## The TWO-TOED\* and THREE.

THESE two animals have been denominated floths, on account of the flowness of their movements, and the difficulty with which they walk. Though they resemble each other

"The folials have no centing earth in either jave but thy have canning treth and guidness. The fore legs are much ingur as much independent of the properties of the properties of the properties good, earth files that human, judge fatter on the head, two long clause on the fore foret, and three of the hind. The last in on the body is long and rough; in form, of a polar red above, contrast the hind. The last into the body is long and rough; in form, of a polar red above, contrast the holes, and is clauser, of a pollution without the body and in clauser in deven in the contrast of the c

Usaw, the name of this animal in Maragnon. P. d'Abbeville fays, that there are two kinds, the one about the faze of a hare, and the other about twice as large; Miffers as Maragnes, p.

252.
Tardigradus Ceilonicus catulus; Sebs, toes. i. p. 54. tab. 331
fg. 4. — Tardigradus Ceilonicus fumina; 1d. ib. tab. 34.
Tardigradus pedibus anticis didactyris; podicis tridactyris;

Le Parelloux de Ceilan; Brifin. Quad. p. 22.

Bradypus didactylus, manibus didactylis cauda nulla; Liss-

Sigf. Nat. p. 51.

† The three-tord floth has a blunt black nofe, a little lengthened, very small external ears, and eyes small, black, and heavy. From the corner of each eye, there is a dusty

impossible net to recognife them as very diftion tipecies. The unua, or two-tood doth, has no stil, and only two claws on the fore feet: The ai, or three-coed doth, has a tail, and three claws on all the feet. The muzzle of the former is longer, the front more cleared, and the ears more apparent, than those of the latter. Their hair is allo very different. The functures line. The closes of the face and shown in a dirry white.

in many respects, they differ, both externally and internally, by characters so marked, that it is

line. The colour of the face and throat is a dirty white. I me hair on the limbs and body is long, very outers, and of a cineroon brown colour. The tail is thore, being a mere thomp! The legs are thick, long, and ankwardly placed. The face is naked. There are three toes, and three very long class on each foot. The length of that in the British mostern is twelve inches; but it grown to the face of a middle fixed fox; Pennou'l Simple, 22 and, p. 319.

Ai, the Brafilian name of this animal, taken from its plaintive cry, a, i, which it often repeats; Hay, according to Lery; and Haw or Hawsh, according to Therot. The Perille ligers of Oricedo, and the Haw of Nierembrig.

Arctopithecus; Gejaer. Quad. p. 869. Icov. Quad. p. 96: Ignavus; Clof. Exot. p. 110. 372. Sloth; Rail Speopl. Quad. p. 245. Edwards's Gleonings, pl. 310

Ignavus Americanus, rifum fletu mifcens; Kitin. Quad. p. 43. Tardigradus pedibus anticis et posticis tridactylis; Brigiw.

Ai, feu tardigradus gracilis Americanus; Seba, ton. 1. p. 53.

Ouakare, Pareffeux; Barrière Hift. Fr. Equienx. p. 154. Bradypus tridactylus, pedibus tridactylis, cauda brevi; Linn. Spt. Nat. p. 50.

Bigritia fire Hants Nierowb. p. 163.

Al, five ignavus ; Marcgrav. Hift. Not. Brofil. p. 221.

and fituation of fome parts of their vifcera are likewife different, But the most remarkable disfinction is derived from this fingular circum. flance, that the unau has forty-fix ribs, and the ai only twenty-eight, which shows them to be fpecies very remote from each other. This number of ribs, in the body of an animal fo fhort is an excess or error of Nature; for no animal however large, has fuch a number of ribs : The elephant has only forty, the horse thirty-fix. the badger thirty, the dog twenty-fix, man twenty-four, &c. This difference in the ftructure of the floths indicates a greater diffance between these two species than between the dop and cat, which have both the fame number of ribs; for external differences are nothing when compared to those which are internal: The former may be regarded as causes, and the latter as effects only. The interior frame of animated beings is the foundation of Nature's plan: it is the conflituent form, and the origin of all figure: But the external parts are only the furface or drapery. How often have we not found, in the course of our comparative examination of animals, that a very different external appearance covered internal parts perfectly fimilar; and that, on the contrary, the flighteft internal diffinction produced great external differences, and changed the natural dispositions, powers, and qualities of the animal? How many

animals are armed, covered, and adorned with exerefcent parts, whose external structure corresponds exactly with others which are totally deprived of fuch appendages? But this is not a proper place for fuch nice disquisitions. We shall only remark, that, in proportion as Nature is vivacious, active, and exalted in the monkey bind the is flow, reftrained, and fettered in the floths. From a defect in their conformation. the mifery of these animals is not more conspicuous than their flowness. They have no cutting teeth; the eyes are obscured with hair : the chops are heavy and thick; the hair is flat. and refembles withered herbs; the thighs are ill jointed to the haunches; the legs are too fhort, ill turned, and terminated ftill worfe: Their feet have no foles, and no toes which move feparately, but only two or three claws difproportionally long, and bended downward, which move together, and are more hurtful to their walking, than advantageous in affifting them to climb. Slowness, habitual pain, and flupidity, are the refults of this strange and bungled conformation. The floths have no weapons either offensive or defensive. They are furnished with no means of fafety; for they can neither fly nor dig the earth. Confined to a fmall fpace, or to the tree under which they are brought forth, they are prisoners in the midft of space, and cannot move the length of one fathom in an hour \*. They drag themselves up a tree with much labour and pain. Their cry and interrunted accents they dare only utter during the

\* Perillo ligero, five canicula agilis, animal est omnium conviderim ignavistimum; nam adeo lente movetur, ut ad conficies, to overake him; a tortoife is fufficient; Definirebole, time iii. s. 101. Nan, This is another exaggeration. They require lengue; Higt. de l'Occatque, par Gamilla, tem. ii. p. 13. Neta,

night. All these circumstances announce the mifery of the floths, and recall to our minds those defective monsters, those imperfect sketches of Nature, which, being hardly endowed with the faculty of existence, could not sublist for any length of time, and have accordingly been ftruck out of the lift of beings. If the regions inhalong occupied by men and the larger animals, times: They would have been annihilated, as must happen in some future period. We formerly remarked, that every thing that possibly could be, really did exift; of which the floths are a firiking example. They conflitute the laft term of existence in the order of animals endowed with flesh and blood. One other defect added to the number would have totally prevented their existence. To regard those bungled fretches as beings equally perfect with others, to call in the aid of final causes to account for fuch disproportioned productions, and to make Nature as brilliant in these as in her most beautiful animals, is to view her through a narrow tube, and to substitute our own fancies for her

Why should not some animals be created for mifery, fince, in the human species, the greatest number of individuals are devoted to pain from the moment of their existence? Evil, it is true,

proceeds more from ourfelves than from Nature For a fingle person who is unhappy because he was born feeble or deformed, there are millions rendered miferable by the oppression of their fig. periors. The animals, in general, are more happy because the species have nothing to fear from individuals: To them there is but one fource of evil; to man there are two. Moral evil, of which he himself is the fountain, has accumulated into an immense ocean, which covers and afflicts the whole furface of the earth. Phylical evil, on the contrary, is reftrained within very narrow bounds: It feldom appears alone; for it is always accompanied with an equal, if not a fuperior good. Can happiness be denied to animals, when they enjoy freedom, have the faculty of procuring fublishence with ease, and possess more health, and organs capable of affording greater pleasure than those of the human species? Now, the generality of animals are most liberally endowed with all these sources of enjoyment, The degraded species of floths are perhaps the only creatures to whom Nature has been unkind, and

who exhibit to us the picture of innate mifery. Let us take a closer view of the condition of these creatures. By the want of teeth they can neither feize prey, nor feed upon flesh or herbase. Reduced to the necessity of living upon leaves and wild fruits, they confume much time in trailing their bodies to the foot of a tree, and

fill more in climbing to the branches \*; and, during this flow and melancholy exercise, which fometimes lafts feveral days, they are obliged to fuffer the most pressing hunger. When arrived upon a tree, they never descend. They cling to

. It is alledged by the natives, that this animal lives folely make him move quicker; Higt. des Indes, par Maffe, p. 71. and bone before it is finished. They never abandon a tree till they have made it as bare as it can be in the middle of winter; Dantier's Voyage .- They climb trees, but fo flowly, that they are attempt to fly. If a long poll is prefented to the floth, he begins arrives at the top he remains there, without taking the trouble of defeending; Voyage de Cayenne, par Binet, p. 341 .- The floths have four legs, which they employ only in climbing: When perched upon a tree, they never quit it till they have eat the whole leaves. They then defcend, and mount another, the leaves of which they devour in the fame manner. We placed this animal to the fcuttle, which a monkey would have accomplished in half a minute. One would imagine that it moves by a fpring, like the pendulum of a clock; Travels by Woods Rogers.

the banches, and devour fraceflively the leave of every twig. They pass feveral weeks in this fituation, without receiving any dishe. When they have rendered the tree entirely naked, they fill remain; because they cannot defend. In fine, when the pressure of hunger becomes singried to the dread of danger or death, being us, able to defend, they allow themselves to tumble down. Been an inaminated made; for their sist and insolve limbs have not time to extend these fews in order to break the fall.

When on the ground, they are at the mercy of all their enemies. As their flesh is not ablelutely bad, both men and rapacious animals go in quest of these animals. It appears that they do not multiply fast, or at least, if they produce frequently, it must be in small numbers at a time; for they have only two paps. Every circum. flance, therefore, concurs to defiroy them; and it is extremely difficult for the species to support itself. But, though flow, awkward, and almost incapable of motion, they are obflinate, firong, and tenacious of life. They can live very long without victuals of any kind \*. They are covered with thick, dry hair; and, being incapable of exercife, they lofe little by perspiration; and, though their food be meager, they fatten by renofe. Though they have no horns nor hoofs, por cutting teeth in the under jaw, yet they belong to the ruminating tribes, and have feveral flomachs. Hence the quality of their food may he compensated by the quantity they take at a time. What is ftill more fingular, inftead of very long intestines, like other ruminating animals, their guts are very fhort and finall, like those of the carnivorous kind. This contrast exhibits the ambiguity of Nature. The floths are unquestionably ruminating animals: They have four flomachs; and yet they want every other character, both internal and external, which generally belongs to animals of this class. There is ftill another fingularity in the conformation of the floths : Instead of three diffinct apertures for the discharge of urine and excrements, and for the purposes of generation, these animals have but one, which terminates in a common canal, as in birds.

Moreover, if the mifery refulting from a defect of fentiment be not the world of all, the pain endured by the floths, though very apparent, feems not to be real; for their fenfations appear to be blant. Their calamitous air, their dall aiped, and their reception of blows without emotion, announce their extreme infentibility. This bluntness of fenfation is farther demonstrated, by their not dying infantly when

<sup>•</sup> I had a prefent of a living four, which I kept twenty-fix days, during which he neither cat nor drank; Singular de la France dat, ter Theory, A. co.

their hearts and howels are entirely on or Dió, who made this cruel experiment <sup>9</sup>, tells un, that the heart, after being feparated from the body, best in a lively manuer for half an hour and that the aimla continued to central fit legs flowly, as commonly happens during flees. From their facts, this quadraped feems to approach not only the turtle, but the other regula which have no distinct centre of ferafrion. All these beings may be faild to be miferable, but me unhappy: Nature, even in her much regledal productions, always appears more in the cluster of a parent than of a fleenowher.

Thefe two animals are peculiar to the fouther regions of the New Continent, and are no where to be found in the Old. We formerly remarked, that the editor of Seba's cabinet was deceived when he calls the two-toed floth, or unau, the floth of Ceylon. This error, which has been

adopted

adopted by Klein, Linnæus, and Briffon, is now more evident than it was formerly. The Marquis de Montmirait has a live unau, which was transmitted to him from Surinam : Those we have in the Royal Cabinet were brought from the fame place and from Guiana : and I am nerfunded that both species exist through the whole deferts of America, from Brafil \* to Mexico. Bur, as they have never frequented the northern regions, they could not pass from the one Continent to the other. If these animals have sometimes been feen in the East Indies, or on the coast of Africa, it is certain that they must have been transported thither. They cannot endure cold: and they likewife dread rain. The alternation of moisture and dryness changes their fur, which has more the appearance of ill dreffed

hemp than of, wood or hair.

I shall finith its article with fome obfervations communicated to me by the Marquis de Montmital, concerning an unau, or two-cod floth, which he fed three years in his menagery: 'The 'hair of the unau is much fofter than that of 'the air... All that has been faid by travellers 'concerning the exceptive flowness of, the floths' 'floudd, probably; the 'applied only to the air,' or three-tood/fpccies. 'The unau, though very 'havve, and o'an extremely awkward egit,' havve, and o'an extremely awkward egit,' havve, and o'an extremely awkward egit, have, and o'an extremely awkward egit, have, and o'an extremely awkward egit,

wards, came from the Bay of Honduras; and Ullon fays, that it is found in the environs of Porto-bello.

' mounted and descended the highest tree several ' times in a day. It is in the evening and dur-'ing the night that he was most active, which " made me fuspect that he faw very ill in the day. and that his eyes were of no use to him but in the dark. I purchased this animal at Amstera dam. It was fed with fea bifcuit; and I was told, that, during the verdure of the trees, it would require nothing but leaves. We gave him leaves, which he eat freely, when they were tender; but, as foon as they began to dry, or ' were pierced by caterpillars, he refused them. ' During the three years that I kept him alive in " my menagery, his ordinary food was bread. apples, and roots; and his drink was milk. 4 He always laid hold, though with difficulty, of what he wanted to eat, with his fore paws: and the difficulty increased in proportion to the ' largeness of the morfel. He seldom cried: ' his cry is fhort, and he never repeats it twice. without a confiderable interval. This cry. though plaintive, has no refemblance to that of the ai, if it be true that ai is the found of that 'animal's voice. The most natural fituation of the unau, and which he prefers to all others, ' is hanging on a branch, with his body turned ' downward. He fometimes fleeps in this po-' fition, his fore paws being fixed to the fame ' point, and his body forming an arch. The ' ftrength of his muscles is incredible; but it be-' comes ufeless to him when he walks : for his 4 motion

4 motion is conftrained and wavering. This · fructure alone feems to be the cause of the animal's flowness, which, besides, has no violent sappetites, and does not recognife those who s take care of him.

## SUPPLEMENT.

M. De la Borde remarks, that there are two species of these animals in Cayenne, the one called the bafbful-floth, and the other the fbeebflotb. The latter is twice as long as the former, and of the same thickness. He has long, bushy, whitish hair, and weighs about twenty-five pounds. He throws himfelf down upon men from the tops of trees, but in a manner fo fluggifh, that it is eafy to avoid him. He feeds during the day as well as the night.

'The bashful sloth,' M. de la Borde remarks, ' has black fpots on his body, weighs twelve ' pounds, keeps always on trees, and eats the ' leaves of the Surinam fig-tree, which are faid ' to be poisonous. The bowels of this sloth ' poifon dogs, and yet the flesh is good to ' eat; but its use is confined to the common ' people.

' Both species produce only a single young, ' which they always carry on their back. It is · probable,

## 164 THE TWO TOED AND

sprahale; shough I am not certain, that thep, made bring forth on trees. They feed on the laws of the Brafilian bytambetree, and of the Sariams of the Brafilian bytambetree, and of the Sariams flag. The two freequent in the envirous of Cayone. They formerime failpread envirous of Cayone. They formerime failpread themselves by their claws on branches of tree which hang over the rivers a good when initial floation, it is easy to care the branch and make them fall into the water; for they never one them fall into the water; for they never one of the property of the prope

their hold.
When afcending a tree, this animal carelefily

fretches out one of its fore pats, and fixes its long claw as high as it can reach. It then heavily raifes its body, gradually fixes the other pat, and, in this manner, continues to

climb. All these movements are incredibly show and languid. When kept in houses, they always climb upon some post or door, and

never choose to reft on the ground. If a flick is
 held out to them when on the ground, they
 lay hold of it, and mount to its top, where they
 firmly addrere with their fore paws, and em-

brace the flick with their whole body. They have a weak plaintive cry, which is heard at no great diffance.

From this paffage, it is obvious, that the sheepfloth is the same with what we have called unan, or the three-toed sloth; and that the bashfulfloth is the ai, or two-toed species.

Spondias lutea of Linnaus.





YOUNG three-food SLOTHS.



## THREE-TOED SLOTHS. 165

M. Vofmsër, an able naturalift, and fuperintendant of the Prince of Orange's cabinet, has erhidicid two affertions in my hidroy of their entitles of the relation of M. de Buffon, when he tells us, that the floths are unable to defeend from a tree, but allow themselves to fall down like \$\times\$ (blocks \*\frac{1}{2})\$

I advanced this fact on the authority of eye-witnelies, who affured me, that they had fometimes feen the animal fall down at their feet. The fact is farther supported by the teltimony of M. de la Borde. What I have fail on this fubject, therefore, ought by no means to be reicected.

The fecond affertion is not equally well founded. I willingly acknowledge my miftake, when I faid that the floths had no teeth, and I thank M. Vofmaër for correcting this error.

\* Descript, d'un Paresseux Pentedastile de Bengale, p. c.