Thus the ape, which philofophers, as well as the valgar, have regarded as a being difficult to define, and whofe nature was at least equivocal, and intermediate between that of man and the animals, is, in fact, nothing but a real brute, endowed with the external mark of humanity, but deprived of thought, and of every faculty which properly conflitutes the human fociets; a brue inferior to many others in his relative powers, and filli more effentially different from the human race by his nature, his temperament, and the time necellary to his education, gefation, growth, and duration of life; that is, by all the real habitudes which conflitute what is called Nature in a particular being.

## The ORANG-OUTANGS, or the PONGO\* and JOCKO+.

W E shall give the history of these two animals under one article; because it is not improbable they belong to the same species. Of

 In the East Indies this animal is called srang-outage; in Lowando, a province of Coogo, page; and, in some parts of the East Indies, according to Kjoep, chap. Ixxxvi. quoted by Linnaus, shawlands.

Homo (ylvestris. Orang-outang; Bostius, p. 84. Satyri (ylvestres. Orang-outang dich); Lowes Arbergan, at et Austalium, Lugd. Bat. apad Vanderan, tab. antepenalt.

Traglodytes. Homo nocturnus; Linn. Syft. p. 33.

Oran-ontan; Beakman's Travuls.

Orangs-octangs; Vosages de Gauthier Schoutten aux Indes

Orientales.

Smitten; Befasaw, Veyage de Gainée, p. 528.

Barris, according to several voyagers, pongo; Battel, Pur-

chafi, &c. + Jacks, enjochs, the names of this animal in Congo; bavis in Guinev, according to Pyrard, p. 369. Nieramberg; p. 179.

Chimpanzee; Scetin's print, 1738.

Man of the wood; Estwards, 6, 213.

Barrys; Barbet's Gaines, p. 101. Quojas marrou; ibid. p. 115. Satyrus Indicus; Tulpii Objero. Med. lib. iii. c. 56.

Homo fylveilris, ourang-outang; Tysa's Anatomy of a Pigmy, p. 108.

5. 108. Simia fatyrus, ecaudata, ferraginea, lacertorum pilis reverfis, natibus teclis: Linn, Sull. Nat. 9. 34.

L'homme

all the apes, they have the greatest refemblance to man; and, confequently, deferve particular attention. We have feen the fmall orang-outang, or jocko, alive, and have preferved its fkin. But of the pongo, or great orang-outang, we can only give the relations of travellers. If these were faithful, if they were not often obfoure, falle, and exaggerated, we could not hefitate in pronouncing it to be a different species from the jocko, a species more perfect, and anproaching nearer to that of man. Bontius, who was chief physician of Batavia, and has left us fome excellent remarks on the natural history of that part of the Indies, fays expressly\*, that he faw, with admiration, fome individuals of this

fpecies walking on two feet, and, among others, a female (of which he gives a figure) who feemed to have a fense of modesty, who covered herfelf with her hand when men appeared of whom the had no acquaintance, who went, groaned, and feemed to want nothing of humanity but the faculty of speech. Linnæus\*, upon the authority of Kjoep, and some other voyagers, tells us, that the orang-outang is not deprived of this faculty; that he thinks, fpeaks, and expresses himself by a kind of hissing words. This author calls him bomo nocturnus. and, at the same time, gives such a description of him, that it is impossible to ascertain whether he is a brute or a man. It may, however, be remarked, that, according to Linnæus, this being, whatever he is, exceeds not the half of the human flature; and, as Bontius takes no notice of the magnitude of his orang-outang, we may prefume that they are the fame. But this orangoutang of Linnæus and Bontius would not be the true kind, which is larger than the tallest man. Neither is he the jocko, which I have

L'homme de bois, fimia anguibas omnibas planis et rotundatis. Mr. Pennant, in his Synopsis of Quadrupeds, p. 96. makes

but one species of the pongo and jocko, of which he gives the following description : Great age with a flat face, and a deformed refemblance of

the human; ears exactly like those of a man; hair on the head longer than on the body; body and limbs covered with reddiffi and flaggy hair; longest hair on the back, thinnest on the fore parts; face and paws fwarthy; buttocks covered with hair.

<sup>.</sup> Quod meretur admirationem, vidi ego aliquot utriufque fexus erecte incedentes imprimis (cujus effigiem hic exhibeo) fatyram femellam tanta verecundia ab ignotis fibi hominibus occulentem, tom quoque faciem manibus (liceat ita dicere). tegentem, ubertimque lacrymantem, gemitus cientem, et cæteros humanos actus exprimentem, ut nihil humani ei deeffe diceres præter loquelam. . . . Nomen ei indunt enrang-sutang, quod hominem filvæ fignificat; Jac. Bont. Hift. Nat. Ind. cap. xxxii. p. 84 ct 8c.

<sup>·</sup> Homo nocturnus. Homo fylvestris Orang-satang Bontii. Corpus album, incessu erectum, nostro dimidio minus, piti albi contortuplicati, oculi orbiculati, iridi pupillaque aurea. Palpebrae antice incumbentes com membrana nictitante. Vifus lateralis, nocturnus. Ætas viginti quinque annorum. Die cacutit, latet; noctu videt, exit, furatur. Loguitur fibilo, cogitat, credit fui canfa fastum tellurem, se aliquando iterum fore imperantem, fi fides peregrinatoribus. . . . Habitat in Javas, Amboing, Ternate fpeluncis; Linn. Syl. Nat. edit, x. p. 24.

feen alive; for, though he was of the fame fize with that described by Linnæus, he differed in every other character. I faw him frequently, and I can affirm, that he neither spoke, nor exprefied himfelf by hiffing, and that he did no. thing which a well trained dog could not perform. Befides, he differs in almost every article from Linnaus's description of the orang-outang. and corresponds better with the fatyrus of the fame author. For these reasons, I suspect the truth of the description of this bomo nocturnus. I even doubt of his existence. It has probably been a white Negro, a Chacrelas\*, whom the voyagers quoted by Linnaus have fuperficially examined and falfely described. For the Chacrelas, like the bomo noclurnus of this author, have white, woolly, frizled hair, red eyes, a feeble voice, &cc. But they are men, and neither hifs. nor are they pigmies of thirty inches high: They think and act like other men, and are also of the

Throwing afide, therefore, this ill described being, and supposing a little exaggeration in the relation of Bontius concerning the modefly of his female orang-outang, there only remains a brute creature, an ape, of which we shall find more pointed information in writers of better credit. Edward Tyfon t, a celebrated English anatomift, who has given an excellent description

both of the external and internal parts of the orang-outang, tell us, that there are two species, and that the one he described is not so large as the other which is called barris \* or baris by travellers, and drill by the British. This barris or drill is the large orang-outang of the East Indies, or the pongo of Guiney. Gaffendi having advanced, upon the authority of a voyager called St. Amand, that, in the island of Java, there was a creature which conflituted the fhade between man and the ape, the fact was ftrenuously denied. To prove it, Peirese produced a letter from M. Noël (Natalis), a phyfician who refided in Africa, from which it appeared t, that large apes were found in Guiney under the denomination of barris, who walk on two legs, have much more gravity and intelligence than the other species, and are extremely defirous of women. Darcos, and afterwards Nieremberg ; and Dapper &, give nearly the fame account of the barris. Battel calls it pongo,

<sup>\*</sup> The baris or barris, which they describe to be much taller than our animal, probably may be what we call a drill: Tyen, Anat, of a Pioner, A. 1.

<sup>+</sup> Sunt in Guinea fimire, barba procera canaque, et pexa propemodum venerabiles; incedant lente, se videntur præ caeteris fapere; maximi funt et barris dicuntur; pollent maxime judicio. femel dumtaxat quidpiam docendi. Vefte induti illico binedes incedunt. Scite ludent filtula, cythara, allifque id genus. . . Forming designe in its patienter menfirus, et mares mulierum

<sup>1</sup> Nieremberg, Hift. Nat. Peregr. lib. ix. cap. 44.

<sup>6</sup> Descript, de l'Afrique, par Dapper, p. 240.

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<sup>\*</sup> See vol. iii. art. Varieties of the Human Species.

<sup>+</sup> The Anatomy of a Pigmy,

Those pongos are never taken alive, because they are fo ftrong, that ten men cannot hold one of them; but yet they take many of their voung ones with poiloned arrows. The young pongo hangeth on his mother's belly, with his ' hands fast clasped about her; so that, when ' the country people kill any of the females, ' they take the young one, which hangeth fast " upon his mother ".' It is from this explicit paffage that I have derived the names bongo and jocko. Battel farther remarks, that, when one of these animal dies, the others cover his body with branches and leaves of trees. Purchas adds in a note, that, in the converfations he had with Battel, he learned that a pongo carried off a young Negro from him, who lived a whole year in the fociety of thefe animals; that, on his return, the Negro faid, that they had never injured him; that they were generally as tall as a man, but much thicker; and that they were nearly double the volume of an ordinary man. Jobson assures us, that, in places frequented by these animals, he saw a kind of habitations composed of interlaced branches of trees, which would at least protect them from the scorching rays of the fun t. ' The apes of Guiney,' fays Bosman t, ' which are called fmitten by the

4 Those

<sup>\*</sup> Purchas's Pilgrims, part ii. p. 982.

<sup>†</sup> Hift. Gen. des Voyages, tom. iii. p. 295. I Voyage de Guinée, p. 258.

' Flemish, are of a yellow colour, and grow to a great fize. I faw with my eyes one which was five feet high. These apes have an ugly appearance, as well as those of another species ' perfectly fimilar in every respect, except that four of them would hardly be as large as one of the former kind. . . . They are capable of being taught almost every thing we choose,' Gauthier Schoutten remarks \*, ' that the anes ealled orang-outangs by the Indians are nearly of the same figure and fize with men, only their back and reins are covered with hair, though there is no hair on the fore part of ' their bodies; that the females have two large breafts; that their vifage is coarfe, their nofe flat, and even funk, and their ears like thole of men; that they are robust and active; that ' they defend themselves against armed men; that they are paffionately fond of women, who cannot pass through the woods, without being ' fuddenly attacked and ravished by these apes.' Dampier, Froger, and other travellers, affure us, that the orang-outangs carry off girls of eight or ten years of age to the tops of trees, and that it is extremely difficult to refcue them. To these testimonies we may add that of M. de la Brosse. who affures us, in his voyage to Angola in the year 1738, that the orang-outangs, which he calls quimpezés, ' endeavour to furprise the Ne-

refles, whom they detain for the purpole of enjoying them, and entertain them plentifully. I knew a Negreis at Loango who remained three years with thefe animals. They grow from fix to feven feet high. They erect huts, and use bludgeons in their own defence. They have flat faces, broad flat nofes, flat ears, fkins clearer than those of Molattoes, long thinly

6 feattered hairs on feveral parts of their bodies, bellies extremely tenfe, and flat heels raifed behind about half an inch. They walk upon two or four feet, at pleafure. We purchased two young ones, a male of fourteen months of

age, and a female of twelve,' &c. We have thus enumerated the most certain facts we could collect concerning the great orangoutang or pongo; and, as magnitude is the chief character by which it differs from the jocko, I perfift in thinking that they are of the same species: For two circumftances are at least possible: 1. The jocko may be a permanent variety, a race much fmaller than that of the pongo. In fact, they both inhabit the fame climate; they live in the fame manner; and, of course, ought to refemble each other in every article, fince they both receive equally the influences of the fame foil and fky. In the human species, have we not an example of a fimilar variety? The Laplander and Fin, though they live under the fame climate, differ nearly as much in flature,

<sup>\*</sup> Voyage de Gaut, Schoutten.

greffes,

and much more in other qualities, than the jocko differs from the great orang-outang. 2. The jocko, or fmall orang-outang, which we have feen alive, as well as those of Tulpius, Tyson. and others which have been brought to Europe. were all, perhaps, young animals, who had acquired only a part of their growth. The one I faw was about two feet and a half high; and the Sieur Nonfoux, to whom it belonged, alfured me that it exceeded not two years of age. On the supposition, therefore, that its growth were proportional to that of man, it might, if it had lived, have arrived at the height of more than five feet. The orang-outang of Tyson was still younger; for it was only about two feet high, and its teeth were not perfectly formed. Those of Tulpius and Edwards were nearly of the fame flature with the one I faw. Hence it is probable, that these young animals, if possessed of liberty in their own climate, would have acquired with age the fame height and dimenfions which travellers have afcribed to the great orang-outang. Of courfe, till better information be received, we must regard these two animals as conflituting but one species.

The orang-outang which I faw, walked always on two feet, even when carrying things of confiderable weight. His air was melanchely, his gait grave, his movements measured, his difpositions gentle, and very different from those of other apes. He had neither the impatience of the Barbary ape, the maliciousness of the baboon, nor the extravagance of the monkeys, It may be alleged, that he had the benefit of instruction; but the other apes, which I shall compare with him, were educated in the fame manner. Signs and words were alone fufficient to make our orang-outang act: But the baboon required a cudgel, and the other apes a whip; for none of them would obey without blows. I have feen this animal prefent his hand to conduct the people who came to vifit him, and walk as gravely along with them as if he had formed a part of the company. I have feen him fit down at table. unfold his towel, wipe his lips, use a spoon or a fork to carry the victuals to his mouth, pour his liquor into a glass, and make it touch that of the person who drank along with him. When invited to take tea, he brought a cup and faucer, placed them on the table, put in fugar, poured out the tea, and allowed it to cool before he drank it. All these actions he performed, without any other infligation than the figns or verbal orders of his mafter, and often of his own accord. He did no injury to any person: He even approached company with circumspection, and prefented himfelf as if he wanted to be careffed. He was very fond of dainties, which every body gave him: And, as his breaft was difeafed, and he was afflicted with a teazing cough, this quantity of fweetmeats undoubtedly

contributed to fhorten his life. He lived one fummer in Paris, and died in London the follow. Ing winter. He eat almost every thing; but preferred ripe and dried fruits to all other kinds of food. He fants a little wine; but fiponas-neouily left it for milk, tea, or other mild liquors. Tulpius ", who gives a good defeription and a figure of one of their animals, that had been preferred to Frederick Henry, Prince of Orange, makes nearly the fame observation with regard to it, as I have already related. Bur, if we will to didinguid the infinition seemiles.

. Erat hie fatyrus qualrupeds, fed ab humana specie quan prze fe fert vocatur indis earang-antang, homo filveftris, mi Africanis quejosocreu: Exprimens longitudine puerum trimum, ut craffitie fexennem; corpore erat nec obelo nec gracili, fed quadrate, habilifiimo tamen ac pernicifiimo. Artebus vero tam firictis et musculis adeo vaftia, ut quidvis et anderet et posset. Anterius undique glaber, at pone hirfutus ac nieris crinibus obiitus. Facies mentiebatur hominem ; fed nires fimme et adunçae rugofam et edentulam anum. Aures vero nil discrepant ab humana forma, uti neque pectus ornatum utrinque mamma prætumida (crat enim fexus forminci). Venter habebat umbilicum profundiorem, et artus, cum superiores tum inferiores, tam exactam cum homine fimilitudinem nt vix ovum ovo videris fimilius. Nec cubito defuit debita commifiura, nee manibus digitorum ordo; nedum pollici figura humana vel cruribus furm vel pedi calcis fulcrum. Que concinna ne decens membrorum forma in cauffa fuit, quod multoties incederet ereftus, neque attolleret minus gravate. quam transferret facile qualecumque gravifimi oneris pendus. Bibiturus prehendebat canthari anfam manu altera; alteram vero vans fundo supponens, abstergebat deinde madorum labiis relictum. -- Eandem dexteritatem observabor cubitum iturus; inclinans caput in pulvinar et corpus firagulis convenienter operiens, &c.; Tulvii, Obitro, Medica, lib, iii. to this animal from the improvement it receives by education, we must compare the facts of tions of travellers who have feen it in a flate of nature, in the full poffession of liberty, and in not twelve months, does not fay that they had been inftructed by the Negro. It appears, on the contrary, that they spontaneously performed most of the actions above recited. "Thefe animals,' he remarks, ' have the in-" flindt of fitting at table like men. They eat · use a knife, a fork, or a spoon, to cut or lay bold of what is put in their plate. They drink wine and other liquors. We carried them 4 aboard. At table, when they wanted any thing, they made themselves be understood to the eabbin-boy: And, when the boy refused to give them what they demanded, they fometimes bes came enraged, feized him by the arm, bit, and threw him down, . . . . The male was feized with fickness on the road. He made himfelf be attended as a human being. He was even

bled twice in the right arm : And, whenever

he found himfelf afterwards in the fame con-

4 dirion, he held out his arm to be bled, as if he

4 knew that he had formerly received benefit

from that operation.'

Henry Gross informs us, vol. i. p. 233. 4 That fome places towards the hills are covered ' with immense impenetrable forests, which afford a thelter for wild beafts of all forts. But in that which forms the inland boundary of the 4 Carnatic Rajah's dominions, there is one fingular species of creatures, of which I had heard 4 much in India, and the truth of which the 4 following fact, that happened fome time before 6 my arrival there, may ferve for an atteftation.

' Vancaiee, a merchant of that country, and an inhabitant on the fea-coaft, fent up to Bombay to the then governour of it, Mr. Horne, a couple of those creatures before mentioned, as f a prefent, by a coasting vessel, of which one ' Captain Boag was the mafter, and the make of which, according to his description, and that of others, was as follows:

' They were fearcely two feet high, walked erect, and had perfectly a human form. They f were of a fallow white, without any hair, except in those parts that it is customary for many s kind to have it. By their melancholy, they feemed to have a rational fense of their captivity, and had many of the human actions, ' They made their bed very orderly in the cage in which they were fent up, and, on being viewed, would endeavour to conceal, with their hands, those parts that modesty forbids manifelting. The joints of their knees were not f re-enre-entering, like those of monkeys, but faliant, f like those of men; a circumstance they have ' (if I mistake not), in common with the orangoutangs in the eaftern parts of India, in Sumatra, Java, and the spice-islands, of which thefe feem to be the diminutives, though with f nearer approaches of refemblance to the human fpecies. But, though the navigation from the 6 Carnatic coast to Bombay is of a very short run, of not above fix or feven degrees, whether the fea air did not agree with them, or that they could not brook their confinement, or that ! Captain Boag had not properly confulted their \* provisions, the female fickening first, died; and the male giving all the demonstrations of grief, f feemed to take it to heart fo, that he refused to eat, and, in two days after, followed her. 1 The Captain, on his return to Bombay, reporting this to the governour, was by him afked, What he had done with the bodies? He faid he had flung them over-board. Being further afked, why he did not keep them in spirits? he replied bluntly, that he did not think of it. ! Upon this, the governour wrote afresh to Vans cajee, and defired him to procure another couple, at any rate, as he should grudge no expence to be mafter of fuch a curiofity. Vans cajee's answer was, he should very willingly oblige him, but that he was afraid it would not be in his power: That these creatures came from a forest about seventy leagues up the country, they were fo exquifitely cunning and fly, that ' this fearcely happened once in a century.'

Francis Pyrard \* relates, ' That, in the province of Sierra Leona, there is a species of 4 animals called baris, who are ftrong and well ' limbed, and fo industrious, that, when proper-

· ly trained and fed, they work like fervants: ' that they generally walk on the two hind feet; ' that they pound any fubftances in a mortar;

that they go to bring water from the river in fmall pitchers, which they carry full on their

heads. But, when they arrive at the door, if 4 the pitchers are not foon taken off, they allow

them to fall; and, when they perceive the 6 pitcher overturned and broken, they weep and Iament.' Father Jarric, quoted by Nieremberg t, fays the fame thing, nearly in the fame

terms. With regard to the education of these animals, the testimony of Schoutten I accords with that of Pyrard. 'They are taken,' he remarks, ' with fnares, taught to walk on their ' hind feet, and to use their fore feet as hands in

s performing different operations, as rinfing ' glaffes, carrying drink round the company, ' turning afpit,' &c. ' I faw, at Java,' fays Guat |,

\* Voyage de François Pyrard, tom, ii, p. 221. + Euf, Nieremberg, Hift, Nat. Peregrin, lib, ix. cap. 45. t Voyages de Gaut. Schoutten aux Indes Orientales.

H Voyages de Fr. le Guat, tom. ii. p. c6.

a very

a very extraordinary ape. It was a female. She was very tall, and often walked erect on her ' hind feet. On these occasions, she concealed ' with her hands the parts which diftinguish the 4 fex. Except the eye-brows, there was no hair on her face, which pretty much refembled the ' grotesque female faces I saw among the Hotten-6 tots at the Cape. She made her bed very neat-6 ly every day, lay upon her fide, and covered herfelf with the bed-clothes, . . . When her 6 head ached, she bound it up with a handkerchief; and it was amufing to fee her thus 6 hooded in bed. I could relate many other 6 little articles which appeared to be extremely 6 fingular. But I admired them not fo much as the multitude; because, as I knew the design of bringing her to Europe to be exhibited as a 4 flew, I was inclined to think that she had been 4 taught many of these monkey-tricks, which 6 the people confidered as being natural to the animal. She died in our ship, about the lati-\* tude of the Cape of Good Hope. The figure of this ape had a very great refemblance to that of man,' &c. Gemelli Carreri tells us, that he faw one of these apes, which cried like an infant, walked upon its hind feet, and carried a matt under his arm to lie down and fleep upon. These apes, he adds, appear, in some respects, to have more fagacity than men: For, when the fruits on the mountains are exhausted, they come down to the fea-coafts, where they feed upon crabs, oyfters, and other shell-sliftnes. There is a species of oyther called stackow, which weights feveral pounds, and commonly lies open on the shore. The ape, when he wants to eat one of them, being afraid left it should close on his paw, puts a stone into the shell, which prevents it from shutting, and then eats the oyster at his ease.

from flutting, and then eats the oylter at his eafs.

'The ages along the banks of the river Gambia,' Bays Froger, 'are larger and more mischia,' Bays Froger, 'are larger and more mischievous than in any other part of Africa: The Negroes dread them, and cannot travel alone in the country, without running the hazard of being attacked by these animals, who often present them with a sitick, and force them to fight. Have heard the Portuguese bay, that they have frequently seen them hold in young girls, about seven or eight years old, into trees, and that they could not be wrested from them without a great deal of difficulty. The most years of the growing and the services on inhabit their country, and that they do not speak for freat of being and that they do not speak for freat of being and that they country.

We might dispense,' another traveller \* remarks, ' with seeing a number of apes at Ma-' cacar; because a rencounter with them is often fatal. It is necessary to be always well armed to defend ourselves against their attacks....

compelled to work.'

They have no tail, and walk always erect on their two hind feet, like men.

These are nearly all the facts, concerning this animal, which have been related by voyagers who are least credulous, and deferve most credit. I have quoted the passages entire, because every article is important in the history of a brute which has fo great a refemblance to man. And, that we may be enabled to afcertain the nature of this animal with the greater precision, we shall now mark the differences and conformities which make him approach or recede from the human species. He differs from man externally by the flatness of his nose, by the shortness of his front, and by his chin, which is not elevated at the bafe. His ears are proportionally too large, his eyes too near each other, and the distance between his nofe and mouth is too great. Thefe are the only differences between the face of an orangoutang and that of a man. With regard to the body and members, the thighs are proportionally too fhort, the arms too long, the fingers too fmall, the palm of the hands too long and narrow, and the feet rather refemble hands than the human foot. The male organs of generation differ not from those of man, except that the prepuce has no franum. The female organs are extremely fimilar to those of a woman.

The orang-outang differs internally from the human species in the number of ribs: Man has only twelve; but the orang-outang has thirteen.

Descript, Historique du Royaume de Macacar, p. 51.

<sup>&#</sup>x27; They

The vertebræ of the neck are also shorter the bones of the pelvis narrow, the buttocks flatter, and the orbits of the eyes funk deener. He has no fpinal process on the first vertebra of the neck. The kidneys are rounder than those of man, and the ureters have a different figure, as well as the bladder and gall-bladder. which are narrower and longer than in the human species. All the other parts of the body. head, and members, both external and internal. fo perfectly refemble those of man, that we cannot make the comparison without being aftonished that such a similarity in structure and orcanization should not produce the same effects. The tongue, and all the organs of speech, for example, are the fame as in man; and yet the orang-outang enjoys not the faculty of fpeaking; the brain has the fame figure and proportions; and yet he possesses not the power of thinking. Can there be a more evident proof than is exhibited in the orang-outang, that matter alone, though perfectly organized, can produce neither language nor thought, unless it be animated by a fuperior principle? Man and the orang-outang are the only animals who have buttocks and calls of the legs, and who, of courfe, are formed for walking erect; the only animals who have a broad cheft, flat shoulders, and vertebre of the fame ftructure; and the only animals whose brain, heart, lungs, liver, foleen, flomach, and inteflines are perfectly fiTHE PONGO AND JOCKO.

milar, and who have an appendix vermiformis or blind-gut. In fine, the orang-outang has a greater refemblance to man than even to the baboons or monkeys, not only in all the parts we have mentioned, but in the largeness of the face, the figure of the cranium, of the jaws, of the teeth, and of the other bones of the head and face; in the thickness of the fingers and thumb, the figure of the nails, and the number of vertebræ; and, laftly, in the conformity of the articulations, the magnitude and figure of the rotula, sternum, &c. Hence, as there is a greater fimilarity between this animal and man than between those creatures which resemble him most, as the Barbary ape, the baboon. and monkey, who have all been defigned by the general name of apes, the Indians are to be excused for affociating him with the human species, under the denomination of orangoutang, or wild man. As fome of the facts we have related may appear fufpicious to those who never faw this animal, we shall support them by the authority of two celebrated anatomists. Tyfon # and Couper diffected him

<sup>\*</sup> The orang-cottang has a greater referblance to man thin the apec or monkeys; because, i. The bairs on his fload-dars are directed downward, and those of the arm symmetric. His face is broader and flaster than that of the thin to a first proper of his ear has a greater referblance to that of man, except the critiaginous part, which it thin, as in the apec. 4. His fingers are proportionally chicker than bute of VM. VM. VM.

the apes. 5. He is in every article formed for walking ered. which is by no means the cafe with the apes and monkeys. 6. He has thicker buttocks than all the other apes. 7. He has calfs to his legs. 8. His breatt and shoulders are broader than those of the apes. q. His heel is longer. 10. He has a cellular membrane, placed, as in man, under the fkin. 11. His peritonseem is entire, and not pierced or lengthened, as it is in the ages. 12. His intellines are longer than those of the apes. 13. The intestinal canal is of different diameters. as in man, and not equal or nearly equal, as in the aper-14. His excum has a vermicular appendix, as in man; bee this appendix is wanting in all the other apes: Beades, the neck of the colon is not fo long as that of the apes. 16. The infertions of the biliary and pancreatic ducts have but one common crifice in man and the orang-outang; but, in the monkeys, these insertions are two inches afunder. 16. The colon is longer than that of the apes. 17. The liver is not divided lato lobes, as in the apes, but entire, as in man. 18. The biliary veffels are the fame as in man, 19. The fpleen, and zo, the panereas, are the fame. 21. The number of lobes the diaphragm, as in man. 23. The cone of the heart is blunter than in the apes, 24. He has no pouches at the bottom of the cheeks, as the other apes and monkeys have. 25. His brain is larger than that of the apes, and exactly formed like the haman brain. 26. The cranium is rounder and double the fize of that of the monkeys. 27. All the febeset called effa triguetra Wormland are found in the lambdeld fature, which is not the cafe in the other apes or monkeys. 23. He has the es cribriforms and the criffa galli, which are wanting in the monkeys. 29. He has the fella conina exactly as in man; but, in the apes and monkeys, this part is more

the fame as in man; but it is wanting in the apes and

monkeys. 3r. The temporal bones, and those called offe bree-

statis, are the fame as in man; but, in the apes and monkeys,

made between the different parts of his body with that of man. I have translated this article from

these hones are of a different form. \$2. The os zygomaticus is fmall; but it is large in the apes and monkeys. 33. The teeth, and particularly the dog-teeth and grinders, are more transverse processes of the vertebrae of the neck, and the fixth and feventh vertebre, have a greater refemblance to those of man than to those of the apes and monkeys. 35. The vertebree of the neck are not perforated, as in the apes, for the transmission of nerves, but plain and entire, as in man-36. The vertebre of the back and their processes are the fame as in man; and, in the lower vertebree, there are only two inferior processes; but, in the apes, there are four, 27. As in man, there are only five lumbar vertebre; but, in the monkeys, there are fix or feven. 38. The fpinal processes of the lumbar vertebræ are flraight, as in man, to. The of focuse is composed of five vertebrae, as in man; but, in the apes and monkeys, it confilts only of three. 40. The coccix is composed of four bones, as in man, and these bones are not perforated; but, in the apes and monkeys, the coccix is composed of a greater number of bones, which are all perforsted 41. In the orang outang, there are only feven true ribs (coffee were), and the extremities of the false ribs (coffee woley) are all cartilaginous, and articulated with the bodies of the vertebra; but, in the apes and monkeys, there are eight true ribs, and the extremities of the falle ribs are offcous, and their articulations are placed in the interflices between the vertebrae, 42. The flernum of the orang-outang is as broad . as that of man, and not narrow, as in the monkeys. 43. The bones of the four fingers are thicker than those of the anes, 44. The thigh bone is perfectly fimilar to that of man, At. The rotula is round, and not long, fingle, and not double. as it is in the apes. 46. The heel, the torfus, and metatorfus, are the fame as those of man. 47. The middle toe is not fo long as in the apes. 48. The obliques inferior capitis, periformis, and bices rewer's muscles, are fimilar to those of man; but they are different in the apes and monkeys, &c.

the

the English, that the reader may be enabled to form a judgment of the almost entire refem-

The orang-outang differs from the human species more than from the apes and monkeys in the following articles. 1. The thumb is proportionally fmaller than that of man; but it is larger than that of the other apes. 2. The palm of the hand is longer and narrower than in man. 3. He differs from man and approaches the apes by the length of his toes. 4. He differs from man by having the large toe of the foot removed nearly to the distance of an inch from the next one, and he should be rather considered as a four-handed animal than a quadruped. 5. His thighs are shorter than those of man; and, 6. his arms are longer. 7. The testicles are not pendulons. 8. The epiploon is larger than in man. o. The gall-bladder is longer and narrower. 10. The kidneys are rounder than in man; and the ureters are also different. 11. The bladder is longer. 12. He has no frame to the prepuce. 13. The bone in the orbit of the eye is fank deeper. 14. He wants the two cavities below the fella tarcica. 15. The maffoid and flyloid proceffes are extremely fmall. 16. The bones of the note are flat. 17. The vertebra of the neck are thort, as in the apes, flat before and not round, and their spinal processes are not forked, as in man. 18. He has no foinal process in the first wertebra of the neck. 19. He has thirteen ribs on each fide, and man has only twelve. 20. The of ilia are perfectly fimilar to those of the apes, being longer, narrower, and less concave than in man. 21. The following muscles are found in man, and are wanting in the orang-cottang, Occipitales, frontales, dilatatores alarum nafi, fex elevatores labit superioris, interspinales colli, glusari minimi, extense digitorum pedis brevis, et transversalis pedis. 22. The muscles which appear not in the orang-outang, and are fometimes found in man, are those called pyramidales, care majoulaja quadrata, the long tendon and fleshy body of the palmaris, the attelless and retrabens assiculant. 23. The orang-outing, has the eleverse mufcles of the clavicles like those of the apes, and different from those of man. 24. The following are the mascles by which the orang-outang resembles the apes, and differs THE PONGO AND JOCKO. 101

blance between this animal and the human fpecies. I fhall only remark, for the better underflanding of this note, that the Englith are not confined, like the French, to a fingle name to denote apts. Like the Greeks, they have two denominations, the one for the apes without tails, which they call aper \(^6\), and the other for the apes with tails, which they call monkey.\(^1\) The apes of Tylon could be no other than those which we denominate pilecus or pigney, and the cymocepulate or Barbary ape. I should likewise remark, that this author gives fome refemblances and differences which are not fufficiently accurate.

1. Tylon makes it peculiar to man and the orang-outang, to have the hair on the shoulders directed downward, and that of the arms upward. The hair of most animals, it is true, is directed backward or downward; but there are some exceptions. The floth and the least anteeater have the hair of their anterior parts directed backward, and that of the crupper and reins dicreted forward. Hence this character is of me.

differs from man: Longus celli, pelleralis, latiflowa derfi, glutatus saccious et medius, pfias magnas et parvus, iliacus internus, et gaftracensius internus. 25. He differs from man in the figure of the delteide, premater radii terre, et exterior pollicis levesis. Ana-

tomy of the orang-outing by Tylon.

Simize dividentur in cauda carentes, que fimize fimpliciter dicentur; et casodatas, que cercopitheci appellantur; que prioris generis funt Anglice apre dicentur; que poderioris mandejs; Rajii Sentof, Pand. 8, 140.

2. In the passage quoted from Tyson, I took no notice of the four first differences; because they are either too flight, or ill founded. The first is the difference of stature, which is an uncertain and gratuitous character, especially as the author acknowledges that his animal was very young. The fecond, third, and fourth are derived from the form of the nofe, the quantity of hair, and other minute relations. I retrenched feveral other differences; for example, the twenty-first, drawn from the number of teeth. It is certain that both the human species and this animal have an equal number of teeth. If the latter had only twenty-eight, as our author remarks, it was owing to his youth; and, it is well known, that man, when young, has not a greater number.

3. The feventh difference is also very equivocal: The tefficles of children are fituated very high; and this animal, being young, ought not

to have had them pendulous.

4. The forty-eighth mark of refemblance, and the twenty-first, twenty-feond, twenty-shird, twenty-fourth, and twenty-first marks of difference, are derived from the figure or preferes of certain mufcles, which, as they vary in most individuals of the human species, ought not to be regarded as elfential characters.

5. All the refemblances and differences drawn from

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from parts too minute, as the proceedes of the vertebra, or derived from the polition and magnitude of certain parts, thould only be confidered as accelfory characters; to that the whole detail of Tyfon's table may be reduced to the refemblances and differences we have pointed

6. I shall mention some characters of a more general nature, fome of which have been omirted by Tyfon, and others imperfectly related. 1. Of all the apes, baboons, and monkeys, the orang-outang alone wants those pouches within the cheeks, into which they put their food, before they fwallow it; for the infide of his mouth is the same as in man. 2. The gibbon, the Barbary ape, all the baboons, and all the monkeys, except the douc, have flat buttocks, with callofities on them. The orang-outang alone has plump buttocks without callofities; The doug likewife has no callofities; but his buttocks are flat and covered with hair; fo that; in this respect, the douc forms the shade between the orang-outang and the monkeys. 3. The orang-outang alone has calfs of the legs and fleshy buttocks. This fingle character thows that he is best formed for walking erect; only his toes are very long, and his heel refts with more difficulty on the ground than that of man, He runs with more ease than he walks; and, to enable him to walk eafily and long, he would require artificial heels higher than those of our

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fines. 4. Though the orang-outing has thirteen rils, and man but twelve, this difference does not make him approach nearer to the baboons or monkeys than it removes him from man; because the number of ribs varies in most of those species, some of them having twelve, orthers eleven, others ten, &c. Hence the only difference between the body of this animal and that of man are reduced to two, namely, the figure of the bones of the pelvis, and the conformation of the feet. These are the only parawerthy of confideration, by which they paraoutage, has a greater refemblance to the other areas than the last or man.

From this examination, which I have made with all the exactness I was capable of, a judgment may be formed concerning the orangoutang. If there were a fcale by which we could descend from human nature to that of the brutes, and if the effence of this nature confifted entirely in the form of the body, and depended on its organization, the orang-outang would approach nearer to man than any other animal. Placed in the fecond rank of beings, he would make the other animals feel his superiority, and oblige them to obey him. If the principle of imitation, by which he feems to mimic human actions, were a refult of thought, this ape would be still farther removed from the brutes, and have a greater affinity to man. But, as we formerly remarked, the interval which feparates



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them is immenfe; and the refemblance in figure and organization, and the movements of imitation which feem to refult from these similarities, neither make him approach the nature of man, nor elevate him above that of the brutes.

## Distinctive Characters of this Species.

The orang-outing has no pouches within his checks, no tail, and no calloities on this but-tocks; which laft are plump and flefly. All his teeth are finilir to tube of man. His face is flar, naked, and tawny. His ears, hands, feet, breaft, and belly, are likewife maked. The hair of his head defeends on both temples in the form of treffes. He has hair on his back and loins, but in fmall quantities. He is five or fix feet high, and walls always ered on his two feet. We have not been able to afcertain whether the females, like women, are fullyeft to periodical courfes; but analogy renders this matter almoft unquefficiansle.