

by Darwid in hel letter would be equanly tribes these is raroly munh polygany. and romen ars more or leen as matter of purohnole. There is almo lijtle elifference of nochal conditiona, and I think is zarely bisppese that any healthy and undefornised mhn remalns withouh wife and ohlidren. I very mooh doubd : the often-repeated subertion thas our arlatecracy are mord bisautiful than the midelie elianess. I nulow that they propeat apecimens of dowe ver
higheat kisd of beauty, but I doutht the average. I pawe notloed in counsry placye a graster anspunt of good loolon amponts the mildSle clasees, and, beaddes, we unt voldably combine. In orar Idea of bearaty, In-
tellentual expressten und ratinement of tellentual expreosion male the lese sppear the more heautiful. Mere playdeal besuaty-
 the body and featuren approsinhing to the moan and tgpe of Europens man-1 bemoan and type of is quite an frequent in obe clase of soclety as the other, and mooh more trequent in naral dlatricts than in cities. The spprebension is expreenen by
that, with regard to the rink of imin I that, Fith regard to the rank of mane in
nobiogloal denalfloation, he had failiod to make hinsalf intelligfibe. "I never meant to adope Owga's, or any' other guoh viewa, bet osily to point ous that, from one point
of vipw, he fo right. 1 hold that a diginec of vipw, he is right. I hold that a digtinec
fermify for mas, as Huxiey allows, lin all famify for man, as Huxiey allows, le al thas oan poualbly be given him nodiogicaliy, At the sama time, if my theory la trued thas, while the dalmaln whicb surrounime
him have been undergoing modiflowton in him have been undergoing modiflontion to fismily degree of citemnice, he has beed ohanging slmopet wholly io ths brain and hoad-then the geotogtonal natiquity, the opecise, man, may be as old as many mammalian familles, and the oriplat of the /amihy nikn may date bacit th' a period when some of the orders ifrst originated."

In Che nams letter frops which we have been quating, Mr. Wallisoo exhlbtia extracridinary zeperoeity by aearibing to Darwia priority in the diecovery of the pritadple been applied: As to the thegry of Naturnal bocieotion treolf, I whall always minintals is to be postrilly youns and yours only, is to be ecosanlly youn and sours only,
You had worloed it out in delafls I had naves thought of years before I bad a nsy of Ilesit thought of years before I bad a nay of lend on the mabject, and my paper would neper
hiwe oonvinoed anybody, or been netlepd hwwe oonvinged anybocy, or been notioyd
ss more than an ingendoun apeculatlon. ss more than an figendous apentianion:
wherese your hook has revolutioniped the wheveas your hook has revolutionised tha
stady of nstarat hlotory, and esrried a way espeive the beat man of the prosent age. All the merle I clatis Is the havtng boent the mesau of inducing you to write and pubilith at once."
Wallsos's lster view oonoprning the evolution of than were sot forth la the Quariarly Revless for Aprit, 130n. They ant aistinedy oppoeed to Dermin's. In that artsole be melatalne thas the bralui of sban, as well as the organa of mpeecta, the hased and the extimal form eould not-have bope evolved by maxural aplection. Is poe pertgraph he writes, "In the brith of the low: edt savagoe, and, an far as ke kow, of the previetorio races, we heve an organ 1tile
 the gighes-types.r But the tnastal of guintrushes of the lowent savapos, nuol at
 How, thon, whe en argen developed so fer Fiow, that tha meode of lla poppoptears? Katurnd beyrone to peod. savapen with a brale a Itule nupprior fo that savage wits s broles ain setuplly posesises
 nes but ree?
Ths pantex in marker in merniols mopy,

 Whe reallued the efrlaph of ithe atrontand witilith

thg benevoleboe abd aympathyr lo now ton
tering the weal and disensed wouli bo greater than by nilowing them to survfor and then to procreate."
On page sit ot the Erut volume will the found reprinted a letter dated Sept- 23, 1873, eod first published in Nolure Maroh 5, 1ka!, together whth a note from the late Dulre
of Argyl. in watch the latter stered thet the letter had Deen written to him by Darwin In reply to the quescion, "Why it was that he did ansume the unity of manilind os dencended from a slogle puir $p^{*}$.The Dulce added that, fo the rep)r, Darwin doee net reprudiate this interpretation of bis theory, but almply proceods to explain and delend the doctrine." On a former occenion the Duke of Argyil had ailuded an a fnct easumbd mankind to have arliken In ong place, and, therefore, in a slagle. peir. $\%$ plaon, and, therefore, in a slagla, peir. soewer to sonse scientifle, frianids who sowser to monse scientinc the fact and noised-tor a referebse on which the atalehient was bhoed. Whe Faprodues Darwitin worda: "The problem Whloh you etate so chearly is a very interent-
ing oce, on Whioh I have often apeculated. ing ooe, on Whioh I have often gpeculated. As far as I oan judge, the hapmobability
is eatreme that the ramse well-charactarlaod is extreme that the eams well-charactarisod opecies wheula be procluced in twp dinlact countrin or at swo dintimos times. Is;
certain that the name meriation miny arise certain shat the same weria with aithlism
in two distiliot pleoes, as witr or whith the nectarite on the "pepntitree. But the evidence sepms to tree oveinhbimIng that a well-marked specise is the produot, aot of a mingie of of a fow veriatinea, but of a lont nertios of moditipations, slith modificatlion roupling ebsiefly from ndepear tion to inffaitaly ocmplex conditionsi: (lacluding the Inhahltants ef the sarge country ) with more or lese inheritance ot alt the preosding moditiontions. Morsovgr, as ver abbilty dependa more on the nyturn of thin the varlatione will tend to differ at eash
 neerns to me improbsble is the blethoet diegree that a specion should over havi been exposed ta two plagee io infinitely complez rolations of exactly thensire mal. une durtag a long oeries. of moditicatjofic. An llimatralion wial ferhaps madre whyt I An Illatration wial perhaps maire what I
bsve sild eloterer, thougb to applefs anlf fa
 vartability, and not to idspindion-vily, varke insprebability of two mogn belots born In two countrifen lipntifal in body nidi mind. If, however, If be asuansed that a speclea
 wan sarrounded in two flletinet eountries or trome by exactly the nasis sequaplaget of plante and aitrenls and by the mane physical condltions, then I ceas ete po theoretioal darboulty in wich a ipecied giving birth to the new form'is the two coutiatries: It obvloualy domen pill foll/ty from this
 hare deboended from a slpyle palr.- In a
lekinr addrnased to $G$. Beathises and deted. leiver eddrrened to $G$. Bentheres and detod. Nov, 25, inee, he distinetly sajs "I dinpute whether a bewr mase of specied frocis a ginule
 Alvideale. I belleve, bpooten altared $46-$ apther-ilize all formeptla breeda, wdel arn ohanged,
by man."
On April $\mathrm{B}_{1}$ xaid, Prot, Buariog loptured as the hoyal Inetientides ou-Tos Comilit of AME of the Origln of Bytetina *. Writipe to Jish. wis mbout the lochure, Hemier soge "Tinde gev do mot imaghen, beoains 1 had nothinter to ayy about "Shavint Boleothoy that 1, ang







oovmis of ibe conistanit bettles of AnstroHian eayaget, I memomber thinkind that astely Wiwe whtuthen Encuimaux, wilh whom the ast of fiebing uand emineging cunbes of sald ta'si heventhry I nuther differ oh the
 obe ractor atmply ifa excens ought sher to becnitiod tfor ctloo, higher-divialoas, Ante Watajor be frithatits from other hy
 inetinote offthe ather. ? Mh, Whilaces pad

 between mar achal apd graniat dizemeoces
 partsiet to the hody-and alma by ati endenvor to nocopumt for the diverally of humsn races.
 bility of forsn aurfag nil historieit epochs.-
Dapinias now croplins: "With renptoct to
 outint forpge that much may be diae to the
 thatria dughty fadividiual best epcapod miasman and you will readily see what I mean. Becondly, I suspect that a sort of sexuel
 of ofatides she selations of man. I. can
usfow that the different races have a widely different standard of beanty. Amoeng savegog tha tnost powerful mem will have the plici 'of the mompn, and they will generally leave the most demcendants. Our
aristocracy fin bandwomer (more bideous aristgeyacy, th badwomer (more hideous
scinding to a Chinese or negro) than the mudde, chingsp, from having the plek of the "egen bout ob, whas a schenve is primeIn Has naksorf: to the tetter above condensed Mr. Wallace Writas: "In my paper
on man I aimed dolety wit abowing that brutes ara mpdifind it a great varioty of
wase ty matural moleotion, but that in none wava by natural eoleotion, but that in none fled. becaines of the nuperlority of his intpllect I therefores no doubt, ovililoolk a fow ampaller pollibls tht, which natural ne-


 Nitiody Hisma Revieq. At the sanan Life-chers in so mineh evidenoe of milgra-
 phaialit, characters inhabiting the same
 unlform phyidial characters inhabiting Widety disamilar regions, that the ex-
tornat ohathoterletics of the ehlef raoes of man muld- 1 think, bo oldes than hie pienerte ietographical distribution, and the modifiontsons produced by correlation to favorable variatione of oonstitution be
ofiy a endondiry osanes of external madiHivation. Mf, Wallace goes on to may: "Why regard to. the constant bateles of
ravespes, lead pit to the seleotlon of physion superiofty, I think it would be vhyion perfect and subjeot sa no many excoptiona and irteguiartion that it could produce
 eat and hrawat teedi wbuld lead, cind expoie. thethelvea mont, and, would there.
forc..ti maet sabject to wounds and death. forchisi mant sabject to woundin and death.
Ah theplysloal pnergy which lod to any oqd table detphithig in war might laad to it $f$ extermination by liduelng quarrate Whan, al nurropinding tribee and lowdiog

 lead to viethit ain weil am mert physioal
eirength. Mornaver, this litnd of more of leptympoticfluar gotiv on among all esv-
 to, tiep kepplatio op of a emtain averase
 aplipted to depelal habita of Iffe, he fishIng, paddelist witing ellmblhg to. In



Interior In aloo and opomplaxity to that of the lighset typoes. Hut the mantal of quiremente of the lowrot savages mioh sian
the Australians, or the Andaman bilendern are very Hisile above thows of many andmals. How, than, was an organ developed to far beyond the needs of its ponsessers? Natural pelection could : only have endowed the or agage with a brein a litetlo auperior to that one but very, litut inferfor to that of the Average meghioss of our learned solefles.:

 and wall a akd theti of noter of explamation. The oditge of thede xoturney bel ryvel it to have bean thenirat oxcoation on whioh barntriking divergonee In oflnion between ntrixing divergence in
himbelf and Mr. Wallace.
In 1sea, Francis Chlisan publighed his Lawn and Oonsequencos. ${ }^{\text {a }}$ About a Into Its later, Darwin wrote to blaw: "I have oaly moad nbout firty pegse of your book, but I must exhale myself, else nomething will go wrongia my inalde. I do not think I ever in ail my life read anything more ietereatfrg and more original. You have made a convert of an opponent in one sense, for I have nlwayn matntained that, exoepting fools, mon did not differ muoh in intellect, but soly in seal and hard work. I atill think thin is an eminently ineportant difference.

In It true that the sense of color hase been but reoently pequired by man? We flnd the following observation in a letter addressed by Darwin in 18 年7 to Dr. Erast Erause, who had answered the question In the negative: "I attonded carsfully to the mental development of my young ohildren, and with two, or, as I believe, three of them, soon after they had poves to the age when they knew the namen, of all common objecth, I was startlod by obsorying that they soempd quite incapable of atmixieg the right names, to the colors in colored ongraviegs, although I tried repeatedly to tesoh thom. I distlinctiy remember deelaring thas they were color| blind, but ©his afterward proved a gropind |
| :--- |
| lewn fear, |

 he was feformed that a nearly aimiler onse had been notlond. He inferred that the dimeulty thioh young chlldren experfenced, etfher in dintinguiahing or in naming: onloin, domerved furthar inveatigntion. Wo added that "It formerly appsaned to me that the guatatory senas, at least in the ouse of my own Infants, and wery young ohildrim, diffored from that of grown-up persona. Thir waa abown by thelr not disiliding rhubarb mixed with a littlo sugar and millk, whlah is to us abominebly naureous, and is their strong taate for the sourent frutise such as unifipe eopoeberrios and crab-apples. ${ }^{\pi}$

Usder date of Nov. 15, 1838, Darnio refers to an article in wbieh Frande Gialton had proposed oertiflostee of healith as conditione of marriage, and hed argued that only the men and wompen who were playil. oelly beet should be mated. "I have lataly been led," we reed, "te rofloot i I little on the \{proponed) artificial ahecka |apon progreationl, bus doubs graatly whethar suth mould be sdrantagooun to the worla at large in the propent, however it may be In the dietant future. Suppose that moh obooles had boen in action durfise the linat two or thrse oenturies, or ieven för a ahnerter time ia Brlude, what a differsoce it would have marie in the world, when we oosplder Amerlon, Australla, Now Zealined and Bouth. Afrioa. No mordin oan exageterate" the importanoo, in my optnion, of our colon: imation for the futurn history of the world: Derwin addet "If ic were umiviroally knowni that the difith of ohlidrea could be provented, and this wereh nat thought the-
moral by yarriod pernona, would thars not be groes danger of axireme profligney smong unmarried vomes, and mbaht me Poelfict In the dourne of a coptury. France Will tall un the rofilt th many veyw, and we can already eee that the Mrenah, nation



Aividuals, I bollove, bwoonse aitered to-gether-ilike all dompestio.breede, whited toby man.:
On Apeil 2, 1ss0, Prof. Huxley lectured at the Royal Inntitatiqu of "The Coming of Agn of the Origin of Species.: Writing to Daryin sbout the lecture, Hurley sige: II hope you do not imagine, beowuse I had oothing to any about 'Natural Selection,' that I am at all weak of faith on that article. But the fact of evchution into mee to be to drive the
 Datwin once sidfo, the rest trill corme easix. ater "I nsw yotir motive for aot allatesing to 'Satural Selection,' and quite agreed in my Hilnd in 1 Its wiadom. But, at. thie same timh, it ooourred to mee that you might be siving it up, and that, siny. híw, you pould not allude to is without various provison' too long to give in a leoture
"If I think continneualy jon some half doase structuras, of whioh we can nt predept eee no une, I can perwande myvelf that Natural Selection is of quite nuborvilinate impertance. On the other hand, when I reflect on the fnnumerable structures, especially in plants. callod, twenty years ago, would have been called slmuty 'morphologicarl' and useless, apd whioh are noe known to be highly Important, I conh persuade myself that every miruoture may have beth developed
through Natural Spieotion. It is really curious how many out of a list of atrueturen whicj Bronn ensumerated as not poesfly due to Natural Select $\$ 0 \mathrm{~b}$, because of no functional importance, can now be abown to be lighly important. Lobed leaves was I bellove, one cane, asd only two or three
dare ago Frank. [Darvin] Ainowed me how they act in a manner quite sufficlently fm portant to acoount for tho lobing of any large leaf. I am particularly delighted at What you asy about domestle dogs, Jackals asd wolves, because, from mere Indirect
evidence, Tarrived in
'Varietien of Domentlo Anlmants at extactly the same conelusion with respect to the domeetlo dogn of Europe and North Amerion-the conoluslon. namely, that donsatic dogo descend from more than one wild speciea. Sce how important in abother way this coneluation in: for no obe can doubt that largo and nmall dogn are perfocely fertile togecther, and produce fertle mopgelels ayd how wall thin supporta the Paliastan doctrise that demesticetion ellminnitea the qterility, almote univeraal botwoen forms lalowly develaped in a attate of natuim? ${ }^{*}$
While the greet achlevoment of Darwin's tife wan the demonstration that apecies are not independebtly created by the fiat of a higher powar, be by no, manas regarded the Conmon an-a fortaisonia product. In a letter to Land Farrer, dated Aug. 28, 15ai, he says: "If we constider the whole untverse, the mind refunes to look at it an the outoome of chasco-that in, wlehout dester or purpoes. The whole quentlos, bowever, sebme to me inmoluhlo, for I capeint put mach or any faith in the so-called in tultlons of the human mind, which heve been developed, as I exnnot doubt frosn nuch a mind za abilinals poneses: and what mould theif convietions or mitultions be morthy Dareln Admilte that, with hin human mind, be cennot concolive of a ohance-evolvid univarne, ynt he doas not deay that the labbility ta form enob a consoeption mayi ho due to limitations of his intelseot.
We bring our extracte from theoe volumete to an and eibh a Inter to R. Meldole, the tranniator of Trof. A. Welamarn'r "Btatliey fo the Theory of Deepent." Darwin hand agreals to orlice profatory notion, and the bented that he shotald potat out by refer-
 Arided aut it


