he has failed, it is only becaufe it is incapable of defence. For, to him I may apply the lines which, on another fubject, he applies to Dr. Robertfon.

Defendi possent, etiam hac defensa fuissent.

## THEEND.

