Notebooks on Visualising Inquiry

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1864-1880

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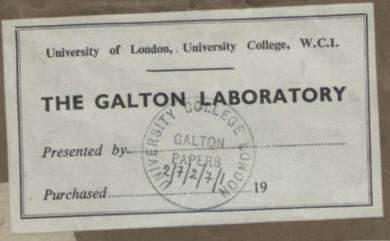
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The search for a theory texpolain Heredit, is life that made by travellers to ruccepion expedition, through a district cut up by canons and abounding with originate their thicket, to find a way to teme distant peak where a pandramic view of the whole county may be gained. Each expedition learns tomething more of the possibilities of the way that was previously known, so that leng before the peak itself has been conquered, if his against as incomposite, to five a property as given a paint marks as high forth, to five a preceding to be marks as high forth, to five a found to appear to however, but have been found to affect the and to point and others without might be and to point and others without might be and to point and others without may a found to afford good paths for a long distance in the series direction.

My object is to put up one of these sign posts at a place where two routes diverse, I will to thew that the various lightherer concerning the mature of heresty to say which of them ought to be followed and I will show that the explaint has it rapidly

f.3 7 attains a potition a large part Acales the kill and leads if to where there of the principal feature, of the country can though I do not profel to know the the took the the ofind displayed, as it a map. But I do not profes to have explored the way any further; mich delp know they brook their leads itself, whence every feature of the county withent gentiles. orthe taplear the displayed as in a ruaft. the Represent of which I should in their the Aux candidad toutle, in two groups, while Towny to redirection &alled the mixecular & du hon - molecular hypothering more of the between the undecider and un reflecular view A heredsty, one a otter of which inquestion the Act. The bifurcularing of the wort who host his to be placed in the wante road to all high the molecular theories of heredity diverges from the xon-molecular and the object is ruhod w that the former of the the latter.

the bifurcation is question is at the house where the road Lutich leads to all popular historials hypotheres, diverges from that which leads to the non-molecular no, and the light host I desire heat hopefull be made about the true way then the way In other words, that the true theory of Hereday, whatever, else it may be, is producting they dear of germented one. Which look up suppose of every ferinal is plant to have been derived from a large runber of distinct non-molecular are thou in which the original material is supposed to be were a less uniform, and

that the diversity forme which exists, have been made by the action of some my sterains (stal force.

Before voice further it is necessary to be quite explicate in the meaning of the words molecular affinity. The literal signification of molecular is a small heap or aggregate but it is used to express a definite company of grains of

By service & molecule some smale object of the nature of a beech, which if magnified sufficiently, and toward appear to the air other interest object, in that smaller growing, fact of definite sign. A to the sufficient of the su if an official whole, to piterer which want befrown without Suffering destination distincte it cannot be divided without conflete top of its frathertar du, more than a ward and of sufficiently magnified, wall appear this and the life to direct; occupying space and having the comment qualities of header in that
it must occupy space and that its influence which to other Evening
the waster to their be acceded in the wasters by the tricinity then
or of Hance from them. Mureline has the afternation all animals or plants during any early stage of their extreme were composed merely of germ bird andleader, by implication, Avest deal just it & sufficient If the influence, which one geringerale whom another, it is interested to speak in other their a purely abstract matterer they are in much in really to the imagination in probable, therion, Legen sean that los sueed and enter int any details required, these nature, so lay as we consent tack reconice their helping existence

It is also extrement to speak in general terms of the horses of multiplication and eveloped state as well as of the cohomity of any of them for development, we need not enter int any relation as a topice the german may



It is lufticent to speak in fund, abolished terms

I the staffmences which one germ my exert aform

another. They must have don't be very various and it

is easy to in a give though their world be affinited to

barries degrees to are stone together, about these

Mechanical causes might jostle the germs out of their

place, a to on but we need not enter int any delaid,

we have any fine provides to recogniting the fact that

mytered influences

to the lending to cood instein of which about which

what very thought have

the with now the proceed to speak to consider!

after their preliminary explanations, we may proceed without danger of sein minuterations to the Evidence when which the sounded.

We have to these with favor of germs theories generally to had warrant have we to helpfore that the various organs of the human frame came were derived from distinct germs or sets of germs, selling how beautiful they are coordinated with a squetricul whole?

The order to reply we had best the fire example or some shipping characteristic; any will ferre our turn, and the

drawn from the great difamiliant of brother I will now give wasmis looks the function of the stirt must be looked when as existed in a the state of medley and not in an organized form; The first inflorance from the great definitionity that often exist, between brother and sisters. It can have the for the solitority that have the bedieved that their things in must be without the trans Mosely similar as Each of the ingredients in they must have been derived by direct descent from their havents & must also be of a big struple character how timplex organisms breed for more true to their kind the more compound breed heart, you to the kind the more compound ones con begulage the several impredients of the stirps of the brothers organisation was also derived high the parents the brother & toten themselves would always be closely alite which they are not. From their we much Conclude that the organization is not interited but is an after condition; in other words, that the impredients in the stirt are warganised. Upon their hypotheri an difficulty difrapleads

and here I wish emphate only thorst out that the toperand it will necessary to appear with his danner which cause mentioned affinities are the only causes which cause one girm to prevail over another. We may leave the great of such which the cause of substitute there are the appearance of the proposition that where there are two conditute to one place, their must be appointed reasons. Why our gets it is the other their faits.

GALTON S PAPERS S

hapkens to have affinition, is the nearest to A. Now the position of the motivales when they are in the condition of a mere mot, must defined to a great degree on a multitude of Amall, external accidents; their the importable of knowing any thing about these, that gives an apparent capricious character to the desired of pheredity.

So soon as we have unreservedly embedded to take any kind of germ hyportensis broad setalls of a very harbicalles views, lertain broad setalls of a very harbicalles views, lertain broad setalls of a very harbicalles of municipal their must be a limitation of number of multicale, in the stirp, I being obviously importable consequent, there must be a straggle among the competing element, of the same to Enter into the stirp, followed by a survival of the fittest. The straggle must be sharp because the stirp of the child can only contain half as much as the turn of the stirps of his two larents and get there is no quality from either of them which he might not have inherited, the special contains that of his his two have and plus problems and have inherited,

set in there is nothing of check it's course when is harden function of a single harder to the offshiring of a single harder to the offshiring of two pasents. In the first one The said towns energenic manufaction and the same reason that there is always a liability for them storm become extend and when the thirty of scaling against the same to see the case of the charter his section of the surname town the same is needed for the cases of two severs the same as destroy than is needed for the cases of two severs the same is destroy than is needed for the cases of two severs the same is destroy

much wonder has been expreped at the fact, that the life of a race cannot be carried in for more than a short time by any process of budding, but that the occurrend emeanted two sexes is extential for its indefinite maintenance. The explanation of this fact is a simple result of what has fast been stated, there is a salutary struggle to excitence, in the one which is absent in the other. In the tormer care, the stirt. If the bad is almost the same as that of the individual him which it spronted; in the latter Case the stirt is an entirely new combination. In the former case, the life of the race differs little from the life of an individual, and when deterioration sets in, which in the ups and down of existence it muit, do there aix no source whence what has been to that of the extinction of sumanes of here to being always some small trability for soer, surname to dipableau, and when the chances have once arrayed themselves against it, the turname is gone for Ever.

It is quite clear, as has been already pointed out, that the individual much have been developed from ing from a small selection of the ingredient, of the stirle. I the stirle that ingredient, being allernative, inarrund as they contradictory. The storp must contained all that had in requisite making of a tall man, in of a short man, of a daisk is of a fair, of an intelligent or a foolish, of a vioncious or a stugget one because fore the actuals transmit, the qualities of many of these while there is love reaton to believe that he to is capable under favorable commelained many more of them, to being the sent many more of them, to being descendents. Ever peculiarit huvever minute that has characterized any one of hundreds of ancestors, may have its representative in the stirp. It is a very rough estimate of treeders that any characteristic of which they desire to got rid, county be whole extinguished under eight generations according to this, the stirt would contain all

the peculiarities of (2 =) 256 persons. but of this bast and incongroun medley only so much become developed as suffices to form one congravous intivity they large retidue is undeveloped, and remains latent The reason why such and such moticute, succeedin obtaining a place in the nascent organization and others are superseded, is a general intelligible enough in a general way. One important cause has already been specified, namely that of accidenting position of the several molecules, by which faint. be theoreted. These and other buriable causes dipappear, when we look at the results of heredity on a large scale, while those of such constant Causes as are the most will invariably become manifest; hence it is, that a statistical treatmentis heculiarly suitable & inquiries in heredity.

The phonoconey of the getting, It mederal by the perturbers bera byth birelle registered as Megatiment to the total number of these has two carners features It is promitive to certain destricts and in the production of continued to make the same in the same to the same is targe & so ended spread that It is east, compared the Effects of the various exportation causes in district when they severally differ be other conthin are the same, theolong to I appear that us great influence can be assigned to loverty, to Courty or Town life, & Educates n 4th professed Nebyon creed, in Dismit that eve co terminion may de the countries as whole that amount of Mightining as ordered above, The Countries as whole that are more free from it are Ireland on Russia, those England is water an half way, Scotten constructed lever down at 79 In one small desent of water, whose name requires 21 letters a 7 syllables to Expression, about on in son, 7 children was Mechanite. In another a southern Scotland the ellegidemany is greater then in are, ine of the of departments of France, Paris my excepter Inquire show that the laxity of the social openin in gent as different in different districts a to my viving them is no whater it a doubt that

The freezency of illegationing in different places, on menerical to the number of births to regulared to the total number of them, her two General othe features It is even from told greater in one distant than it another that seems counterly sincered in son the affect respects on it is remarkably constant during may recurrence years at same district. He date an very numerous as her her mountifuld by 5 Leffingwes (*(NE) who shows that it is not greatly enfluenced by an one of the causes to which it much at first with the architect, and as Poserly, Town or County life, would educate to profess always overed, the exember of a large part, though here I comed agotte with him, to derest time towers times, and in a reconsory, but I would market in a a formery begree, to it social ofment of the district, which tolerated lawity in some places & is exceeding severy in others

f. 16 Newscace goe to tittle whether in town is county four to little as a matter of fact the returns from town come out the best. Legislative affects way to notable in the sence that legitimacy many be accorded too readily, or among the Morenous to by Whorester Megitimag by throwing obstades in the way of married, as has not introquently book some. tratal 23/2331 Stan 1 52 187 Robert Sant 190km)
2 maller dryni Lla Mage a Ulsle NE-NW To Even diff a without places of how alrows Persistace in god Poverty mars 75 our Education washe scotten) Generaleure nelvin Calvania se Table 53 teach GINE - NW Scoth & 52.3 Legis 1830 - heles bel Super - miles - Inferior - Inferior Marin this nie, nathral - Polemy africk allow Heredy 50 careful (3 Pacific Concentration of 13 Parter of James 78, Stad fute a English The 1884 Junto Cruelly 6- north 83 Cocclum 1 85

The perfected which whether catholic a Pertertant, has little power to though " Catholic past of Inland are for tocar line Mescaracy than It Postertant get away the hatin's the highly Cattolic mer of austria a Bararia real the lowers. , for below the Potestest ver - " he perforten en closely it tome for many raccession sens to there of Ist of will leave as an example helend 21 her thorsend, England & Wales 46, Praction So, Scotland 79, Norway 74, Bevaria 141, austria 147. The variations between neighbouring destrot that profess to saw creed may be carmon. The asjacent North Eastern division of Scotland worked Beaff Elgin havin Kintartie a Orberteen of the adjacent North bestern district workedes Ross, commente a twoeness, the former has a rate of 141 illegationale to each loos bestis; the latter his course of 64.

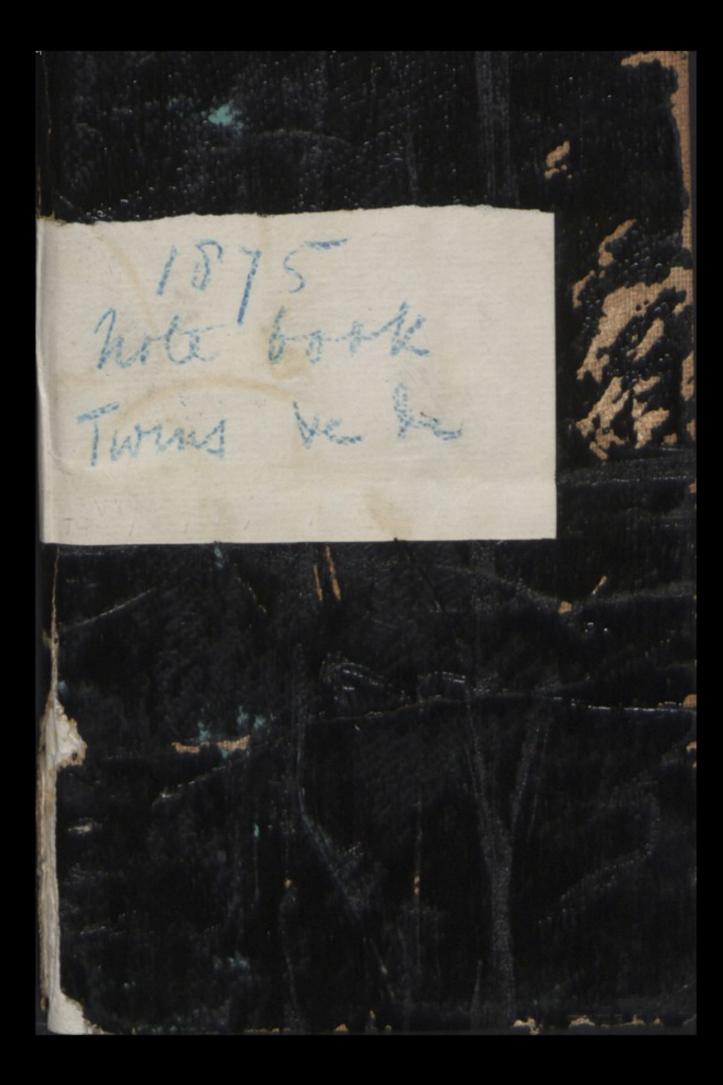
Manty stands the brown of all countries, with abovered of 160 when the Austral bishles but of smaller district a locket line on whose wars consists of seven to libber In othe work one in long to children in ittegitimete. I Poverty in sentery shown to have bette us dominent effect. Her poored dethick an according to their text the charlest on the the in Ireland and to

Perhaps no more instruction content in the power of Social operation can be from then in it offects on certaining suggestioning, The data in which I good then operate out the operate are partly that that are expressed with new claimers of 3.2.

Leftingwell is his treatle book bearing that title (Swan Sommerchia 12, 29/6) together with the centre of a few againsts of may one, but my conclusion obtter from his.

The shows find that the sets of elegitimizing travely greatly loven as much as fowfold in hisferent recipitarship, destricts light it their great constant for a long toward in historical and the stand of the same of the same of the stand of the same of the stand of the same of the same of the standard of the same of the

the fact that etreation has a horseithal negation effect: Then in Kirculinish the South Scotland 99 her coul of he married comes could light their out meaner which is larger prohips bester former than far Educated than in any country of Surspe in any country of Sarape in any country of Sachand in Walter, and get the late of illigitionary is higher there there is any one of the Sig defeatured of France, Parcin all excepted. I France, then we are period, 1879-1888 there was a tringle year in which the other sach of illigiting in the anal more light educated promise of Commanght than as that of it ignored population of Commanght. In France, Frantiere is rated as the most ignored of the Dig defartments of France last thanks brown in the last difficultinary. It is 34 feer both higher annually which is brown that that windows at the town time is a suggested to Surgland walls in Scotland.



7. Gallon 42 Butlan Yate. 1575



TWINS Dictimaire des Sciences Wiedicales. ast: Jumeany por 1.504 Natio of twin accombements Etingle as 1: da to sad chitis but at each brith that, when present and a trule mule. moreau of de Tours. La Ptychologie morbide har le Docteur J. Moreau (de Tours) medicie de l'horfice de Bicetre. Paris. Litraine Victor Maken 1859. Fage 172 Speeks of two Twin brothers who were compined, on accome I monomania at Bicetre Therically the two young wen were so nearly alike that the readily the one was early mistaten to the

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other. Morall the resemblance no les complete and I fresentes is most remarkable fromts of details in details. Hur, their dominant ideas are obsolutely the Same. They both consider themulus subjected to imaginar, persecutions; the same lucining have sworn their destruction & cruplay the same weam to accomplish it. Both have hallucinations of hearing. medanchedy morore, the never aborep a word tany body & answer ust bill hardy answer the questions that others adreh Eller. They talways beech about a were communicate with are auther. an extremel currons fact that been frequently berified (constate) by the persons in whose superintendents of their fact of the horfital o by nigrey.

in their: - thom time to time, at very irregular intervals 12,3, and many monther, without appreciable cause and by a totally spontaneous effect of their illust, a very marked chance take, place is the condition of the hos brothen. Both of them, at the same twee x of len on the same day rouse a habition function; they after the same complaints & come of their new accord against with waring the ply win to let them free. I have been their stronge thing occur, however through it may even when they wear separated me tome the other, to some mile, apart the me boy et Bicetre & the other lion at the Saint anne

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D'Paget refer me t a cake of twents living apart trimultaneousl, mad in same way, in Annales Medico-psychologique, 1843. Nº22. by Mr. Baume p. 312.

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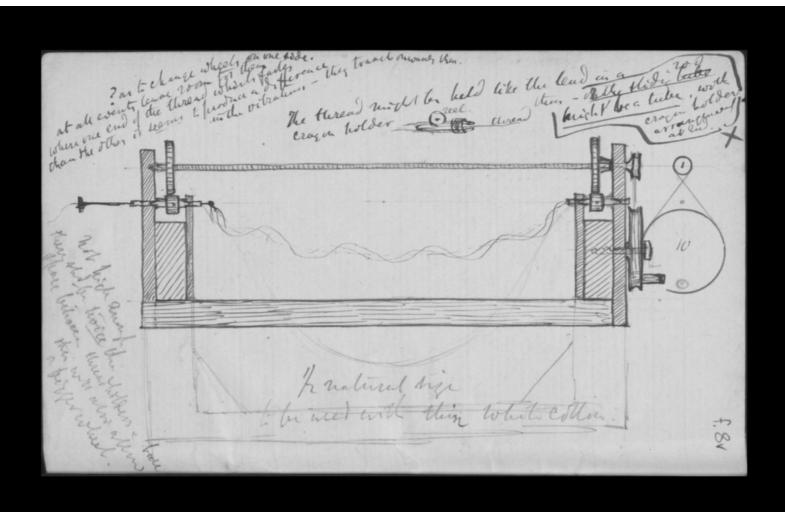
Linel Beale, Structure a growth of Upner 1865 p. 21

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team & mike and his had. The bozather vodling, which the his Hirle came toward when he began (fitis al tenethe the Spirites came on the hand of the artest _ the awards saw the by fante on the grief to grante it the great plager Berthome; his lutor de Mierre vrache for the story. 5%. Hettserve a care fa spiler Allow awaster musician who placed thanh mercier





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annales Medico Pagelologiques 4. Serie 1. 1863 Janvier - Juin 12 312. G & Baume. "Singulier cas de fotie suicide ches dedex freres jumeaux - Corneidences bigarres." Francis & martin, 50 years old, worked as entrepreneurs on the railroad between Quimpera Chateulin. Martin had twice there had slight attack of insanity on Jun 15 a box in which the twin had both placed their savings was wobbed. Oh Jan I3-4. Francis who todged at It Quinper & Martin who lived with his wifex children 2 leagues At at V. Lorette, had both the lame Irean, at the same hour of the morning, 3 am. both a work with a start (en sursant) crying I have hold of the thick, I have hold of

the thief, they are doing harm to my brother and they both were in extreme acitalian an gave was to the same extravagances, dancing a leaking. martin spray in this Evandelisted whom he declared to be the lotter x of presented Gotten from tweed & through him in He became worse, complained of violent frames in the head went out of door on town exceede a tried to dooren humself but his ten who had followed him I tother hum for the was taken by sepadationes, who had procused the ricefun authority to a rund home the same lacting where he died in 3 days White this took place Francois had been Latingle down in the morning of the 24t x he employed the day on findy out the thief - By a strange chance he assimed at croped his brother path at the mornest when the latter was Mrighly unth the gent darmer. He

became himself again maddened after some extrapolisate festures and making himself the tame incoherent husborals that his brother) had been and the bled, which was down, then declaring himself better, he went out under a forter pretect of lecuting some committees and actually doorwed huntelf in the wier fat the very for where . martin had just a few hour before alterapted to do the same. their is an abstract of the original, whis is longer a contain more detail. L closes with the following he this way, how brothers when were living, met their death: their madrich, developed through the Same

effects of the same cause presented almost the the same preculiarities, it declared itself at the same hour and would so for the the levini voice Concerned (a l'insu des deux aliènes) have ended by the same desconfluir of turisde, and at the same place."

(I levor out 3 lines at the lad)

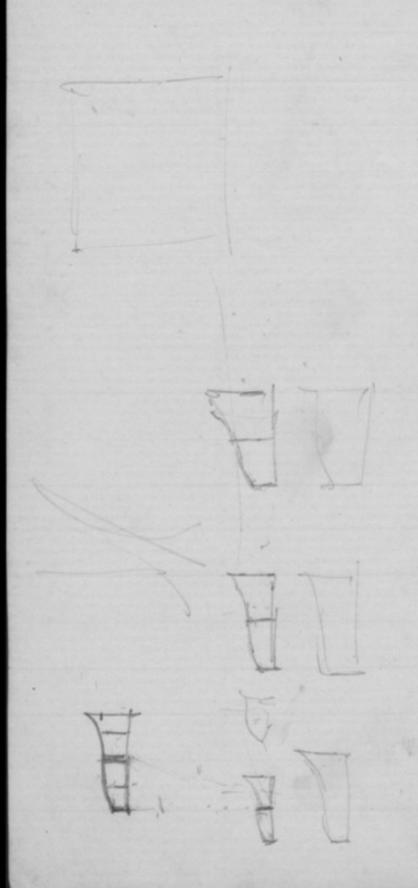
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art C. Jarmen f. 13v any facts about the met the same egg what about Balliani Where his he westlen about Coolule Here in their acollection of toyle pacquered and How can I leave morroscope, Shall I get int a scribe of I aprime as generally arrefted Que Independence of organic units - org That germen com breed germen They organization the to the muter (efficiently 1 gerns Som on wester when they get to be organise into Segual Clonents. intensity of sexuality offers -

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a foctor occur in Tuinous on the foctor of an covered ythe Shin - In check: neck: spigether & humbelied region, sacral & perious of regions, their with most frequent.

Hunter works 1837 voll fr 34. with Free. Martin 3h. Hermaphrotition occurs mod rares or man, has more then a thermen, the same of dogs & cats, but in the horse als theel a black cattle it is by frewit - an animal can't have both a pener of a detorie, it must partate of both perden in a hermaph: . So the testie & ovary may long * retily Hunter " Quereis the Soer in nature one body without the perfection flatter. - their companied past is generall, found in the bouter of the ovary. In graminiovory animals the udder a Scrotum are both believed the high legs and

the testides of a hereonaphrootte, which has both

they attender may descend int it. the hermaphroviles he has been alway appeared External to be females, from the penin being the part brine fearly deficient & there being an spening behind; the lettides seldom came Suona the adds is left in its he has place. he sheet, goals, light to these are generally Kept. be; Suphered the female. - lunon hiller truck are be, frequent - I have here When a cow (wblack cattle) brings fort hor colver & one of them a bull-call & the other, tophearace a cow, the cow call is unfit to bropagation but the bull call grows of a very bull. - Such a coro-call is Called a Free-Martin. & 4 comment as koels Known amony farmers as Cetter a cow of a bull - Micalf is kermof hosti . they are kept to falleng & are like of en - the do not then the ked indication to the bull us the bull to thou But this is not an invariably rule they furtheries treed. He direct 3. one of When welly for 1 Bickly Farm near the direct 3.

Sparth Studies wher Twillings 1.181 Zeitsehrift der Viener Gesellschaff der Aerate. 18ho 1. 225 ap. The N h 14880 birther al the try in Horbital I had the opportunity of tobreron 185 cares of torin (1 w 80.) p. 22h. The "nachburtsorgane" were nobuntled 4 126 cares & an adequate Gaminaten, a Herred all the known defference - there form) 49 case of Separate placenter 2 Choring 2 aming 4h . poined " 2 Ch v 2 lu 728 .. come 1ch 2 2 am 30/2 " 10 med 1 ch x 1 am Day there is doubtful at regards it I demain. In the formed placenta generally the anattorning of the blood befreh was not ver complete - this is contrary & Kiwisch. Contider, I Choruiz teme sex a certainty toate I care of arrette In 176 cases on 62 were fully repe to not use viable 108 not rife but viable

Fu the most pad the children were of f. 191 unequal tize

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1.108. Souble rolked eggs seldrum produces 2 chicks. Twin chicks are probably produced from tringle yelked eggs.

Nulliple bootles M. Garthshare MD. Phil. Trans:
1787 of 14xves ph 344.

Rach condition chrote: orgin of bounds monties London Chrot. Months fournal of mercal Se 1844. 4581.

Panum untersichungen über die Satste heung der Philosolungen - Gierm der Vögel. Jo Berlu 1860. He tried 70 eggs of Fords 3 of goore all with drubt golfs artheir auchbatem & opened at the 16th day 21 no dealthing 15 fords I gove I had dealthin und the other, 10 fords regular lead from fof sail golf , no trace of union between the mit of forthe had a weath healthing ordead other word him 7 forth. Said viletter had a recourter it is one was notural the other a mounter

1074 259 / Somprous Obstatric memore There is an excellent investigation of their tulyed by Sir Tohn bunfrer to from the states tice of 143 females to troised to believe il ablean (Obstative memous I 314) 1327 Hat is the burner subject females bom co-livin with males are, when married, as tikely to have children and any other female, there who are and authorition being and in one in terry better the filling their 4. 3. That the Jame law marlemain & peculiar to cattle but the losting here is by un perfect excell is ignore theel Lee also remarked his II. 25%, 349 tree-hartenin is the back in calle marria x 4,2 beg the general average

h.320. He Mote, how strange it is
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the fearale tevis, white then of the male
took are perfectly of fall developed - (This
is inaccurate the female" havin is not
a fearale. The case rather is that when
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is a true male x the other, is not a true male
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Startment Many as usually an animal of employed
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Incidental advertiges there how the teach.

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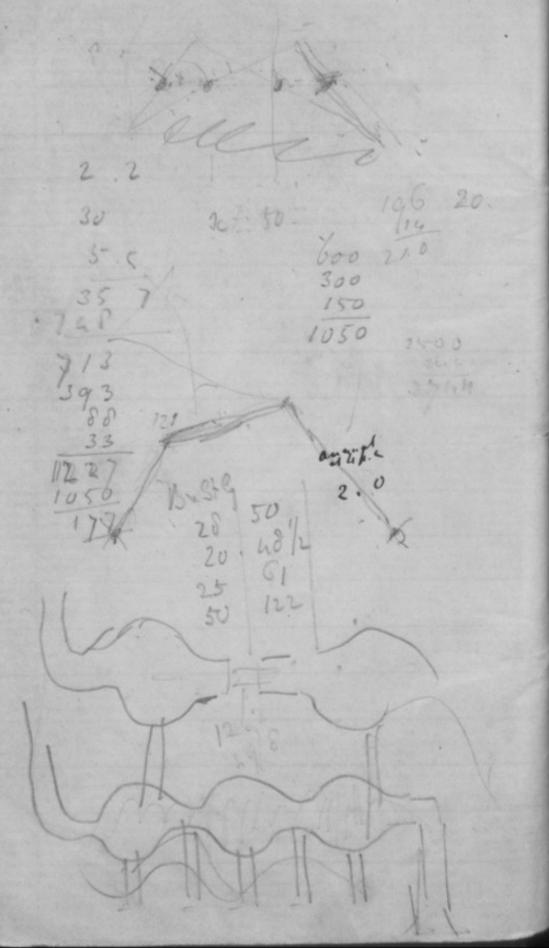
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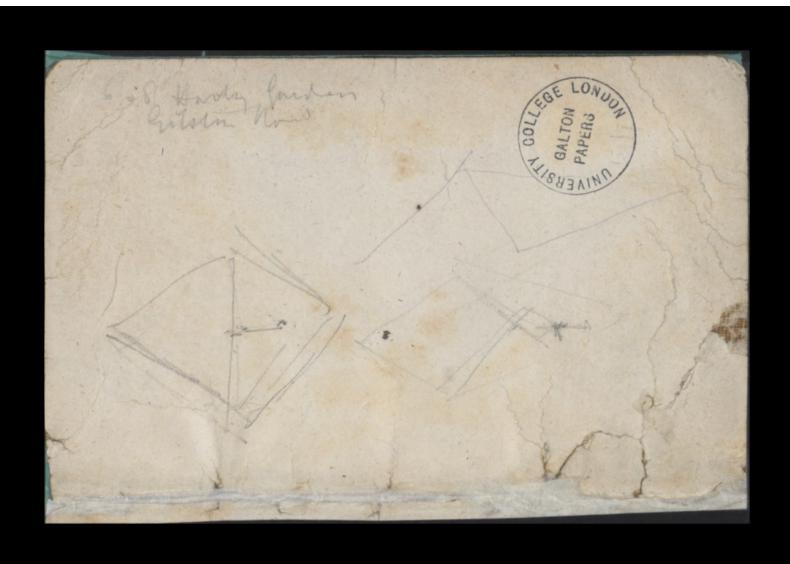
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University of London, University College, W.C.1.

THE GALTON LABORATORY

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for "- - from the imagination that it afterwards projects out the external world and by aby mintakes to reallities!

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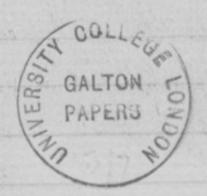
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sometimes found it necessary 6 Inforcette common Interio of humany & possible land ing never care for their forgs 230. 10 a Lerrous malandedy tocative animal - will sit whole days in one frostern without opening the lifes marding Indian file - rowing canal alin Science. 232 Secren - Or Jam bling - an insurrection at Fern was tratching To 30 years unsuspected. 23.3 Verseverance o diquité 234. Partitionship (community) Real for homer of their tribe 236 a man con conceive no other total life to tolerall than his own Tartar - american - do not cavil at hose confrehend civilization, are

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amazed et it. 237 deifer Surfeson White men 383 a note - Sycellent returne of american Character 388. The negroes are more in -proseable - though stace look down as the Indian Ulloa in Penkertin XIV 315 He marvels that the descendants of the whole Vernovens with to ball (Quote their to show the atter wreck of ancient efforts toward prografi 517 an remarkable Slow but vez persevery - mechanical aptetutes 518. Sebauch - What gamble 520 Neligions inaplitudes 522 Little or no rentered dread of death. & 523 traines the ferrity pentils &

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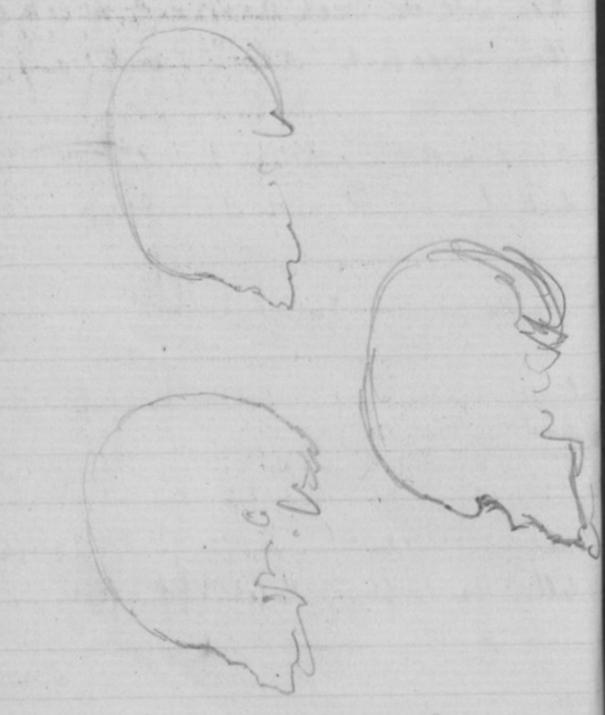
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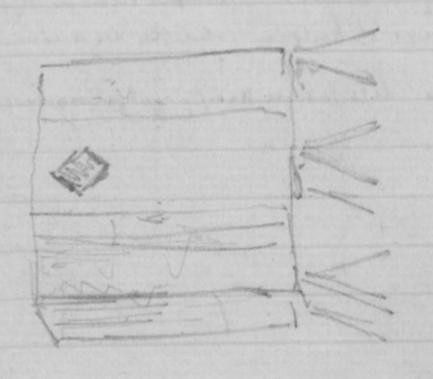


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Lucretius II. 55 " In Even as children are flurried and dread all things in the Horch darkenofs. " Hus we with daylight fear at time, things Tet a Whit There the dreaded than there at Which children thudden in the dark a fang Sare to be. Their terror therefore a darknef (ruin) much be dispelled not by the rays 1 the Fin & ghttering thatti I day but & the aspect aw law of nature"

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**Tim 20. life of clergy o medical men.

(men the letter an exposite cutagores muladres p. 22)

XX. Summar of previous Enjacries 15.
Take of duration of life in the 3 learned people? To

XXII. mean age of Sovereigns Sentry clery lowen h.

1.135 (? a right reference - not in Inhea)

Summary of purious papers 337

Suration of lets as affected & social occupation 355.

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who littled high offices under George III and TV

Thurlor 660. made his brother a bishop. Erskine & his brother Heury excellent jester as ugle as lower also the other had brother as VII Elden brother of L'Slowell judge 1th admirally raised pari fragon - presentes to the King at the some leave are as King, advocate the other as Solitates Garan & to as. both made loss 54 + 3 commissioner Whose hoer one written 1.721 thy Chancellor with book Since & including Heary VIII I. 477. Frankeinel - Hay gambling meat 478 Sexual pession. Womeno men. 400. Crime to property. 486 monomania to steal 496. Crimer of violence Ma genie veritable Est toujours is die, direct d'une Commune vory Shurzheim Virey dordach Burduch et : it ne se revertle point dans da posterité. (references use grown 55%. Eloquence x other qualities bothered as 583. Sculphore - painless - music 601 Janeing 605 Summary. 4. Welandoly Johnson ~ (Lee Buston?) 2. 28 immunit from infectorio Expliction hair on healthy 260 the manting father had beaten bein for

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were important. (399 quotes, Huzzard sur l'assebioration
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bocomes more lofte - min in prover,
Low, of honor Paleer definition sucto 150 as "a System of rules constructed & people of fashion and Calculated to facilitate their intercourse with me a fightiz a duel. _ a debt of honor has precedence over all other debts - Tande rules . - Code of honor away theever (Code I hour allows cheating in selling korses because cherts are appointed with - must do to in human life. Politeuch among Chinese - Socialism Rules I war & Divine rights of Kings titles of Kings Suicede & 1h) Sulles (Sacrifices his human & others) Intanticede h. 183. (Whish Willest the highest motion maternal satisfaction on the (Cruelly is quite an insteach; 181 onwords) Priest Every their is fair in love, monartic life. Then of teste Salverior races inferovoy a org inferior races Theologicates (da Bregiose) Brutateto Advitzmin 10 milbourne Grove West Browne

Coerar Smithis dictionary 554 b' column the several character as fai an the convection of the several characters as fai and the convection of the several characters were notorious to be were syrally laurally of the favorism as the provinces" — 552 Cledholoa had a ton by Coerar whose Coesarion, k 556 was executed 4 order of Augustan. He married h 537 Cledholoa formelia. Poruheia & Calpheuricia Children folia Coesarion by Calphurain married Ch. Poruheias. betody

lat by mik 51.30 log to 7! f. 29r -6 facinh face left 200 20,45 22 22,15. 20,50 1810 21.50 22 18.7 23 185 21,58 24 18158145 18.30 24. 30 28 9 422. 1.50 18.50 2/3 40 1,35-5001: (RE 76 64200 30.45 33 33 x.7 2 34.0 33 30 the fewerend has 31-30 Jetropan Surper Mary 21. lat 51.30 quet works. 34 50 34.55 35 5 Gulmund mand 20 lat. 51.7

Mad Renan Longer Semitiques

1. de Nemusat. Nevae de 2 mondes 1834

Population of Bushe at time of black deall in 1347 has been estimated "at 105. on on a lack of Blacking a high solimate" - Combite may may 1687. Blacking

Mitchell of Oxford is said by Brodrick to have made out that at the W class men of oxford belong to a very timeted member of families.

Prelationships. Itask Taylor's family - The Eregories
Buras & Father. Carlyde & Father & brothers of Sante.
Miltain father wort a sounet a compared some mustic.
Proleuries married staters to ... generations - to sid
the Terrian Kings (A see west page)

Sur 30 generation ago the 10 - centre barbars har our wood at its extreme term keeps surface - a terrible unsocial right, which of the very nature of feward society, was repagnant to over men ago was repagnant to over megality!

Savney Bruce Sevarlight Iroquois Malbers Roberton

bethere an instruct of appration i) Paciting you to deorte both duy v night 6 defotinking in a disprace to many They yield & gambing with such ardony they then the how lost every thing che the place meet, Education like Leneig . - navvy work monstrontie a dogs individual variation Their Erace Mint Kent, Leyes, Shew that pelforting of helely sust briod case, without breach of confiture. Hannibel . Philips Macedon ind: Pholony . Charlemagne . macauley. Coloridge. Sheridan. Pollock. Wordtworth Stephen. Venn. Stanleys. Thompson (math) Gregory may Palgrace. Kingsley. ? Dowson Turner. Luxhingtons Butlers. Hooker. Darwin. Broute, merivale Wordsworth. Pitt He Rothen), Herschol Caroline Wietruck Naturns, Kennedy. Kenned (see A last page)

Some hisbel of rocks in white Planter & ausse tall mine And Testil

f. 32v

Salt seeine Holl in Tyrol not very ford Thanklin be Isle of words on might to x Grining Statut of Common Word wood. 20-4174 Australian quate crushing XX Australian * Landship et Founder stryite Las Iste of Bourbon 144, The the vent shes adam 19 me de 1883 boribliere Presente & Redeline

In Geological Museum Jerneyse ? alism Kay beg Brimele e great + beauty tot a good deal of colorer white about 4th x 2 ft. anverge large los much colored 51/2 x 5/6 I ble jarran 3 × 12 Mr Cenis col 21 Squar X white contour lines I fear to delicale. otherwin a beauty the alfer generally careful model trees wont to. X Selt mine Halstatt bez con

It taule in Indian Ocean motel of bray made by novara some blotches paris. Charts to corredon ladwing 2. Novava - excellent la contras? & with stereorcope. X Bauerkellein Sarty: a haber V Gibraltan Gley lace V. Ish of wight. north stat laye plante under sleeft V monte Nata large in drawer very good 12 Table Mr. Cape Condologue Albyfrinia coarse but efection names Frankfort Open under clel I down of Clare land very com?

Jun J take away Strank Bauerheller Mr Blam Table Bay Aly pinia.

Page - la Plata Southy tale of Paraguay Lettres Editionales (not much) vay 177 Jenil- commenced their miltim 1608 - Expelled 1768 Charlevory seems the authority. 1756. Paris Chrétineau Jolg Histoire de la Compagnie de les Ulloa Von autorio Tableau der Peuplader formées par les letuits, (he discuper unt animont, telle falliers) Sobriz hofer te apiperion (Azara thought it a competation) levent palgeont include with beath of all kind) Charlevoix 8 orbiguy Voltaine (when?) Robertion lellers Sir boodbine Parist lebray. N. Daron. 1658. Relation de l'intique proper de la reliein Chrétien

5a

6. Littlemare atglem 1869.

J Statist. Maladien Mentals thiberty- the word & South Commedicaines to report in Sacrich Madmen in 1847 - My were nearly 4000. - He growth the returns has the returns do not but the returns of not but

Report on Crétimin & Carlo Alberte Turis 184, a foo (Rhue) book (an Ilatian) notter about relieu apparent

Sournal Statis . Soc:

TV. 278 Take is quoted to Say that I Quaken a 300 is intone.

XX Lunation at Sierra Leone - Religious excitement

729 hatint in 11 years.

VII. 310 Thurman. relation biabilit of the 2 Sexes the sheer an seron of Sequend who tetes the case, existing a not occurred. —

to mental devangement was always counteracte by the contolator influence of true relicion. In the tird paroxyou of his disease prages t lod afforded a tem prog tolace and later the ten sense of his Stigateurs a July this Creator arested his apliffed hand in the act of suicide. there is a deal about religion in reference to histerit - migh a cases an wien let the writing been untound - to rund Georg. Tracto allienation mentato - not und Tours asylun Tracks VOCh. Insunt- & dunatic Agylun · Excuired Musin the alienes 2 Renauden alienes Bar Min. Paris 1840? number 1 mad much the Same in all religious \$29. 3 Statution of the Retreat New Everd. 1841 4 Stafford Constitute by them 1864

abenberg retreat for cretims - Paff.

Cause of tolory blows (a report & Governor of Mafrachustelts) Contruct 1858.

Kage x. "nature outraged in the persons of the harents, exacts her femalty from the persons of the family of the heart were hamined.

I then children hour 57th idints were hamined.

It h. quotes Sequen the type of an idiot is one is he work nothing, can do nothing, cannot come desire to do any thing."

New book as enter much to intemperance of havents, but is vague a american.

Causes of Intourty Parois
a popular betwee in Massachusetts

Burrows in Indanty 1878. Tr. 28. Cooper "The morbod leading of Cooper

her find mad Nomanists: mad Lutherans 11:10. a statistical paper & & R Huberts in the State I mental diseases a Denmark (see Towns Thysological mediane July 1858 h 441) Meter that the proposition of iditt, & whome baries considerable with the best big his Soes 1000 the haber elter throws doubt on these labour of the later allowers of the better are allowers balueles" on the extent of the influence of relocion as affecting the chance of recovery a death " p. 34 "this or hope write not be the case in toturo. \$ 37: married - unmarried. Bette len results So ud confirm D' Pritchand - Required, tokich, Elar, an Surman Juchenterana & annuastred page 83. Perverted religion 37 in 435 cares away men Il in 545 away women. These we Justably be get kicker of more was known of the hestor of the Bether patient

alienation mentale Aubanel et Thore 1841 27. Causes no mention of SN. hg. maduely hereditary from 1: 2.89 Esquiral to 1: 15:30 4. Falerus. 175- Eauxer. Leosteri Exalter 5 in 87. Here an 2 cares 1 b. amour contrarice & Frageur. Misère 918 a Chagoin domesti ones of 2h. all the rest are beli in that year 1839. in this 7- years previous beosten was the of 1 in 6/2. Hood Statistics of insant Bethlem Horpital Grow 186h. 1855 1. 30. Relicion persuation of patients admitted a cureble - "Scarces any Meing in more Isticult than to determine the lead in thema a religion on intacity" he quoter Pritchard (? who) taraly Her Prufican Hates on the Policie applear the ong locality where a comparison between Bousmit & Protesting may be fairly instituted. He takes Dafreldoch Rex la Chapelle. Trever Cologne « Cobbect

lug 1864



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GALTON ONDO

Saughan Hawkens dog dog that the fled the lead , the tail of the gettail fthe dog

Dolt like spetts a dre she to kish numbers (& and bold's Enclosure) - tormood of Shott water of Mul, Lewis school sees it swangs as 37 because the was when very with set to copy and a pattern - the dress it swared & and had tooky I again!

Personificationes

Lee lopy book to Charleshore F. 19 - 1wi Dowson - Mufe Ford - W. E Hart - Kag Shuttl: - }

ferson fied Gods Peace standing the getters; Soul blue (us form)

abstract ideas (her (5)

Revivals Productions
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Preferences

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Reserved our large circle of children

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Tarenties by the frenther of children

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Printed & written numbers or word, colored

" achard ann Lloyd

" achard before Jehre order of

2.3 G.G. Butter

Food ann Lloyd

Food of the Starter

5 9. Evien

5 mil Crofofield

1 mil Shuttlework John Hoyd ster Sader French and the Sen Maxwell Lee copy both of notes p. 2-star news Turiell - toiles Mil. Shuttleworth Permitaling abstract idear colored in personified anony mous A (warring tir. weighting is colored, namer letters wall except numerals

not colored number form ictive cound refresent the scale on which the forms come and offices of the forms come and offices of the forms are to the forms in the Plates I II III IV note boy book . J. g. 11 about one third town reversely - two this is incert quadrant is in this eighth part of lie surrounding officere 3 about the snarter are not onodeging left to in Plates. (anonymous A.) Tellor Carpenters rule with a black mark where 56 corner. How Ball a minitering " a cobaciones carpenters Thenders Petros Stific rate with orthe for the Working and is 10. The " cobaciones carpenters alice order the number is at lease but only its positive (Schemberlettes) Charles Sis Rawson Rawron sees not in the figures and what they represent: Ment, Scott i rumared in a line of the one thought of in brought forward. Siles. Charten Coper note book a file. attempt the whether forms are logarithmise I Si Fair lordertune Good laid deterthen. The whole course is dirally voteble cohoners runned are throught of - the latter may be collected fathers or in unerals, it is their place that is force . Cheltenlan Mades Sister (Fig: 18-19) trief-cood Equal limiter mistakes in addition there the conferred Hills Somen form about 18 wiches from his Egg . It meader through mentioned is seen & street those on Each tited it are hope How Heisekharego is a good diagram well described always seen the heart fleen (mit Hersekel)

Seeta Marri manter from is not still but whenever a particular numbers is allerted to the name

seems to lift it in a title as if a particular limb of a chain was lifted & hand from it crown

Seare is not new life I number from faint but description in grow the land lady of the land lady. Stace & his number un horizontals on a ground varge in eller untin , friend their form " I werely weams difficult of least -it is just as Sleward. the dotted line Latitud on the rest. a of lowner (america) that his doubter number forg. . luminood (tehedle) seg temple dot; white ?: Charlestown 23. Nameral as on a clock's face after 12. 20 comes where VIII is Trucklown I is a new tyle 8.

number form not colored f. 4r (7 attennor the figures are colored

number form colored 8.) f.4v number form colored

O'Connor the focuses are cotored

Sustage Siving and figures hel county of do it always with the founds of the runders when he all the runders several numerals are dealt with in their different ways thus 5 and 2 are visualized as in courts: 67 is as commonly wrotten 8 and 10 are both tehrunes both seterally autority without 8 appearing red and 10 black

COLLEGE TON ON PAPERS ON PAPERS ON PAPERS

Probably the clock face has translet do with the Francy It was premonthes)

Years and Twentles colored f. 7r Thought Butter sing him colored lettery - Says they and appear when he thinks of the letters as abstraction more when he pictures them before their arranged in words, also he must be in an idle humans I must be consormed any and appearance.

Kee I suppose I must abstract a prient him, first letter, popular I mirth cel

Kes I subbon I must abstract a print his first letter popular I mirel cet from their about him from Prof: Bagner . (have find this little with the Mustiraline)

De Berlays an Contines of Wiltell as well as contines of the gray led hup Florer Trabel Florer the colours seem to rest in the letters - In common word honeworth cotons are not to be seen

F. 9v See Coly both Notes to Staces Burnish Staces See Coly both Notes to Staces Chellenting Mandi, Se Berley o comm Heredity 18) Edgewith * Voler *

For Park + Plarty

Heavier > Should Not a Gue Booth *

When ber x

Herockel Markoch wood, alice 3 Majdelin Nothand markenesus Dermon Faller & Some mand come in. Thend lady & Gen. Maxwell & her daughter - colored letters out of 73 asked & Herslow (Hakert racquestaics) got in 2 but intig our fame? 5 or 6 hi 1. Herschel. 2 danchter have number forms. En agune Mertly o ? neugelf vivod hower of recalling Somellin tatles.

Cof. Eou Brook says his contin aun Mes and : Grand is the only one I have lover met who had the same sort of memory as my self."

Peace Free flower & L. Macanda

Quaken a esta Hindref.



Evidence of change 20 f. 10v Col: Yale.
Priece had been bractering to ordination colors & began to horized - free freed pleasures
Leeg de Borisboundran
Lelands eye. memore
Vabbades friend a his big 80. His growth a promotive was intoler (colpied)
woodstruit - elands a number form Albert his own age the formt the fing inward with

Osten saclen. mall nie of objects or malined Edgeworth - Schules. the stretchie of the number carne - also achard & Plan Mantin . As omitted Cating in his ledger dreamet of at will a proving correct amongenous quarranteed & without & certain applied to human to be become adjections & the goods to protein fricaque) Jahum file correspondi age - as regards wing 47 51 Ball process of X's from out I aproved has been to every no as an aggregate of mentle them.
Sig . Becketts bed weeklines are made in chard. Brdder dynws simultaneous with will alift know Scenter togally a voites to also (use Schuder) Bidden father - method of calculating by dealing unt numbers as concrete things not northwatical symbols it described fully minutes take the vot xxxv 1247- Children year limit any loss might account a wednesh spotting from the 19 and advances tellisme take to practically gene great report. I trivial in a grander with their spot in the form with their said that rech Hall J. W. Buck Hearing uncerferent Hooks or of a clock or hammer I mentally cross lien out foros of my composition of the way how may without directly consule - I have then consider by cohorender a broke. Many forth in furger return in some Referto he had to make to the Home Office, which must have Sarnett thinks bitsality correlates unt lace of learning language & Bar

Handlow Smullaneon, mental advances from to you do " " Hangring have".

"It letter to the freehead." By as Ither one of line round intide or book through the back of before the season con the transfer of the freehead." - In an easer it is as though the windies combined to object the back of the minimizer of the word two ords. (Acronic thinks winted letters) here Bilder about the standard of the minimizer of the word two ords.

To the first the frame of the modern the word two ords the west of him. Children about the word the word of him. Children afore when a language of the west of him. Children afore when the language of the word of him. Children afore when the word of the standard of the part of him the standard of the standard From above Number viewed as aggregates - Brissian out threes from in - Towers of mental worthing with able to aprile four

Council account for them Gock 22. f. Hv of anony by Willingh

Can account harth is completeled How le most interesting & find out from far the mental produce was first sharted in the mind & Children numeron ofweiting - less hagen a illogical bora Du Cane bermillion Children & in agency companions (mit Hantin) mento Hensberr - clock doring Neeve his views are excellent a should be quoted at leaght. Here I cultivation. Plan about his daughter a the seize somewhole et dix ac zendered the apperboses authoral tell small Sis 7. Pollock recollects his Kings of Sugland time Afrecte huzzle make Broderick Searle - could herhales leave much from half witted hertons. woold Sweeth can never Catodes first introdució may le viewed in may askerts] Baired sees france and clock dial seems long their final lellers; as help have existed will houls it shows that man has a sal tending to false aftocrutions (Leading lines in a produce chouldbe those that the eges follow will by pretent land ward thenks he can account to his numerals must raread totalles, beser dogsel te. avel. diminoes Counters abacus (hutika Shattleworth / creas. measures A leaster (carpenters rate) - A weight (lad Ne beaught one weight and Bonglas - linear may write to most forms - angular revolution as in Charlothenes boy.

Leaster to the boad - was to to abough - getting in in life Dec lady & lit H. Porto among the reference of leaght to Clavers walk of acreage to Pauls fucies to to his a 42 a my lie less direct treorities of the numbers.

Treorities a L. hun cauley. Here is just what the chit suit 3 to with numbers. Caritalnes & Execuperations introved alike to be often recalled - souther other things are to them distinct workline - Themplanes travel - he experiment winking. Municular memory fases by collect with vite trisual a autitory memory - There latter, not to were forthe ore another of most: Granite bee recorded when sail our most - evetic savearing. Spite. Nicknames that stick Topular airs, cast words. I daning phidemies, they me howeith.

The love had much more experience of he will adopt to the new with dways tread the last. Children are told a little of the last. are topsed a lifted a toward - When in is let one over a clift is goes up in a balloon there is always a pleasant new sense of the 2 constituate. What a larger experience flying straining clings must have - hother that hoped free some of small a that fly too have for better intermed sphortunited there we not my for familiary unlike the dimentions of share but for a sufference of west - ottom there. There I they had harmon insultigence their countries could be as 5 to our 3'h and the countries their countries could be as 5 to our 3'h and the countries their countries countries are so the second to be as 5 to our 3'h and the countries are second to the second that the countries are second to the second to th " Phrases like times are a long time making themselves at home in the brain" George Elliot Scenes Clerkife a abbadies 200 logist who is on violet "you see that sad a first of my name (which I withhow) h. The means 4 in the board dialect of the province when I was born, consequent 4 is my raison dieliex d'abbades lett, me of no Jacques Bertillon - number form - garden walk - (a of the helper damed Lordones) Do not like seggents (at like a cafetain) Bound like leaguest, but lake a captain of unconscious of objectuneously

Bridder twicks about face. Use it grew of unconscious of objectuneously

J. Brown has a clear carefulum of the position of the results from the set out sees the talker municipes, as the
optimes andre municipes. He ascribes that t having formed the scheme before he has learned to write by was
hast b pefore he becaut so to - the bears set the others that the formalise of the Scheme begins easy in life.

Challen have marked. Short angle of 15 kerhales alone the fact that I learned the multiplication with a solution of the scheme has a sufficient of that To candolle most prejudices an Mirised from ill conceived efsociation. Less of Friday expelles a salt cellar Econote the interference with which I is often regarded a the shadow or indistinct not of from sent numerals as in G. Sissen's formal formal shade my shade wand exceptivel complicated and this mind a satisfoclos was of accounty to his numeral forces, gove Booth months in linele Jesterty clock face

brown 24 [a concurrence of sub-conscions appointens appears more efficaciones tortendirelie than a few conscions care,]
Toos procedes (1) to be overely recentle 3, tecompose like fix faces before sings is conscional ream, 12, in the toron) d'abbasio Itale second. High second. Pijet to a sixth sence as Joes Min Nature ... I have net seers among the French the Basques & the Chillians. Montane Contrags don - awolo in russoning white darkeit saw a runn strucke heafer mutol while " Hig of Horsboard - not continued by living the found for locked a no une in some Facer on the Bark of Greeke - "Inqueering" Bestond a Showd. Hartley Excension - 15 James Excelle Barroles Si Wo Good at the Plummer of the ligaris - a tronze plateour 8. 9. Hale sends book Cather. 8. Edw. H. Clarke of Bostin Horsford has vition - says that hunger in a lanatic alglim is said & brig them in a refer to broken history circlivation to our of fasting entires Key of Graham's toma has more o tropble when Sun them Hearthow defroy sends a first card to bey the Jaboar part, were not traffering from leances when their benes were strangly deceived manton dreaming of ormitted record. cool art much account balance dream that at a certain function with a cash book are a fam with had not be posted a that the want form wanted. Found it sum but the folio was public as if provided. Turning the ledger found it was not. hit. Mames dream of his chamines. The New George V. Clair writer that a gentleman he know, a Speritualist who died not long ago, well to oftense him that spirits of depayles persons Stopped him in the street o held conversations with him - He and that begin is believed to the persons. (I may no his name) Muf. Nichetts (Vafsav) Taes all dark . wowinds occupied herself might alter night with looking at them. Unfreting interest to the began t think on the art attending to them. I generally have twant to them fritures to come now. My songer brother, I find did exact the same their. I have never shoke to any one clee about it.

(L' Ragleise en corner terting experiences)

d'abbasie not of the 68 men in academie des Science A adoptinguestes bolonist, has no number form, he hater d'instratem ... To an emment physisest is also blank; the is mere possibility or I have an invate objection to Said speculations.

Bevan Bevan Muh Bevingli.

9 Loworth

Madled I think but theatth asked Cother Hill Churchiner

Stewart J. a. (Christolindi)

B. Woodd. Smith

Col- Enle

Howlet a note; heavy number by faminizent his letter and in reply to my Nature letter.

Prece civis the Hot of the newlical band-marter at an live as satisf absorbed in some newly enant (question) has always munic floating in his head of not satisf absorbed in some newhar present is some liver of stents in - a I am second a day-full of it.

New. F. Howlett (collier)

Hullah on realizing armand of written newlice

Standy fewom. Munic is hardly some out of my head

7. Potrie cun always remember abstitutietd

nunic cotored

large extention of color be approvations unt formed which will from the but a laborate the form to be approvations unt formed which will from the book. Huxley a murical first matic spectrum" cant give it a better name.

Social Heuslow heard the other might his name called loudly

COLLEGE TONO PAPERS ON CONDITION CO

my Hersdels one to me

buodecimal masouren were to take the ferromed to y clavery or y'ze ligro turo = casen tooken tucu wen là tuta wan ta tuta wan fu la fir tolsen tele ansantorseg T = Con Filen A = elever Lixen 2 Son 2 E tute lute turn la 2 ×(10) 3 + 2(10) 2 + 2(10) 4 2(10) 0 Serley Cosec Tune lea 6×106+57194+5(143+2 ten cen Garo 6055002 = sides fifter fite the aro Elsen 200% kireloegrof = 1 shoeloe cale: Ca

much preference in thouse to be - the duodecement to steen swould find mind by disfavour them might be antipoted.

J.O. Bever (permits me tract) had weak love at Cambroom - practiced or treating a proceeded be degree "their gained as power of virtualistic mathem: formalos of all kinds to an explaint which would accuse be policified by men who had not my explaince"—"with a normal about train one does bed that which we practice, most and much succept. He could see nating before use he can I part the letter awall en noted with advantage 1. He proceeds lovely at views a tran closing the Eyes.

When Hermphrees leaved his multiplication took by his number foren.

Schuster constants processes—constant offert to watch and emproved. He truster about wholy is in one had, force leath truster, could be larget.

2. authors writer about mil Stower remarkable verbal memory Guylar architald - His mathematical peoples attración spelling with a dichelen exercise Why same therein are remembered f. Bull recolled there of tuentants of interited sheetimen of thembo and doubt if he can be so to 200 differed people with evorly. To tes he has no allenten tille better is not true that wife observes drop with allenten but becorrect it face muce than to dreft, when the absolute forget, - com it fullerus of his own defen.

If seems as of the available that for mental pictures, had become evouded a true was not room to reaver Brossich fail that 900 Hall (rede Bullock) challenced him wothers to name any day during the past 20 years or can reserving the mendone of the marelier's when they called at correct "old gul" W. Erler honcer of refuldación somello of places. He enundrate b es 7. I Cuclfold to Date of arterly be he then is a faculty that belong thirty nervous persons of whom he consider unell on of the acost months their in "Second - with "note the word. Fred: Hairion cannot reporture faces - has felt his ens mothers fathers face Atrongs on meeting Lever "with me the wird word down to fest up of their own accord on to the were one with the idea. For some years I had a copy of Rogel's Thetourns but found it totall neetless. I Croom now to to me the same. I also find it so but I learn the many mersed ideas in the same words is it need - lever distinguisher faces with runel do the cult male there is some distinguisher faces with runel do the cult male there is some marples ("Habit at wellereaci") core too mind on the caprico current of memory Schurte han a very viaid redlection of motion [I only to been had questions about their.] as the rolling a ship art firsteling. a Rolling carriage. [Poets raise sabtle affociations by jungle harmony a rething a thereby from their spicound of the harmony and the north work on harmonical acaliaries] Space memory wer under Ege of once, wit feen funct or or tradition, Time never 2 at Legerence i "I. If will there's set the wits a-working & to remain longer in the memory" (Spectator). The way the mind is held in furpense during a long redice . - (Direction to a calmon;" as renter ful")

From

~ W. Lead, Coopen Hill) number form

Mossoibre sicie a ver good account of the apharent clearnels of his cortunating and cat how it fails to stand exact analysis. (Like the Fheirhten)

loriz Neene

· Noze is full a curion .

volten Sachen is good , moderat, about coloured rumerals

v. Nobert is a ver coad describle be bis form of a introduce x1 0 65

I Schuster et vez amble-der « his is a remadath car of clear voyal?

B. Woodd Smith about minh Knoph. (a humself too)

I stewest is a veg careful description of his way of seeing the form war to far as his complete way of accounting to some number, beginnered in some femine

. - bedderban lind. mud witert his

withink [on marcalar memore] by interesting (a schedule Let)

o gale col.

34	MSS Ma	may G suot	a Where curter	f. 17v
		have		
d'abbadie	66	5 44	Frend 2001; - Frankledy - trief Int many Librails from h	tellers
armbuster	49	126	of in witch E' Native	
architafd Dougles	56	33	Attend as an authority for the diagram whi is & mufo Block also for sail a chearing its own weight.	6
Barnaud A		48		
13	4	49		
Butler ? hor ant				
Bilder George	43	20.	referred from my article in Native , Susti less his fathers big at because, in book the east love on the multiple on he did they to	newlinderly
Butler nu arthi	17	51		
Booth Cof Sore	55	32		
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n hir Lister	18	524		,
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" E	21	62			
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There are call out more

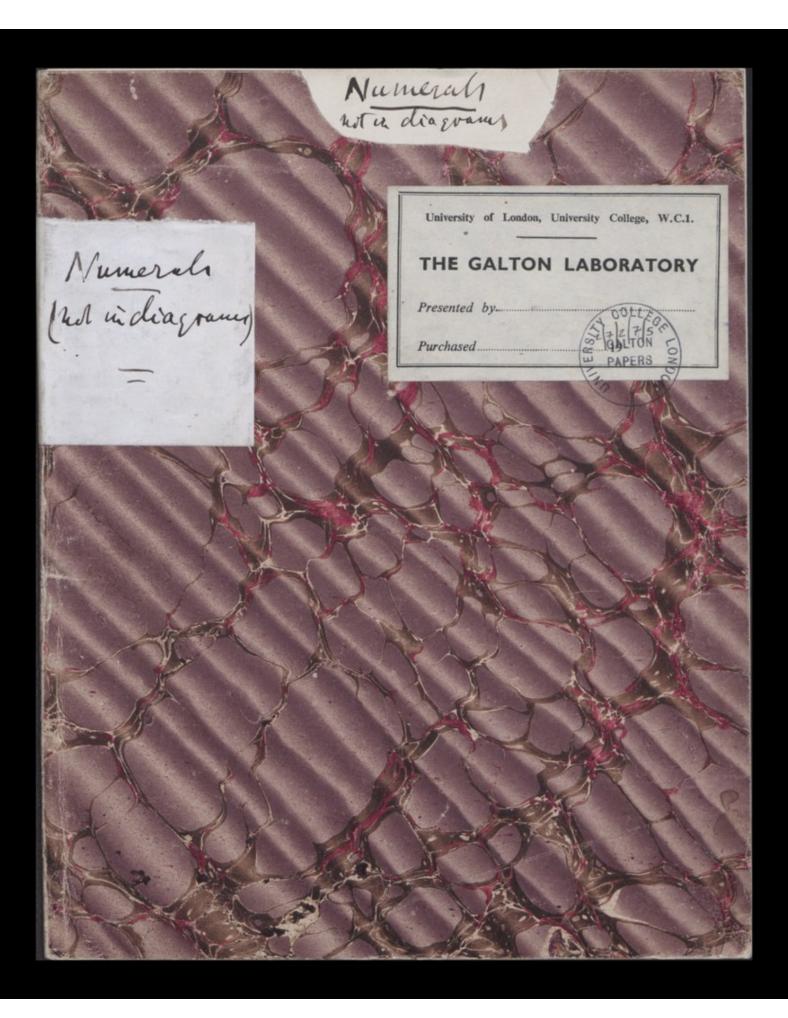
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Petrie (Flinder		34		
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Sanderson Mr.	1			
Schurter Prof		21		
Sewell		5		
Smith Blood		23		
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Stones Sorth		66		
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	/			

In cropy a crimbed threet we may do to without her tation, foretery where the vehicles will be at an Mores of the crafting - Strategy

Marchalt said Schult vi tradices bed unt the Cres of her but in the clark - He is Horton

Stort writed has perhaps is values bettes them any day correspondent. It have him time to perfect
the ways of a herror [see Termyroun ... (eint influed head revious) married 3 - He form as Hawtrey chef.

wing Scheffer told not stolland ... relief on puper Saunders - visualised all person except two o tace an familiar friends, one his me belet when features leave that I might been send love duther o half writed furting. Shute track very form of art a collivate extract faculty council recall a friction - to los no myercal memory on the other hand an anastrack good portral recounty. Read books by sentences rather than by words thinks Evipton (leave corroll aure in worderland) has envired potent to another the is much interested on what I wrote. J. D. W Somers - County ver. all that be got is something which he fancis correspond closel & the schema of which kant heaks in his Kritick, a door of indeterminal form void of cintent. Frank tack images unclear obtrade trumselve witderly with farfixing distindate. Such James (and: 400.) H'm H'm in mathematics anderen Smith for letter about smelling - we would ful wood I smith it wented hecture is aft - Caronar in in many - Sometimes from humself craving for a complete absence of sentations. Event difficult in celling over first can refusion of direction of compage bew South remarked by hower Spotte swooding power wit bit formeture & the enrich show Staces of a potent on but quest person of accoquition - hand con forget a face - Sometimes word images are involuntante. - Her promes therefore debeat on presence of a like impressing a were idea work do - Can'the the interior of a feartier room much better wheatowing Tester a special power of vis? the ortsides of both in thelan in a litrary temple P. C. Can think of nothing except a imaging. all the hour answered it works my mental histories leave rue - (a very word letter I orgit to have a nowered it micely) word ingerly sound a color being connected oring to their having severally the fame sastimal relations [a swages notion of how we will look when he a she soled; ornamens] Samuel Slogd (Princetone returns) describer hyperbolicall his great person of ortuniting at some have been been been been been to carry in tothe in his there. No herristere a reliand of arriving trimaling - may be extremel refer - to continuous will [There are no shate relations in the world of abstract thought. topical memory impores shall relation upon them in what some feel a convenient way of Kerbal memory impores time relations upon them]



Numerals not in diagrams



he working sums mentally lalways see the figures as of actually before me

Humber my seen as arabic rennerals. One line of figures only retained at once

Could (waccurates) multiply 3 ticuses & 3 [evidenty in a visual form]

In went at a the metic I visualite the humeral require in growth of 3 or 4 as needed, memory keeping the store tupboard

If a word such as 5th be spoken I most clearly, early and instantly vitualize the figures. I thank by proclice x contentiation I could protein & hold fast many formers. I do so almost automatically. I percein that when I mention the word thousand or hear of

shoken the figures at once growth themselves together, and I find it quit irrupolately to themselves the addit of a gear without remembering and vitualing the figures through trimbed, higher time good & recembling that commonly limited, to be a tize logal & recembling that commonly used on the top headings of newspapers. I cannot however appreciate a back from they appear truly in space; if that an indefinite term can have any indefinite meaning. I think by practice, a concentration I could hold fast many privates

* 5. Dece tuchworth No feeble power for their always & districtly

X Sin Josep Fagrer MD. FUR Thee the brurer 5th [and can hold fact] how on three him of frurer if I know them well.

Lalways de firmes in a straight line, not many or me



Con see hourer well; Et red of sneeting brett fairy

L'Susanna Ereen I can see severel huès of 3 a 4 Firares

H. Haselee

If I think of a number I see it, but cannot hickine to myself many lives of numbers at one time. I can easily do mental arithmetic of the different Therstinis do not laubrace too many fourer at the same livie

L'au vitualise a fairly long line of tienres. Westal fames by vitualising the sum and putting down the working of it in my minds eye up to Iquare rook with two fixures in the rook and in algebra simple quadratics.

Thee figures but not more than two short lines

William Mullier I conceive 56 as from Evoubed lea lack and one growth of six. I cannot frichere lines of firmer but have no met difficulty with formulae which I been the in the air. I maja mitford Can see a time of focuses, eight a nine in number. No dicided brown of mental antimetic X Norman moore LLD Can multiply with effort to firme, & he as 1490 & 5280, but partly only & image, chiefly men memory hup E.a. Orions

number contituy of not more than four or five frances can be been the firmer that whowards from left to Will.

Noven of mental writhmetic now very how; once when in practice to several year, fair, good.

The numerals are merel, ideal towns and ideal toyets in an way. I have a used to have, very considerable proven of mealub arithmetic and mental algebra, but always used in thought sounds of the light. In the procept I always forgat Every step as some as I had reached the result of that step.

X I can retain several ticuses in my mental view and work examples, seeing every figure in the process

I cannot fricture the number but can healtible 3 frures & 3 (8.8 × 57 h & 349) westally

Spencer Batler

Can see and mentally retain many firmer. Can
multiply 4 bigures by befigures without practice, the
forestion proceeding bitibly in the mind like

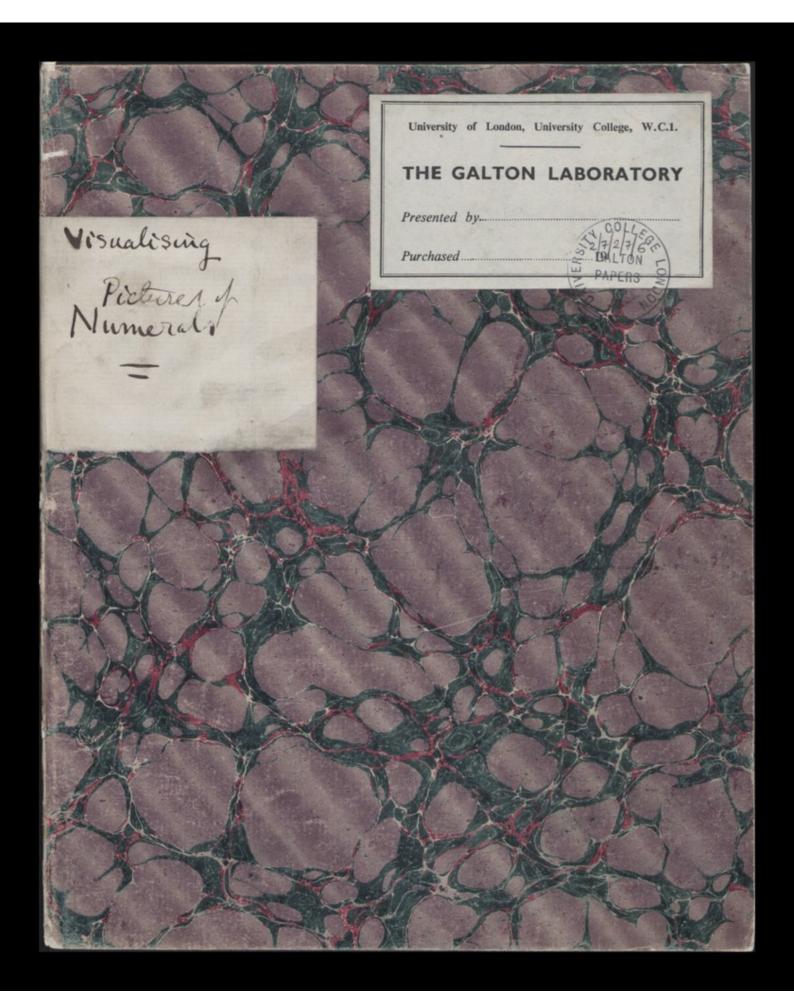
a sam when haper. Have a tenacion memory to firesh.

Ellen Sturge
Can do some mental arithmetic, the
lines appear in the air [colon apocration with mules

Gold facilit in ruestal arithmetic, stronger in youth them of freezed; not only such things as multiplicated humber of 7 a 8 figures each, but long calculations involving ruang different operations. In this the power of vitualising enters but is not of closely adequate. One important factor at all event, in many of the operations included in pour enquiries, is what I may call the geometric focult,—the tented space-relation which may a may not coexist with a power of vioid wind representation. To speak of the only example at hand, I do not theat that I have the bit ash lay home, to any considerable extent, had the remarkable degree but in all the Cales when I am able to answer your greation in the affirmation answer, I observe their states of short-relation the the chief factor.

Michael Carnett
(lee letter can vimalise but does not ate the faculty
a mental arithmetic)





= 13 full hager that of Bilder 22 lines in hour line 9 words in a line 198 = 200 words to a hope. 2600 words altopalli

Nature kestern 72 × 10 = 720 longe Ethe or 4 large estimentyte 80×12 = 600 small 2/2 Double type



(Rachel albright sister 8) huf m Dora albright. Refer to Stacey, couring.] from the very first I have been numerals up to nearly 200, range themselves always in a particular maures, and in thinking of a number it always takes to place in the figure. The more attention I give to the properties of number and their interprelations, the less I am troubled with their clumby trame work In them, but it is in delible in my mends eye even when for a time less consciously so. The higher number are to me guite abstract and unconnected with a shape as far as I remember [a small diagram was appended] In answer to request to falther information Hee add sends a diagram on a larger scale as below, and addr I am sorry to reply time request with to rough and untidy a production. toarting to do d' better, I may lose the ophortunity altogether there is a little difficulty in the performance, because it is only by catching meself at unawares, so t Speak, that me sees what me is quite fure is not affected by temporary imagination I as a whole and in many of the particular what I have in



Lord allright

GALTON CONDON PAPERS NON PAPERS

my minds eye is unchanging in lover circumblina hotting more definitel taken its place than a persons age. The person is utually there as long as their age is in mind & their is the best I can do towards representing What I see I but it does not seem much like, chiefly perhaps because at that never been in the flat but in a thick dark gree atmosphere despening in certain harts especially where I emerger and about 20. How I get pour 100 ± 120, I hardly know, though if I could require those figures a few times som notice about 200 I lose any tramework I do not see the actual figures very districtly but what there is of them is distinguished lim the dark by the thin whiteish tracing; it is the They take and the shape they make Collecteoil which is invariable; also the shading. the tize I cound determine

Much Rachel anna albright [sister to(1)] I always see the figures distinctly. I see figures ascending in a direct perpendicular line in front of my eyes In reply to request for further informalin her sister Dorn worder his sister says the does not see her line of Figures in any particular colour and thinks a drawing would not give any more idea. In She subrequents lend a rough sketch

f. 4v Isabella. J. Clemes (humeraly have no figure). They define the relative hostin of houter in an ascending scale in reply to recuest to further explanation, she I should have said that rumerals define the relative positions of points in an ascending and descending scale, for my scale is a geometrical line, having neither breadth nor colour, but only length, which is infinite. When whole number are contidered there is no perceptible distance between consecutive numbers, but in the case of Fractions the line is stretched out like an elastic Hring. Similarly a hundred in Comparison with a thousand approaches very Was the zero point, but in comparison with in herfeetly flexible. I throw it out as a Straight line to image the said distance, or I twist it round the earth to see the earthy circum. - ference. The accompanging figure () lies in a vertical plane and is the picture seen in counting. The Zero hour never moves, it is in my mind; it is

7tg(1 1.5r that point in space Known as here, while berlical all other points are outside or there. When I was a child the zero front began the curve, now it is a fixed point in an infinite circle, the finite beads being neglected in comparing -1900 -100 with infinity. I have had the -100.000 ar long as I can remember and imagine Cach bend must mark a stage in early etucation. You see it is absent from the negative Side of the scale which has been added since childhood. I need hardly say the figure has been drawn to fit the hoper and not at all to scale. Beyond a million the line runs out & planets, the sun & Starr. To mage these distances I move along the line making the light grow very Evaduell In some calculations I see the nearest hundred as the projection of the zero bout in a horizontal line and the numeral repeat themselves as in the first hundred. The Fig 2 will represent Fix 2 is an instantaneous horten of the scale

Continued Mip 27. Clemes in motion. at the commencement of an operation the line of hundreds moves horiz outally until the hundred wanted is vertically above zero, the lower hundred at the same time bead round and wound and become confirefeed into the perpendicular, their aftering the vertical distance of the line of hundreds. The line above the starting hundred twists into the form of the first hundred as in fig 2. Only two hundreds are Leen at a true; as the next highest hundred enters at the lot the lower hundred moves into the horijostil perpendicular

George Darwin FUS (late Fellers Frie Coll Cambridge) the numbers 1,23 he are a straight wow and I am standing a little in me sode and they go away in the distance so that loo is the furthest number I can see distinctly, It is dusky grey and paler near to me; wh to 20 it occupies a disproportionale size. there are sorts of lumps at the tens. these fictures Tatro those of rear a goester not wi my mind as formery. The bractice of working writtenelic has rather expelled them. all arithmetical processes performed, mentally are exactly the processes I should perform in paker. He authorized me trustert woolly befor humber Dec 18. He taid be cooled not make a friction that would much aid the description

When a child I counted by means of imaginary cards from ace to 10. My little boy in the same way used an imaginary dominoe

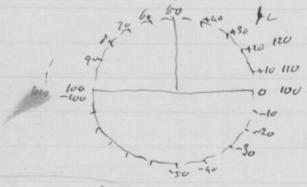
F. 8v

Must margaret de Gaudrion Merri field

I endore a diagram showing the potetion some
humerals appear to me to have. I think of the
numbers between low and 1000 as totaled on a

Circle like the one I have drawn for those believes
O and 100 - after 1000 I can afrigan them no
definite place

In reply to regred for Caplanation the cords:



? in concentric Circles

hunerals are always hickned in a thraight him home left to right, becoming shady from 11 to 20 and from 1000 to 2000, clearest from 1 to 10, from 20 tho. — [In refl to toqueries too further, information]

123456709 10 — a to an horizontally the numbers are black on a ground varying in allumination, bright who to then getting very thends from 10 to 20, 20 to 40 bright, 40 to 60 moderate, 60 to 80 thody. Shadiest are 10 to 20, 60 to 80 in 901 1000 to 2000, Bright the millown in a vague bright dittage to the 2001.

1 to the 30 ho so he ser pollings for

I have I histers and our brother and they will I know be hope, I describe their manner of vrouding but his albright is my fathers to their & I have asked their albright to find out of her mother & her mothers betters resemble end other in their respect. I have also written to my mothers histers to find out how they vitualize [Her description of her own unagery is:-]

The figures present themselves in lines us est etc.

20 10

they are about it with it length and in ordinary type. They are black in a white ground. 200 generally takes the place of 100 and obliterates it. There is no light or shade and the picture is invarrible

F. 12v anna Staces [tester to d, 9 x 10] Figures always stand out distinctly in the arabic character; they are black in a while ground, of their size "9" 40 " but the numeral 19 is smaller than the rest.

J. Ward (Fellow of Trin Coll Carab)

the numerals 12,3 4,5 - how the hart the place in the multiplicate table, have been person fied by me from Childhood. 9 is a wonderful being of whom I felt almost afraid, & I look to his write, and there used always to seem a fitness in 9 x 9 being so much more than 8 x 8. 7 again is mescaline; 6 of no harticular sex but gentle and straight forward; 3 a flebh edition of 9 and querally mean; 2 young 9 sprightly on good lèssus with every body; I a common place dradge. In their style the whole multiplication table countitled of the action of living persons, whom I liked or distilled, and who had though only vaguely, hum an former

number I picture in growth; thun 5 is sometimes; so it to rows of 10, be when I think of the factors of a number I conceive them littles as marked in a line or as growpings, as 32 4 1 1 . a prime number suggests a line; odd numbers angles; even Smoothnep, de,

mil alice woods (Eirlin) all numerals occupy a certain definite place in my mind and appear as written. They are not clearly written and I do not even always think of them as written. beg high numbers are quite confused and out of order. Some numbers tugged colour, thus by suggests blue. The lower numbers have spaces between them and they get closer and closer together as they are long stoping line with irregularities now and then . When I think of the I withuntly refer it to the place in the line of vision.

I have vever taken much pains in drawing approximatel correct of the term 'correct' is at all applicable. The number been tappioad more closel as I ascend from 10 € 20,30, 30 ho be the lines embracing a 10 20/

Theodore there

handred humben also heem to disserapproach as I go in & 4000, 500, -- 1000. Begand the direction of the arrow loting itself in Jarbuels
[by] the million. Any thecial number of thorntands

f. 16r

returns in my mind to its fronteen in the parallel lines from 1 to 1000.

The diagram was present in my mind from larly childhood. I remember that I learned the multiplicate in table to reference tot, at the age of I in I.

I need hardly say that the impression is not me of a herfectly straight line. I have therefore used his rules in drawing it



hom! Browne (ha? contin who see colour telle the annexed two Columns of ful End & end refirement how I see the numbers from 1 + 140. There is no break afr & 30, & none from 90 £ 130, but I think this is because the three firmer at loo make a sort of break of themselves, lefter the true go on regularly, but further off the firmer are not one above the other as they appear here, but are begond the other, stretching away with space, about z wich long, light grey on a darker brownith gre ground after describig her various shortened operation in mental arithmetic she add, :-] the G we along my vitual line Thun 7 6 28, I should at one time have worked them so, viz 29,30,31,32,33,34,39, changing the boot tish of course at 30 (according the drawing) and calling Each of there numbers montally by its own name, remem. -bering how for I had got in the accumple thement I my tack of counting 7 of them by a theer Effort 1 memory.

George Bidder & C One of the work curious feculiardies in my own Care is the arrangement of the arithmetical numeral Theor sketched their to the best of my ability. Every member (at least within the first thousand and afterward thousands take the place of units) is always thought of by me in its own definite place in the series, where it has if I may say to, a home and an individuality. I thould however qualify this by saying that when I am multiplying together two large members my mind is engrossed in the operation and the idea of locality in the heries to the moment sinks out of priminence

diagram roughly follows the arrangement of figures in a clock face and I am inclined think that may have in part the unconscious source of it, but I have been always been atterfy at a lofs to account for the abrapt

Change at 10 and again at 12. Unave at liberty to use this letter and any hast of it

we are was you think fit.

Maria turrell

I do not vitualise the numerals at all up t 20. about that number as far as 100.

they represent themselves to me as vertical lines in a straight row, the tens being hercefibly durker and broader than the test and casting

a Hight shadow the right. I add by noting

the portion of the strokes with reference to the

See lette about colonne (word)

wared ten.

alice woods

Wife Other Energy the latter of the latter in the latter of day with form the latter of the latter of the latter of the latter. I fefrice is day relation to Each other in value for intrance 56 is represented in the space as form the half of loo; a hundred view suffering four of wite space a certain distance and as any figure is the curve to shorten I see it in its place, the I see none of the others as to looked I must figure. They start as mightly writh I and are obliged to whom I am make a curve in order to be seen. I chand mentally see here alone, ho any line of figures, so cannot do mental arithmetic above it is all the numbers for the specked to show their places not that I permanently see them, I only see those that are having might the whole line very slightly slopes approach and all the figures are in the same plane

Mr. H. F. (Sliga) byler

I see there figures un the air 1205 100 for product to low the line are only

to 120. The Hooded pencil lines are only

ful to shew the difference of level. No colours are visible

Jefrie Otler set 10 day: 1 above

he numeral appear as colored from its their and they are and they alway, take the agrangement their and they alway, take the agrangement their being above. The unit, run who straight in front of her, they being back of an indice (described as amounts; to about ho from a hosignatal place from an indice (described as amounts; to about ho from a hosignatal place from and to their containing up to the 12. Then they go off horry shelds to common the left what 20, from whence they grandly rice and lecede to the low of conducated which is taken a long way off by an effort she looks before the low (they are instruments used with receiving the gray off more horry shelds) have according to the above agrangement.

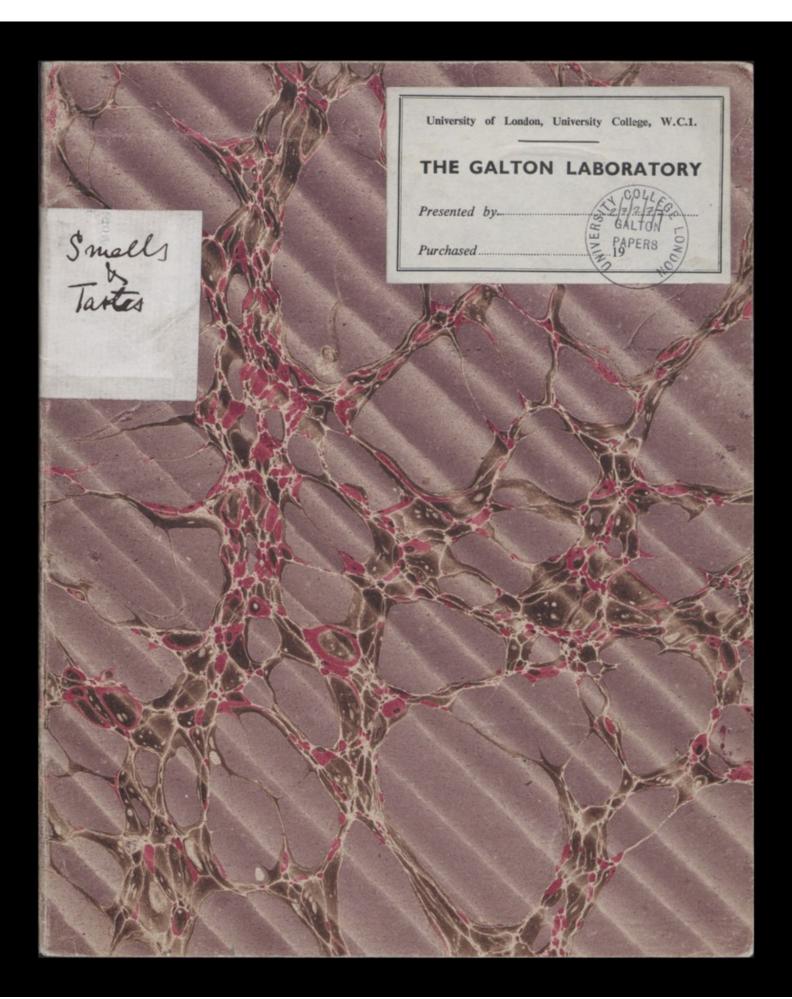
Mus affred (Catherine) Other and or tubbrack the figures in my minds eye run in the same form thus and beyond too recommended before to be said of an isolated floure be mentioned, the image is frequently in hunted words; for instance if reminded in questioned as to my own age I invariably see twenty-six.

See also Mª Heury Ball Barm von Osten Sochen. No dragoun tab many strong color afreciations Waller Larden Le nert fry 20 16 bood Smith Endy Memberwich (communicated by Neo- T. H. Waller 120 Gustao Mars " his daughter Schuster 3 hu? Bostock Mufi Du Cane no stagoon (al object a colon

W. Henry Ball - Number I in my mind appears as the divi- tort rule. The wind is 10 and the intermediate half is very distinct always.	seins in a carpenters two
Edmund Hills lader love en. 5/	
70 120	
C. armbrister 30 20	
Woodd Smith " 10 100 170 200	No The works
	iou · · · · · · · · · · · · · · · · · · ·
3/9	
Mufi Martineau description 1	
120 10	
Munian Leare	
hon (no nemeral wit)	
walter Larden 20	
Jane Wills 200 (for deolor)	
1	

f. 22 Mule Shoen Vocter Eastave Plary and pair xoanglite hul Cat Herseld autorie d'abbasie Gradalbarie 45 120 --Res- 7. H. Waller hu? Tanner 1925 39 itall.





There are the best marked cases out of about 150 reliving



On airy

Othery. V. Edock, very sharply defined, complete, natural colorus

Swinds alling Sound Perfect horver of realization of voices of a

bast number of hertins, whether heard once or often

Smelly Estremely viorio, for more to them objects

Taster ditto

Millicent Leth bridge

V. Fairly clear, sharp, some points obtrude, colours distinct
Tomer forme Fairly well
Smells Very much more vivid than my vitaalisy powers
Tasles Yes.

Lady Frances Legge

V. Ohly fairly clear, Some distinct some vague, near object, complete colon quite
Tones from, Very Hima
Smells More vivid than objects
Tasles. Left stray than twells

Sir lotelik Fayver MD FILS

U. Fairly clear immediated in front, some ord, ever should oblined, not at
all equally clear some are recalled with an effect. Fairly distinct but accuracy longer

Town 1 voices. Some I think I hear now though I have not heard them for clean

Smelly. Very briving I the be nameded if I allowed my memory to dwell

Tasler I can imagine y recall them well. I could make my month water

by thinking I lemon juice.

Mile 7. Hudson

V Fairly clear all detail, are seen but some after an effort while others obtinge.
Toward voices I can remember those that are unusual

Smells I can recall them bibibly, (they both influence my imagination Tasles) Strongly a taggest locality a circum stance)

huls heart

U. Slan see in faccepin the breakfact table of two familian houses, haltern of the china, there of kettle lea pot he, I see it all broughtly because they have arrested my attention.

Smells yes, as vivid both, as mental vision

Tasles of

Ferench Pollock

V. Fairly clear well defined but attention has the directed to different parts in faccepia, to Call of the whole, color natural. Tower of boiles

Smell & all these vivid; cuite as mud so as tight (Peculiar Tarter & hower of calling of local afrociation as remarked & 2 n 3 wroters, o.w. Holmer Lothers.

We mathews

Time Detaits of breakfact table, when the scene is reflected on, are fairly defined a complete

Timer (voices) an about on a par with the sense of sight, except

Smells Mutice I have difficulty in recalling airs.

Taster

D'Esce Dackworth MD

V. Quete clear, all object an thought defined, colour cust distinct o natural Times of voices. Perfectly Can recall with minutenely scenes faces, odown flowers, when their faces of over flowers, when their dividing first decade within my first decade within my first decade within my third year.

People Croom Noberlson

V. Fairly clear and not incom purable with the actual teene, aft to become fairly when particularly attended to. Sharpy lumph defined of first you all equally distinct at once, the Cyr paper over them in fucespiece a sach before out of view more rapidly than a dister whim - Coloan distinct Tomes of voices. Very distinct representation

Smelly libert cand power of representing the various taste, a smells to not Taste, before the colour in trimaliting

F. 4V

W. Clear, my Highty left vivid than leading, Sharpy deliner complete colors.

Tomer of vorces very real a (maire vivid) To think I scratching a state penex is
Smelly an equal in vivid rep to bject, vitualesed almost or penetry on the reality.

Tables Distinct & vivid

Musi Ryland

V. I can distinctly recall actual scenes - I am by a I can recall the rooms their furniture the leathern of the carpets a paper of the walls in 5 different houses in which I reason went from the time I was 8 years old - the object are distinctly defined the details are seen with equal clearness, atta covern are central distinct and matural

Tones of voices. I can latify recall them.

Smells I recall smells and faster as readily or I can visualize taster objects.

hus Frederick Pollock

V. The vitim is decidedly dinimen them the actual treal as if Even in two light or blight fog. Mostly defined (so far as kiforble is a fog - Complete as in a real scene (but as in a real scene only a soluted hast of field of view is distinct at once. Way distinct

Toner of voices very diffinet Smells as distinct as tight Tasking not so distinct but fretty viveil

V Fairly clear, well defined some object not vitualized except le aid of memory. Colours natural

Toner of voices Can recognise them Saint but cound recall them to well. Smelly In most cares nearly as vivid as when the objects are present. Tastes Tastes land recalled.

William Southall

V. Fairly clear, moderated will defined, fretty complete colorn fairly natural

Toner of voices broking reterms; weither good nor bad

Smelly thave lost my sense of smell for Several years but reterm most

distinctly the oborrs of those you meatin and a great many others.

Taste, Taste somewhat improved, but known very many; not perhabit

quite so well as smells.

Nev-Challer J. Young

V. Fairly clear, sharply detined, as much vitualised as was noticed, with completenels - colour recalled

Toner forces I can recall x initate the times of voices Even without previous study

Smells. Vivid recollection x reproduction of smells

Tasles. Ortto - & to.

Mr. R. Haselee

The can recall any single object or growth of objects but - not the whole breakfast table at once, our table is a long me, I can in my rained has my eyes all closen the table and her the different things distinctly but not the whole table at once - Colours wretty districtly but not halleren

Taster being pretty sentitive.

Much Dora Albright

V. An teene usticed previoud is as bright and clear in the seestleder as the actual with regular the breakfast room of the morning every delast in district

Sener of voices like faces, I can smeline recall perfectly but sometimes, first.

Jan now I can bear the natural true of voice of every voing that I can think for being acquainted with

Smells. Necotlecten of smell in cases mentioned and in smular mer in guite vivold.

Tatles The same unt regard thatter.

W. The illumination is only partially diffused, it seems!

The focused on whatever hart I mentally turn to all else is dring.

Token of voices I can recall times of voices with great vibroliess.

Smelly. I can recall all the finelly you mention except dotch water which I think is too various to individualie.

Taken the same, I am weak in the boint of them salts not have often insulged in them.

Fran von Bock mann

I I see all things on the breakfact table with Equal clearnels and very different; nothing appears to me as a brotch.

Tower forces. I can to thinch took them to mind. I can recall my falled voice, which I have not heard for 27 years, very distinctly Smells. It is the same until the beat of smelling. I distinctly distinguish Taster (nothing town)

Lady a Evergina Legge V. mod distinct, well defined but some obtrade (anthourn)

Touch ources beg strong
Smelle og word
Tades og strong.

Laura Ballen-Smith

V. almost as bright as actual scene & most of the objects are clearly defined - colour cute different material

Towerd voices can recall them fretty, accurated
Smells, Nebrusentation of the finell in long case but verbenery,
Tader Very vivid representation in Each case

Montaga Robb

V. quita clear in some instances quite as bright as the actual scene the objection sharply defined, but the centre of the table seems cleaver them the extremities. Colours purt I think,

Toner poorces la familia, caces

Smells. Verbena not, but in the other carer cut distinctly

Tarles. In all the instance, wentined, I can.

margaret Pope

Tone for objects at the nearer but are clear, the others are very view (the table is long) - definition intrinat - image very unequal. - Colorn are cut to there but to late cloth abbenging.

Toner forices but of thirst when affricated but something sho lead.

Smells. Six of those mentioned [verbena is not me] are vivod, the rest intrincional than the rest unknown a indictinct.

Trancer Pridham

V. Image fairl defined clear object thankly defined and details are seen clearly attender are trained

Times of voices Can recall any voice when I think of the perton

Fruelly. Can recall every timel mealined

Tailer an ony distinct

Wife Edith Denman

V. The brightness of the friction of the breakfact table is not comharable with the seather actual scene, the colours are distinct
but thistly more substituted them national

Times of voices. I can recal at will, Generally faintly but
simultanish very distinctly

Smells? Firstinett recall at any time

Taster? Firstinett recall at any time

V. The win a genere different at de Herent times - the images I shall describe in fairl, clear a stand out account a black ground - The blacker the ground the bright, the image. - Object sharply defined a liter colour distinct

Trues of borces Soon recognite the time, of a voice Smelly. The smell of a fur coal & of leaveed ver diffinely recalled Today. The representation of all the things remained is vivid V. husting of the breakfact lable their morning all the objects are fairly clear a as bright as the actual scene! - They are sharply defined, quite complete & in proper perspective! The colour are distant a natural.

Town of voices my recollection of voices in better than that of faces. I touch their arises from my being short would

Smelly I can recall smells vividly when afrociated with the objects which cause them, In all faces I am obliged to think first I the objects - 19 tax first forged; a tax backet -larsed raylings with important for me to finell in my imagination any vorus in the abolivated Tatles as above, except that tatles are mind more vivid to me them smells,

Nes / Venn

T. The image to too faint as to be temple incomparable yet the formation reality.

Jour on reflection elecit a definition - but imagination aids.

Timer (boices I can realise them pretty well, at least of many of my Frig Smelly I can reallise clearly all the instances quain but he no standard of comparision between them a the sights

Must Army Leigh Smith

V. Fairly clear & diffinity within my large of obtained brigar which is short a writing that rance the are been track. Colored thirthmet.

There of voices I can recal irecised voices

Smells can recall 5 of the 12 precised I man less precised, the less wolded tables prime of them precisely the others three and at all

V. The image of the part under altertem in fairly clear for a small space in the centre of the field of view, the brightness is legal the lead scene Mry alterten has to be directed to brack find the letter in truccepium when the imace of that part becomes clear & dea seems with object in it struct. — I can see the whole tatte on a new scene, my treat it is the memory of distins a separate gloncer any used which I can recall, the first of the small of said of the tuning mentioned becomes perceptly and their of them. I find their scene very strong in recaller ideas previously apposited with certain finelly.

Tasler I cannot really taste until I or malite the full take Egy. I hard recall the taste of tall until I see the wheth cryptal.

T. W. Erle

V. I can see in breakfast table or any equally familias they with my minds eye quete as well in all particulars as I edge do of the seallify is before we.

Times of voices. I can recall them campleted - not only these of my free's true immunerable over of barristers xothers at the trackonogs smells I can realise them in imagination very completely.

Adote Vruaburg

**Tackly clear, object an delined but not thearby to.

Smells blearant in unpleadant seem unufuelly to try me.

Takes takes I remember but too well

Evaluer Gallon

V. Fairly clear, thankly defined - tout malural - I
feel that us, brain feer the object, but not the office
nerve.

Toner d'orien. Quick, mon forget

Smells. Voord. Goed ortgust at the perfleatant mes.

on seeing a kerten sick in board attenuer

Tailer Vivid. le person talking of taking medicine creates

disgust a stotes the affectite instantly however bunger

I may have been

Kufi P3- Loz.

V. Clear & refraid. fame which were from hoticed harticularly at the time I are more prominent than others or smells the men which are gut familiar are as broid or in leading.

Tarles hot violed at all.

Mul. a. E. Loy

T. Perfect clear sharply defened squalf destant

Toner dvorce, ho very distant redbecter.

Smells fairly distant, that of tobacco more to them

aux thing else

Tarter Vory distant

Mufy Ellen Porter

V Munge eleas illumination bright as legands the object contemplated. Servorades object, seem in thade Sharply defined. The had I look at is clear as in the actual seems, wholes in actual virtien I am conscious of the porteins of the object, and welmade contemplated. Every thing is a little smaller than life, but all is in exact proportion

Torend voices hemember them very distinctly [? as telepreculation]

Smally Can recall any finell, but not very vivilly

Tailey. Parte is not very vivid but still I can be all with to beauty

articlaids. I have no afformation with any latter like I have with time!

Meyler S. S. Marray

V. Pretty clear scare an sharply believed others not. The maje
is querally timaller than the reallity

Toner dvoices I recold tone, very plainty

smells very plainty indeed.

University of London, University College, W.C.1.

THE GALTON LABORATORY

Presented by

Purchased

Purchased

Purchased

Totales June 1/80 7. Galten 42 Nortland Pate Lelected Cellers Wormen

Mr. Fawcett

F. Foroke

Alice Garoner

Aufr Conblaver Herochel

Anna Lloyd

Charlotte O' Vrnein

Anonyma Pools Charlesternes

Charlotte Normanes

Sarah Anne Stone (memory)

Marcia Turall



K Swood o.

			Scen	ery							
mash	Recolle					k r			flower		
a b c d e f	Vice Evo	vid (r ally rely s	good, faint	harily event) coryne	k 2	y S	ivid fem fame a feme a fescri	unas uter good se	follow follower in h	devering for	Jense Lines
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e				./	3 2		3	90			
notelion				5	3/			96		niedial	
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Patal	30	5	6 1	3 7	1907 17	99			w	qual.	4
					82 89					Soct	2

Peculiarities. not those most liked; anna Staces; lily Starge; adula Bankry Those the Known well; - mily Hendow.

Can recognia Caiz and recall hulp backworth

a astranding howop howhole ms		
6 Print clear sein & awhither in mine		Place in page redlicted well
d unferfeelt teen ma few lines	94	" inherfect
e a nure blar na few words	/	
f by faint in nime o nothing		

	h	k	. L	m	n	. 0	relievin	Total	Corrected Total	median
a	2							2	2 2	upper 1
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1						13		13	13	median
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u	2	. 9	8	19	11	18	15	82	79	b quar of
2001			20	returns	in the	New 1	chemles	17		6 ode
orrected Polit	2 2	9 11	8	19	11	18	. 75	98 4		a-6 S.oct

79 Lenes 1 5; 10; 20, 40; 60; 70, 75; 79 67 serves 1 4 8 17 34 51 59 63 67

Peculiantein maria Turrell; known; words or an seen m. Forthe F. Forthe water poetry, not proce.

	Illiminatoin	Definition	Coloury
a	natural	natural	natural
6	nearly ar brich, or partiet	news well refine	near exact
c	decided 4 left bright fairly	not well defined	ned exact
d	decoded by left bright fairly never other worther then fairly	worstind	fairt
e	be faint in zero.	zero	none

First 13 (Ch. A. Sistt 1

In order allows mrs Bostock

tis all the marked more Bettany

Suchties.

More Bettany

Shout taking Eleanor Burk

the practical for the gracket of the practical of the market fallow

Wera C. Gallon

Towke

May Halkett

Sthele C. Gallon

Wellen Clerkman

Hen Me & Bergle

GALTON LOW PAPERS PAPERS

Dora allricht

(Her morten sister is a mife Stacey - her mothers brother is falter of the votes Staceys

bis (a) of all things noticed a otherwise in paper, throught they are vague be dimmer and smaller than sealling.

Difficulty in following geogra: lescrir blins of sceners, they winces

are always fine

Number form: "I find that thinking about it so much an I have lated ness leftened its distinctuely altocether." — compare unt her phrase about it is only by catching meself unewares..."

Rachel Albright

Vis" (b-c), but (a) as regards numerals and cards

Scenes I have writnessed in trouble are greatly more difficult them any we ording life.

Number form interfed: a vertial line prom 1 5 1000, then I believe they learn to the 19/4 hand.

albight - Stace, family

X = my Stace mil Stace 94 Stace; = 0

albora Rashel Jennette Eleann Connor brother

mil Bevington mary allen

vis -(a-d.) #

Kate andrews

com & hup Cooker

vis (b)

comif willing

(b-c)

'The greater offert I make the brighter the image becomes'

Number form. Horizontal from left & richt; black figures in a whit cooled

alice Balfour

wom (a-6)

"A seme arries in my mind so clear that I think I could draw it; but it I try too to I fait, which proves that the mase is my mind is really less distinct than I minagine."

(a)

" some with extents of landscape are visualies with much brighter thumaten than others to what water I cound let!"

Construct faction except aller insure that there along latices

(a-d) sog c.

"cannot recall features except alter in mediate strervaler, but ear recognize faces with extreme facility"

(a) bul uncertain

Image occasional brights them the reallity

Can only see a few words of actual print at a time, "unless

I squint mentally"

When I have seen a person in any both time I can recall being

in it but not otherwise

(A) to judge by the aperances of her hurband and herself, but my testing was a sad for ture; perhaps the was themen out & it.

"I have frewently read aloud quet correctly for an hour at a livie and have truck another feece of the faces truck to or or I've as t definion we I all conscionships of what I was reading"

hup Jex Blake (such young)

(b-e) ne

Mumber forme Only I withe left appear corner, 1000 in the centre of the field of view and 100,000 in my procket, are vitualited at all.

(A) Fran v Boechman

com & rut Cooper

bez complete all through, though not mention of descriptions of sceners workly sec.

nos Bostock

An usung so

berg complete except in scenery be from description, where the is some what deficient ("do not sand imagine...")

Number form " set 55. Dary shot life... gust unvaried"

Dater. Kings of lundar learn them to loo in the look of all test why "

not according toway sheleard them. "

Themalism hable."

How mit Boyle

(A.1

Can see att once all round the room and behind ry chair meither mental mages appear to be exact, where they ere in really, neither, in the head nor ryeball

Fixing the mind's ege in Scruething lands to make the unage grow dim for the moment

Colour aprocenting with mumbers.

accounts of children's feelings a hallucinations in her letter, the fund these dwell in the menory for more than facts.

huz Browne

vez complete - her ont faiture is inaccurate memory.

Image so not grow brighter & being retained - forcing the min's to keels I there fatigues" like theying to think out a thing I count growth."

In the image of a herring his "action is not at all restricted I been sheller in the dark in when shutting my liver timese or without the head but it comprises a view of herself, rather fainter than the furtionalists

Number form. "Here is no variation from a perfect showell him?"

Days of the week

adele Bunbury

(a)

nothing harticular

Elinor Busk

A. complete, excell ix some unreadried, to follow deterriptions

(mrs) &

Ellen Busk

a

All vivid & defined, but has a look of being for old a somewhat smaller"
history owing to vivid presentation of somewhat word and the fruited pages are imaged
Foresees about 14 moves is chef (without "the word an image of the board"

Frances Book

(a) facts a little will farmiture a reography, though clearly following leteraptions of scenery.

(a) Overti clear defined "and in due perspective"

fait a little with formulaire feenery a geography

(b) - Fait in dehnetim, fasurtine, descript of sceners

(a) in what interest; her.

faits in recalling features - can recall expression

Isabella & Clemes

(b) very defined in what interests, but want of brightness

Leatures are indistinct but the image change portion at with.

Can see the working part of a machine but not the frame work.

Secondarient firmer grow is move as thought adds conditions, said the of the change marked & a distinct addition the fricture. how councident points are kept distinct.

"Econety is my socilest delight."

mils Copper Head mistrely of High school to girls lift bastar (a) Factories there :- In respect to extent of field of view "I am much strongly "unfriefred with the lengt of Short sighted rules than I am in that lafe".—
Images of what have never been seen but and drawn from determitions "always "hoodrice the feeling that they are imadequate.— Thinks her bis howers are high.

She sends autions from 8 out of her Denglish mistrefres a 1 Serman "his Hanken 2.9, inchestry huself, D that she all snels to se turner & mistrages in Tooks 2.9, enclosing herself, D that she all snels to se turner & mistrages in the seed 5. green In the seed 5. green In the seed 5. green In the seed in the seed

Catherine Corfe.

(com? & mil Cooker)

(6) rather dim ill defined, some objects much more promined than

hup Constenay

6,

"I hold the image in my mind, not in my lye"

I have a simpular inability to recall the least features

Soon of my most intimate friends a council draw could

from memory though I have a correct by to form"

When recovery from nervous fever I distinctly saw, in

light, in ages wil I could dishere by an effort I will.

hup J. K. Favier.

(b-c)

(a) (The Whroting king quarted a carefully mosterate)

I mage more like the reflection in a mirror or produce therein

4 a magic lanthorn

A mental glance will take in the whole focus but when a hou

a mental glance will take in the whole feed, but when a paule is made to observe more closely the whole becomes less clear & the mental vision has to be concentrated on a small space at a time, to obtain distinctuely — It dimmishes the field of view I a telescope

Imager herhaler Scarcely solid a fixed Easigh thetal.

Edith Denman

6-c) went generally except on t general Elfects of Scener

Some persons I can recall; others not at all, especially those I as The trecall most

A judging in large hast from her oral autwers a repute in her family! Wealth Cubmen & sud Catual hersons well and others.

humber form a ratter afrocitions or fansy) Every their I bee Letters a afrocialeous

by good in hard but very unperfect

mean I see the word finited before rue. - I have often asked people whether they do the fame and nearly always bad a smiling half contemptions regation.

Numerals (no form)

A very high a complete. faits out in not following description hasticularly well a in not recalling faces a scenes in which the is not interested. Nemembers card but not by virtualising



(apr A) faits in vividuck of images called up by will and "descriptions of Severy are no good to me"

"Vez vivid unager of place I have seen Dometimes rise before "me quite independent, of any conscious offort. Here images which "come involuntarily are beyond all comparetus more vivid them Cleare "raised by a conscious offort. They are vivid month for me to draw "them if I could draw. Sometimes they are of places which I had no "conscious remembrance of a I have to think for four little time before "I can remember where they are but they always are real places "that I have been not imaginary produces. They come heddenly "and are aburst always quite out of consection with the consection of my thought at the time."

(e) vez low borver

"memory, although properting a remarkably quick clear a long "sixt for actual scenes.

mra. 2. Fleming

(a-6)

7. Fowke

(A)

There since childhood I have possepred the faculty of seeing different events which have hopkened to me in frictives, a kind of protorical memory I find very interesting. Usually small soonby.

Picture always brunded to the left by wall of room shrubs be, but there is always a black to the will when the figure are less difficult of shotlent the minageon disseptean. — one saw the chartesters of a story the war writing with startley vividently. [long x important lettern of a story the war writing with startley vividently. [long x important lettern)

m. Fowle

(a+A)

"I have not noticed whether I possely their burer as strongly now"

A, Sheater throughout as though polycling the faculty in a very high degree. (untested your as ret)

(a-b) na, (fails a little in definition o formiture test)

humerals "I see all up to 1000 in firmer & the rest in letters"

Ethel (Comeron) Sultin (faits in print a infarmiture)

(a)

mor Louisa Gatton fait i Municipation a deté completends also infertaisfeating

(A) Smphatic in all points (but as yet unlested by me)

numerals In turnking of any numbers, I see them mentally in brink; mostly in figures, but some, as 'Seventeen' and a'thousand' are it letters; as also all numbers above a thousand.

(b) (accurate and ably worded, one of the best I have)

The light is not strong but the vision is not obtained by any thing like plysical hazinely - Those objects obtained themselves which I actually touched in to which my attention were especially directed of the time in recalling a happage the vision is only of a few words, the portion of which on the page is marked and definite

Cannot call of inace of landscake without a strong mental chart and then onl is small part at a time. Cannot follow descriptions.

a popully A. Faits herbeles in farmeture.

(a) faits a little in familiere a pertous in movement.

I very eatily visualise both plane and solid frances. I found solid geometry, much easier than others with whom I thindied, in that account.

(a) faits in Furniture, persons in movement descriptures
bet ver good otherwise

numerals. "I van see several lines of 4 a 5 figures. I always wi malike algebraical formulae"

(A) Vez complete « well exprebed

Neculiary. Using a wifeen to me as clear as in actual whim, but Every Thing in a smaller Scale, like looking through the wrong End of a telesespe

GOLLEGE GALTON PAPERS CON

mrs Hankin

Rapid pictures but too brancest to definition

Numer of Former. When a child I counted by mean of imaginary cards from fice 1-10. My little box when under 5 in the Sarul way used an imaginary dorwinde. He is now 10. I sceletioned hum to bey for the first time suite he was 10 years old. "I he still counts by means of a demino"? He says he now sees an imaginary card, only the pipes have now no whyte beneath them but stand in the air :: He does not a sandice print trench known very many have florely to week.

course of hut Hendows. mils Hawthorn (a)6) (faits in illumination took otherwise grute good)

(b-c)

mis Henslow

6

sees all round the rown. "Objects are at the real do Hance or further off."

" The dark of perelser the imager a rusher them duller and "they look smaller & untheat much colorer"

numeral. former selfafounts.

Constance a Herschel

a,

Where any object is ornitted its place is supplied by a block of light or shade. Extent, larger than the real in lateral dimentions. I can look round soled fourer more easily horizontally than betarally vertically.

The mention of any geographical name calls up a brad's eye view of the globe. The detailed account of the geography of any place has the effect of turning a miscroscope when one shot of this imaginary globe.

V Mumber - Form compare schedule will letter. "like falings" finaleft to

mils Herschel

(a very remarkable care fully described of simultaneous vitin)

connected with the motor or touch sense! I simultaneous vitin)

"If a very familiar wom the imprepria is of all four tiber at once; it requires an object to choose a point of views exclute portion." [There is much may "word painted Scenery makes an imprepria nearly as destinat as "the recoveries of places I have been" [There is more] is sometiments ideal scenery—the geography of the place is insteparable from the betwee and seems to set it as a trame. - almost invariable a territing of the meant gave NS E as we as the case may be.

mrs Huggins

(A) fait a little is completetench a in Persons - bil vez cood.

I invariably customet the country mentally a fee it placed as I read. I believe this construction is mainly founded in woodcats, photos of drawings that I may have been

In which whether the plays well a ortunation that and as regards court card. The says therself "king out" with word recur when wanted (She afoles whether some conditions might not be generally freezest which as in the Middle ages would certainly favour the development of bis "proves"

Emma J. Keller

marion Kennedy

al

(a)

"I always know a recall things more by Ege them Par

She compaces the clearness of vitual" and the clearness with which former people recall past pain when coing to a destite

Elizabeth Laird

(a)

Person: (after how "ges" she adds) I can draw and know I could not draw my image, but I think that a person who could not draw would think that they could draw my image.

(b.c) Lady Frances Legge

Coloury is quite dittinct a clear.

Lady Georgiana Legge

(a+6)

6

host distinct in Illumination

Mellicent Lethbridge Perfect ui seenez trad in persons tumitene runneral,

"I spoke, but I never do now; - as a child, books were my chief companions"

6)

Illumination quet bricht. Est obbeweit may inferfection

(a-6) alver, good in any me thing, but get deceded hower a home marked peculiarities (estous apocular)

"I do not get on very fast with fact. The enquire, that slicity the cleanest answer is whether in the name of a friend or accumination being mentioned, their form is vicualized. Many persons seem to have an unvarying distinct which of their friends, others have an impellion rather of their mental characteristics, of the spirit rather than the form"

Letters & some numerals - color afronations

1.40 38

(a) n(a-b)

B. Loy (niece of Jane mills) not enought be afrared.

(a) as lead photy. A. not get fall enough the obered.

Sarah marks

(a) nearly A.

(A-a) fact in Farmilier « lags withing about person in motion

Number form

ai

Jane mills fails generally is outline

my representations vary with my health a spirits, a beautice I virualize color much more distinctly than form

humber form a color apocialines

mary O'Brien och 13'2

(com & Charlotte O Brien,

121

In trying theat a person from a Standing hor tim, there is a gap between the postures

(6-c) nc

helly 01 Brien al 15'2 com & Charlotte O Brie

humerch add small number & dots in defenti honting : 3, ::5

(a-, b-) under will control; (A) automatic. - Uncertain.

the vitualitie power is so distinct in tielf, to dependent in tous cough

[Valuable letter worth gusting in fall]

"An imagined picture has a Houseon more vivid hold in my memory than a thing I have actually been. It holds it shape colour purporting than a thing on a three legged shoot crying in a human attitute it face buried in its hands, a great black goutha. I could notice the best of the hair and ban her. I till I was dreaming with that side of me mind but I was awake with the other, thinking of your poper a taking note the presented in the other what it is nowed next appear a cue after the other presented itself. I was dreaming of jour poper a taking note of the history result in the other bresented itself. I see what with an would next appear a cue after the other presented itself. I see "thousands of purkered faces drive" to make the other presented itself. I see "thousands of purkered faces drive" to make the other presented itself. I see "thousands of purkered faces drive" to make the square black visitor. I see "thousands of purkered faces drive" to make the square black visitor. I see "thousands of purkered faces drive" to make the square black visitor. I see "thousands of purkered faces drive" to make the square black visitor. I see "the outer had an east with the square black visitor. I see "the outer had an east with the square black visitor."

(a-6) Faits in description.

(a-A) mos alfred (Cutherine, order

V Numeral forme 1 4 20

(a-6) fait à Permi à siserifliais

humerel. forme Jobly som act. Cura.

Other family

au han string hoven

1 vrinslithing

Cl. Taylor

(no for heinedes Catherine = Alfred order

(misalfred. Orley) small howen

Lefrie Wishinger

Otherwerd forms. Sliga to described in alice's letter then in one of her own colored week days attrange frames - also months in Calterine her above

(no details about the Taylor Family.)

hup Palgrace

(a-A)

I see mentally a wider range of a view than I could by

(b-c)

mrs Frederick Pollock faits in most, but

printed, and wed to learn words by heart in the same way"

A. [a first class haber all through, a might well be printed with as it stands.]

Peculianties he view is from the real horition, the mealit eye taking in simultaneous all sides but the back part, I immer, with image of self. appears the hading in the hard to de time being vaming soils object. In imaginary scenes brick orments are no himbranes. an wormen of a lunch can be hear simultaneously.

Number-form whippored origin [sent-typical]

Days of weak & months. [sent-good— assorting large a starting.]

Marqueet Poke

(b) fach in Completench & Colour , bri (voi) on follows

Print

Print

Permy Until lalely I ch never recall any lining last a personis hair
it color & arrangement being distinct but the features a blank. Now in

Some Cares and at certain truies features also are vitible.

Severy mechane fin all its named particulars) was distinct

Severy mechane fin all its named particulars) was distinct

and the first with accompany letters are very historiat

and the summer of the sum

Ellen Parler

(A) but rather uncertain. Sometimes almost halluconalises.

. Ble . 2 horizontal belts of shade, one at the 4th of the hickness, one at the hollown Somewhat as it the pictures were lighted like or williand soom

Chickore is lightest at the righthant side

Intende Shadow on left of picture a vertical hand Jestreme darting

Reculiar discomfort[Lesconted] in try is trecall fireint

When ready a littleming to conversalism, I form in my out mind an image of everything mentioned be it of bruitaring scenery herson, corment in what not at times without thinking of any thing finiticalist. I see a constant brocehein of protures of all kinds of things, and if I reals at all in the feeling or wholever in may be there images will change with the most it strepping rapidity and will be there is a provide them. become more vivid than life.

mrs Vaughan Price details wanted

(a-A)

Frances Pridham details wanted

(a)

GOLLEGE COLLEGE PAPERS ON PAPERS

Much Charlotte Romanes (areade command a appendiculty of the with scenery by movement at book of stace of a theatre) of wirous like what one seen in the Then threat in broad daylight are mostale book are in the head not with Gebra.

Ficture wither between volvalar recalling a se vition of what appear the belief " their remain when I often with them very rund at the startling determined, wird neft " their remain when I often with them very rund to the same of the imagination can call them of the come in position and in when I am expanded by faticule a excitement a then they appear in rapid Succession and in white variety

I have creat pleasure in preturing famous treates with fictition persons and when there herein are repeated several leaves they obbeen with more distinct who better illumination than any thing office view in the truncht that I am adding my chief Satisfaction in looking at a fine view in the truncht that I am adding to my stock of enjoyment of the next illness or theabless might.

A think kind is a imagery of retirion. watcher skalers to long a ollerward of these times black firmer dertay in all directions and attitudes—even when looking at the wall paper. The images then seemed the in the paper.

Mrs George (Stel) Nomanes On Gramples are wanted

A, Complete

(a) Kough in details the byenthern in that flyonly

(A) (fait however in Furniture test & Vez good wided)
magers of privated pages begt an right tide.
Can see all round

Municial form a Lost of: - no rumbers an been lingly but the me the the factor of the Smaller ment to the left atten larger Letter worth. The seem all written in a line of the one of Which I am turnking is trawn forward.

Margaret. J. Shaen

(a-6)

What little I know of secretion I ortuntie with perfect late.

numeral form

(ATa) Fach in printed byen rely's there on and ble memory a in Gescriptions.

Colour aportales with Sounds of words - Person fixation

R. Simmons

(A-a)

(6)

De senter an hallucination v says it is not the only one she has hed.

mor archibald Smith

steady good bet worshen up toa).

Scenery as described is generall localised in some known place.

Image (other than number form) beam in a definite place a if I in maginature rusure my sysballs the effect is the same as it would be in really, another may corner before my life.

Number foren is in Treasmond has little reference theolyest activally before Personalized numerals

2. m. Smith

(6)

Persons I can male my mentit image move of I have been the oricinal move in the Same way.

(a) appears A in fact but facts in Description test.

(a) She is that sopted.

Gertrade . E. Southall.

(A)

Can see clearly cubes, prisms x pramis, plane figures not so distinct

anna Stacey

(A)

Persons I can recall the features of about half the number of heroms I know, but not necessary those I am the most nearly connected with

number form

(a-b) Jeanette Stacey.

v humber-form

Eleann Staces

V humber - Form

(A)

(b) Extraordina nemory but not 4 imagers great anth metic powers not by imagers

(b-c) Ellen Sturge

Can do some mental arithmetic, the lines appear in the air.

(b-c) Lilly Sturge

mrs Tanner

(A)

Illumination and vivid as a rule and so when the imaginalise is strongly excited or when the visualising is involuntary.

nyself in the middle. I can see an entire sphere. I have the greatest of Heally in retaining images

follis out of window I have seen him hop before my leger as I hat at my driving faces decreases as my interest in the herma increases.

V humber form

agnes Temple (a-6)



Can see four Lider of a moon at one instant of time about certainly so if not, the mental eye travels more curcilly that it is possible to follow it consciously.

Images when retained grow him. no fatigue is counted but they vanish.

mits Temple.

(b-c)

can see y apparent one claner, the whole of a clobe of the four tides of a coose, but not more than 3 face of a sie never tries to form mental frictures from the description of stener in books

(a-6)

maria Tirrell

(com ? 4 mit cooper

Preside as if in twylight, it will in parte deep shadow. [her wight light in Print. I moved once is shortered]

Print. noves verbs a asjective appear perminent: It acceptions verbs, preparations he refer and one is shade them. The stag at Eve [his drank his fith. I can be little, half, but not book at once, the atternate courts being a shade.

Tries to gal statistics for our but Respected to find israteted at and monteste

Number-form

Colomafroe? with words - depends whether the contains certain belien as a, e, 1,0, n, L.

Her sister has colour afroe with names; these defiend in the initial better also the An interpresent imaginary companions. — He drawa soldier in horseback beginning with the hoof Quotes Mils Hardson's article in the Atlantic Monthly.

(a-6)

Jane A. Winsom Eval in Scenery edercriptions and (tenter breakfact letter)

Have the greatest deficulty in recalling faces. Might talk tome people (not all) for an hour or ten minutes after not know them.

(A-a)

Alice Woods herfed an egar's Penems - Form france

Even since chaldhood I have been able at ran enterwals when harticularly in the humour for it blook fixedly at a person and to take as it were a mental photographical him which I can careff call up reas after whenever I chove. - I council take these images I love, the

Number form

melter talue & sold of the

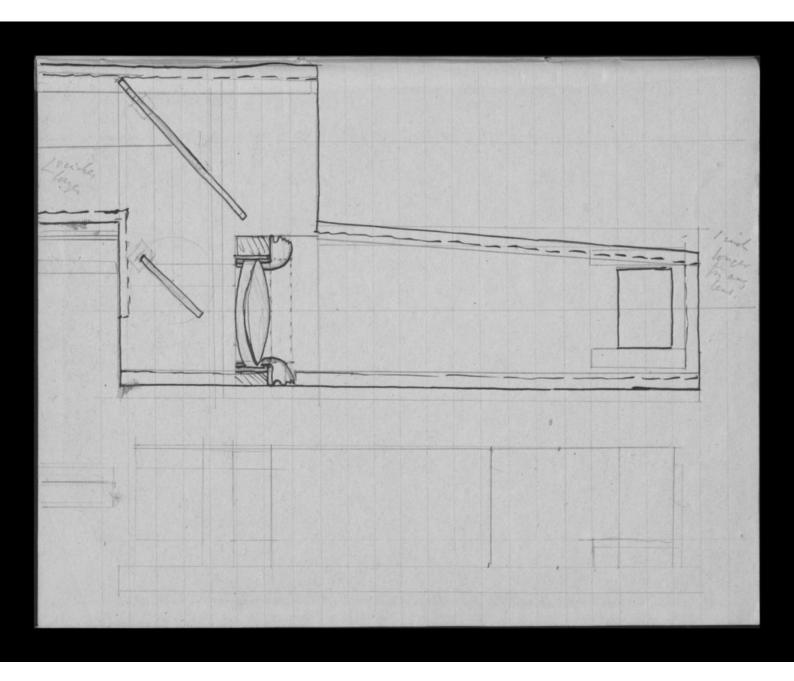
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forms } 2	4-27	according l	to opinio	an) no	unba	forms		
						below	variably unclufted	Tolat-
		15 14					2	103
A cases	. Bettan	y V. Bocken	an Bosto	ich Boyl	Brown	ne Elma Busk	Rwast (m. Farsce	H) I Forke
							the O'Buen. Post	
		hall. Auna	4.					
	1	,					vera falla	Halkelt
10		yenin Po						
Hirhen						in may caces		
						in may calls		
Mid								
Lovest	Cuartil	a lower believe	a- 4	and be	Ula	4-0		
		. between						
dulon	uatic	muzzo	ule C	runta a	- hu	2 Faurett 1	Forske Ch:	O'Brier
n near	420	Ch. None		D Sain	7	W. Tanner	N. Y.	, ,
	-	41-0	JH.	1. 1.	(24.2	+ 101	1	
		onto to a	more of	first	21.	Shows that	the leaking	t kallerces.
·	cortons	unconne	et will	hat of be	Muntas	calling of no	will al torrito	de un appay.
Number J. Isabella C	lemes (80	in allright i	Muli Bu	deworth)	any Cu	ingra Gelter Ver	M. Bolot (not) na C. Gallin (S. 9 wrifild. Jane	veen mo Head
(hely o'Bre	en) - Cathern	in osler ali	u osler b	Elean St	bole co	harlotte A - Scott	in Turrell . dire	et Neutleward

Mich Croper & & Sudich mirticles a huf Cooper Numeral 6 Kate andrews Nech dewind Norty Hotel c C. Corfe a | E. Eveen Number forms a coloner b-c mo Hawkin V 31 Neither 4 have runber forms of och a-6 mion 6 Pole a-6 Turrece the lowing . a-1 min temper A mo Nunn

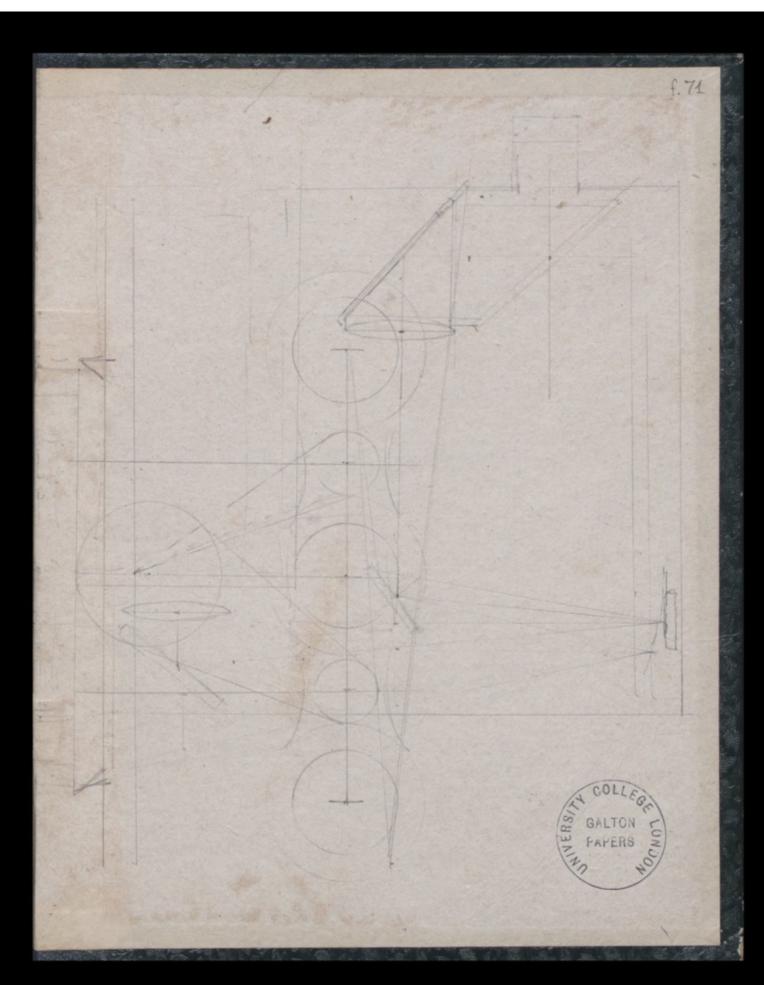
Rest hallucenation - Fawcett F. Ferstee Ch. O'Brien Ch Normano has Tanner Mr. Fawrett - Imager without and concerns connection with offices of the mell offer leave as an encompany more word then consistent have been lend by the Perstee France from him to be subjected to a problem them there had been from the from I have been to be subjected to a state of the following the form of the for

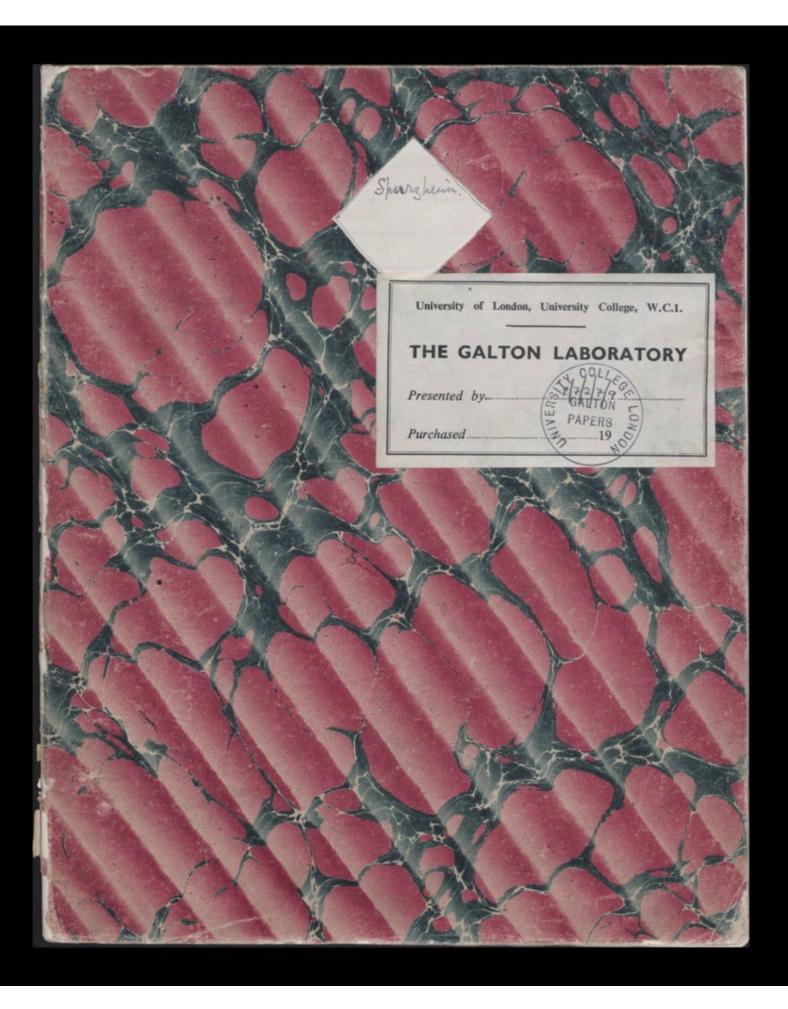
- Mens Haweis Mening seems like in you also always seems I'm a going tribber; a vision is a seem which ofmer time - She is very incometen in all book of ways. Flight of was x speaks. Taken operated with words

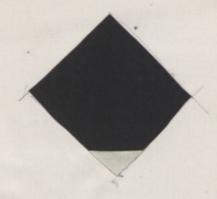
hip Hudgen



n+m = aren of lend (thelened redainates) Pquantit of light for unit of even of lease that falls prosected rather front in therete a - granting of light that reache. We alte it retransmition through lend or interpreted reflection money of his raide care = Pm. The ray one of both the fewfield can allow it movement, I wood for in a the rest for in a gries of brightest image it there will be the law of the series of the policy in a their is that it law more must be allowed F JOA







or the mentionation of Jurismal faculties.



Spurgheim Phyriognomical Syttem 1815 (Baldwinell) he writes in English: a friend has removed Germanium & Pallicismu,

vo. J. Pale first began these virturels _ S. has been for many years aboverated with him a have not a little contributed the lew.

J. Pah thesh of "one" incurries her large work is Analimii a Physist: du Externe Nerveax L. - par Galla Sportshein Paris.

-ve a - efs termination. adhervenels - Whe attachment

87. Swen in manker the perfection of lefternal instruments. It man we his arts to the perfection of lefternal instruments. It means we his arts to the hand why ho not idents invest. (He has been theating of birds ho. "what diversity of structure in the nexts of tords which to the are similar! be

produce confusing words. No astrox has Ever indres of the Calencer. This describes according to the auntially of their tense of feeling

83. Then the aucient doctrine of anaxagoras, that the turns of man with Cause of her anderstand; falls the growns

252. Some faculties are more Energelic in men, others a tormen a ditter aid different ages a en Each withvibral. Every child mann first its own manner of thinking ofeeling

255 - Many hegening have a melanchedy look who gen had at all noting a consider to with faculties). When commencement of Poll's enquired was observed that I have school fellows who had good memories had principant by 263. Such a Spurgheim Bayuired very widely - Educational Collaborate had been all sorts of places - 265 He made a collection feast

306- May withiness of the problems, their bull the want of sent tity of int Herene than others - criminals

315 The probeant to kite & Ristrez is inale - at history confirms the aperline

320 Sauria parta 1 Seneva was overcome continually & the bushass? LAteal - may this cure are cines

324. Sentiment of property in animals

3 hd. Gall adouts that sung certain in beterate criminals do not feel any reportance in good Containe - when the inclinations are Smigelie all the actions are a harmony with them - they are his principal channels be race feels as natural reportance. a good like yout from this view verse

349. Cardinal of Polymac (Anti-Increce tom 1, \$164) says with the 2 a criminal who does not consider him Lelf wiched, when ?- Follow praise original to Scattold their confedent har clear 7 - making play of most ortragion achies - bush ost inte laughlie

442. Instrinction actions subjected to leasure temperation food , lows of organistration: animals at different periods sting build, gathes pearing live totaland in in tocali, migrate, be (hybernetic theely, find. tempe: of body.

445 Curterinin & their doctrine of the tracks which they admit is

453 ... It is dan't observed that revolution's produce great men
The same circumstances are often presented to many millionis
and berhaps one single individual alone makes use of them
... revolutions offer the Aphorlaneties.

455. Low of societ - the Social animals - the social faculty in unate 457. Leternal wants only excite the activety of the internal foculties, but so not produce them.

Who constrang faminals a men. Why toes not the heart too when the when the formal he for the figure. ?. . I streaten much he conformable to relieu. Young children help most of their times with their mothers a nurses a consequently in the women, yet boys a cirls there from their Carlied infancy their detination channels a their deflevence believes the best continues to life

461. Einiares anny nels vanionals. (anniz little later) 497. All faculties are closen - Who to example has called hunself thite I does it defend in the will of any one to be loon in this is in that county? I from there is those parents." unde, this is that bestern of government is of religion. I who has determined he Lex! Who Can say I em the Cherlis want became it has been my choice? 527 Very Lew characters & talents are frimple 528. He world is different to sony species of animals & Even & Every wit to tual of the Same Eficies 530 . Certain Stomaches do not biget some things . 532. What a Afference between the god of different nations! 533. Munic is different in long nation - Even of Every composer It is the Same with pointing 534. I soen admit it as a principle, that according the Shiris I am language we may judy of the faculties to hatin the trend tratatute does not admit analogies as proofs. White the German eve ford of them - [Mudanahui totum of Fricherman]
539. Visi Circumstance explain the different follows of Virtues morality... Hence plantors then as well as all others herkuns thich differents - her plan seems them the best because his. Congcionnel tetts him So, but I think his lovery in Contibers huntely as the measure of the absolute nation of man.

540. Ead is always valatt times authorfus morphised 543. hun wounds a cultivate terrener in the Kan was that to benues builds a thoughting ale trys 545 - I will never choon to my intimate Treat person a Whom the inferior organ are very laze a It offerin vez Small Indulgence & Mies - not triend hip can be furning intentit. 546. Sympatty & anti-palty. 529. The coules member of the faculties are anti- cocint from perton do not the the front - =. 552. Education. alter innationely lygiena it rustin futual - the law of nutriture must be regarded the part that concern exercise is still on defection If it conceivable that the feeling are not I be learned as the intellectual faculties and, I butting thear 536. Leamble love of appertation cannot be annothertales it much be dructed 578. at then perso Is ... women deseron more

indulgence in account of their isritubility . - Derios

1 irritability are common tooth Lever. - 573 Compleying

changes ... torretimes hands & feel seem benumber .

some they but wichedness of the dufering has for the forester of the note of the winds of the dufering has feel a person from bust of the forester of the note of the tothe of the dufering has find of the forestern from full of the forestern from the forestern

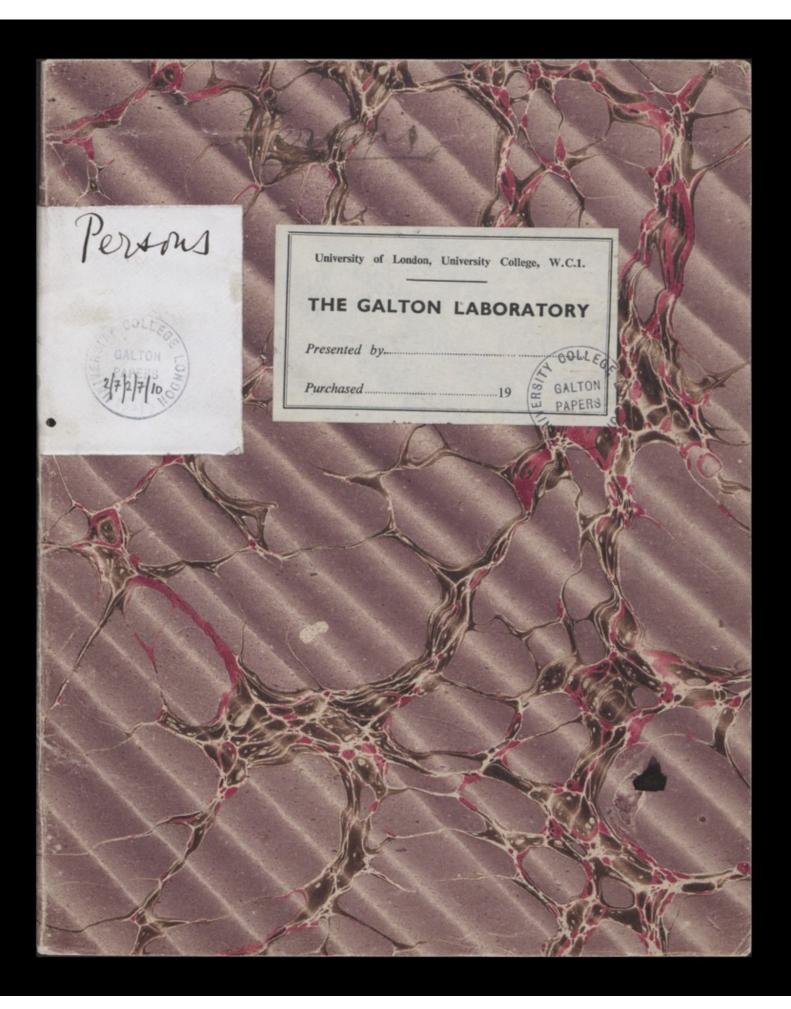
Height Half f. 5r 8- Hirences Hereto range Abcilsa notification of B A+B Octile

Gall sur l'origine des qualités morales

- 2. Carielie of character amors his schoolfellows history of the freulty of memory a prominent liges
- 16. Her father lived in Baden
- When Describer the varieties we a county famoly circle a specimen.
- 55 To understand man we much begin & Hudying the lover animals
- 165. Altertin shew a montey a female is a fruit & he becomes allertice (this is a good a brief chapter tothabour Effect)
- 209 Heredity in intellect a leadurier
 - [I don't twick Gall an accurate observer at all. then he thesh 20) persten-tipleis who are crackly about in fectures beg always alike in likely with on the first head in good men, being salways) large 201, ke]
- 215. Mary cases given of blows in the head looking genties. includes Matrillin (the father), Gettebry (whin autobiography),
- 222 Curious history of persecution of photosophen writing against the convent
- 275 False aillusty ideas in the freedom of the will (well fut good protection)
- 280. In Aleaces free will in the freedom to change and willestes into a Volistians but alleall h 286- The thew that this freedom it itself betermined
- 349. On the repentance of conscience of criminals fourth as strong and full as Prosper bespires]

TV PJ-98. a striking account of the natural cruelty of many men but compare with V. 260 which fent, another view with malter. People co befeculious strateties because they need the exercise of their cap faculty of hity.





Sometimes I can recall flatures vividly, but sometimes fail with the same person. I can at their moment recall several people with whose aspect and specialities of runner movement I can follow as they sit, rise, walk or turn locand.

I can recall the features of any one I know well and see them in any attitude in reporte is motion When I want contract the art.

Cannot recall features except after immediate observation but recognite faces once seen with extreme facility

Mrs A. M. Benche

Some days I can recall features perfectly; on other days
the same person is indistinct. When I have been
the original of the mental image in any portion, I
can recall it; not otherwise



M

(P'S' V)

M

PISY!

MI

I. O. Bevan It require an Effort, more a left strag to Enable me to recall faces. I could picture them in motion by a demonstrable Effort

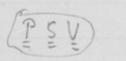
Fran von Boeckmann I can recall the features of dear herrows, see thou short before me, moving or sitting, a could sketch them

F. W. Burton
(Who says 'yes' to my quedeins, add) amateurs often
draw very correctly from recollection but fail when
they draw from the object itself.

New-Arthur Bulter
I can be ideal better than known focus ardmarily
[In his note he bay, I compleradrice these images
in the day, even if I close my eyes and shub myself
in an almost sound proof room

Mr Chefinelt
I can recall the features, gestures & dreft, but could not get a sufficiently distinct image t copy, supporting I could draw.

MI



 \overline{M}





Mil Lina Churchill
I can recall expression distinctly, but not always features.

Mif. I. Clemes
The features are industrict, but the image can [be made to] change position at will

be features often come with great distinctuels, but if I wish to call als a face it often only comes in a vaque indistinct way and there seems an effort of memory & gv. If I have been a herson I know well in a particular chair I can withalise him there; otherwise not. Even then and distinctly enough to try I sketch.

Edward Collins

['yei' tall my questions]. It frequently hapkens when
I meet a man whom I have seen but once before, that I
worry myself for a considerable time with the question
'where have I seen him?' at last the picture bursts whom
me and I see him and his surroundings as whom
the first occasion.

M

JP's'V' M'

(PSV)

Reneral effects very clair, details sometimes more thadowy. I can make the image change portion

hup C Corfe I have a tolerably clear recollection of persons I know well, but not of every feature; I restlet the gestures and movements clearly.

Charles Darwin I remember the faces of hersons formerly well-known, vivily, and can make them do anything I like.

George Garwini

Yer [t my questionis] but if I know them

too well it is more difficult. Then the refresen
tation comes with extreme vividness to flishes

but refuses to stay. I rather have general

unpressions of such beoble (e.gr. father, mother,

etc.) & can picture them in various attitudes.

I can make my mother sit in a bench which

M

<u>=</u>

PSV M

PSV M

She sit in at rare intervals, but can't then hee the details. But any one who has never tat there I can't manifulate So. (E.gr I can't make you sit in a beach in our "Sand Walk") I do not think I can prictice people moony tun one attitude tanother continuously. the new position. I cannot recall people as they were when young, an without beards to I think I could draw very fairly well [from memory] if I were a better artest. The enclosed ! did in 2 minutes representing my father as he sits before the fire after dinner. It is drawn from the position in which I often see him. the Rawing is correct in the position of the lamp on the lable and the shape of both chair. Ilspecially had I think of the top of his head came over the top of his chair; I am fare it does, a corrected my first allempt. I could do this immentely better it I were to thend 2 n 3 hours over it and try stry barrows Exects.

Horace Darwin Indistrict. Cannot make them move.

m

Lo. L. Distant
I cannot recall with great distinctuely the features of hertour I know intimately. My children seem same That an exception I cound make us went image change portion at will believe by practice I could do to.

Sir Joseph Fagner Yer especially some. One a two for more than others.

Musi depends entirely in the persons & whellows I am sufficient, interested in know them well that the Same unth Scenery. I am generally interested and therefore generally recall both lasty and clearly

Mil F. Foroke - No the fourer movetheir limbs only a come towness me (See her long & interester letter)

Mif M. Foroke Can recall persons in any position wiwh: I have Seen they mo

77's V

77/5/V

(PSV)

MI

PSV

MI

Louisa Callin
I cannot call who the features at all but
Louly I the general form, attitude, and shape
I hands

Alice Gardner
I seem to recognise the mental images of persons
chiefly by the queeal expression of the Countenance.
I cannot make them move naturally.

Une mages are more distinct in Hillnesse than in motion and see to distinct enough in delait to make a good whenest

Miss Susanna Green
I can see the Figure in any position but I
do not see it actually in motion, and I do not see it
distinctly enough and detail to broke a good to leave.

R. Haselee Sometimies it requires a contriderable effort on my hast to recall the Seatures of persons, even of hersons whom I know will as other times they bresent Hemselves very ristinctly a that especially when mo

?

715 T

P's V

51

they flay a part in any scene that I call tomind. As a rule, hersons having no connection with present train of thought are difficult to lead to mind. I can however satify recall features of very intimate lovinds, but could not describe the details of their features bey accurated. By remarkable foce I can recall without difficulty

Down water the mental image of a person I know well, change firstin

I can recall bits of foces with great minuteness, lepture a color of skin, marks of injuries, colors of hair, bit no mage stays. I cannot make the images change their positions and I could not draw them from what I her even of I could draw, though I can remember them bit by bit, exactly, as it seems ! me,

I do not see person very clearly. The vision of them is a kind of them something of all that I know a think about them, as well as their querel air

M

33

Forald Mc allister Facer even of my own family become industried after a few months absence.

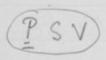
I can recall the image of persons long since dead in various positions, distinctly

Sarah Marles
I can think of each feature but not the whole
face, if I try to. I often to one second. Seepa
person quite dithindly whom I have been seeing in
my mind uncontained before.

My power of recollecting the features of herrous many depends when whether the features are province's a not. On a rule, I recolled the features of those I know well, but could not draw them in any case

Much Mede G Merrefeeld

Yer, I see persons districtly enough & draw them. I always reall about persons by vivid mental protures.



M131



vision



fare mills not with precision. The colorer a the lephen are the most distinct

I horman moore, MO.

I cannot to my mind picture the face, but I can
remember exactly the portion. I have a long
recogniting memory for faces improved & almost
daily attempt to remember patients so that out of
several hundreds only a very few are forgotten, but
lover I people I have known well most intimately I
find I cannot reproduce the lineament, to my self
when I with todo so, soen if I [can] describe them
berbally with accuracy

Prof. Max Miller Out a vague general tog type. Now & then I have been able to have a vitin of a face, but very rarely and querally under tractement

Tealures of persons seen dant can be recalled with ease.



Infellier OHER

I cound recall the features of persons with clearness. I can clearly see some of the features but as a whole they are dring I can at will cause the related view t change into any portion I choose, but it is not very clear, not quite clear snough t draw

mrs Frederich Pollock I can only recall portions actually observed

Musical Pope Mutal lately I could never recall any thing but a person's hair; its colour & arrangenceal being distinct [bit] the features a black. Now in Some cases and at certain times the features also are visible

Six Nawron Nawron Yes, but not of ordinary acquaintainces

Prof. Crown Nobertson I was not trained t draw otherwise I think I might have sketched from the images as I represent Them. M

MI

P'S V

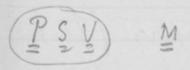
PSY

John L. Nogel I can recall diffictly time faces that I Kunvewell, but as to others which I might leavoually be expected & know I find it difficult to to, and I sometimes make ridiculous mistakes of identity. I can at will cause the ruental image to change frontin as described long to Let, sland or two stordy round], but can rarely retain the mage of a given person long or distractly enough draw the living frame tolerably when it is placed before me. I believe however that I could to Some Extent acquire the porser in question by Cultivation. Had I been altogettes unacquamled with the practical difficulties of drawing as an art, I wight perhaps have autiveved their interrogaling lutter affirmation.

Muf Romanes

I can lecall faces with great distinctuels & can make the sinage move any way but corly not retain it nearly long enough to draw it. my mind would wanter away to a thousand other things! I know great pleasure in proturing fancy scenes with fictitions persons and when there stenes are referred several times they appear with more distinctuely and better illumination than any thing elast the same applies to fremer from well written movels.

[See also her letter about in its out]



PSV

M

huf Ryland I can recult with distinction the features of persons Either Still is in motion.

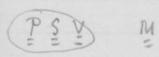
Nev- 9. S- Clair

Can recall features facol well and find no difficulty in making them change portion. I do not draw, sise I could return the image [long enough to do to] but I thould feel uncertain about delast, of feature and dref

bothers I Saunders

Yes, t all questions, but there are one in two
hersons with whom I am very familiar (my non
sitter, is one of them) whose features I cannot carry
off, try how I will for Several years. But most
faces if once clearly seen are diffinely brownlisted,
even though Strangers.

Richard Shute Even the foces of persons I know best, I cannot reproduce in imaquiatein



PP

M

P's V

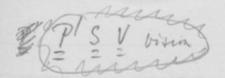
(! Mr.) R. Simmons
Yer . Sometimes I see every delail, at others
I cannot recall the most familiar features
(Has had more than one vision see her letter)

any Seigh Smith I can remember three faces, one of them more distinctly than the others

Some heale with great clearness; others known equally well, not at all. I can make my mealed image move if I have seen the original move in the Same way.

Heaver Staces,
I recall easily a personi figure, though generall only one or two marked features, at a time. I can latily make my mental image of a person stand or tit and could imagine myself able to thetet a personi trust

George Stacey
Con remember very well if only seen a few times, well
known facer can recall in general effect but never features



PISV M'



PISY M

f

Ellen Steinge I can recollect fairly and see them, but in beginning t draw them they become fainter. I do not see outline, but light defined by background.

Illy Sturge I cannot recall districtly the features of any me I know well.

Marin Turrell I cannot recall the features of even my most intimate friend.

L. Ward

Can mage beable I know, at vest but not moving, except
they have some trick of manner a gast which has imprefsed
we. The attempt to project the image on poper is a
hopelefs faiture, herhops because I cannot draw forcer.

Lane A Winson Have the greatest difficulty in recalling faces. Might talk to some hersons (not all I to an hour, and ten minutes after not know them.

PIS V stray nachbother

PIS'V

mil

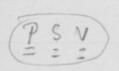
Null Allice Woods

lecall features with real districtuely can make my mental image of them take any practice I like. Ever since childhood I have been able at lare intervals, when particularly in the human to it to look fixely at a person and take as it were a mental photography of licen while I can coll all at will years after and whenever I choose. Some of these image, are so clear that if I could draw face, I could draw them will lake. Other are more introllined, the peculiar their of feature not being these but the experience being involving inhelicly inhelped. I cound take, these images of come are long after, repeated trial, but in one or two occasions they have been unformed in my mind involvation.

I can easily recall any expression is position of any herion I know well and see them to trivially as t draw them.

John Wall

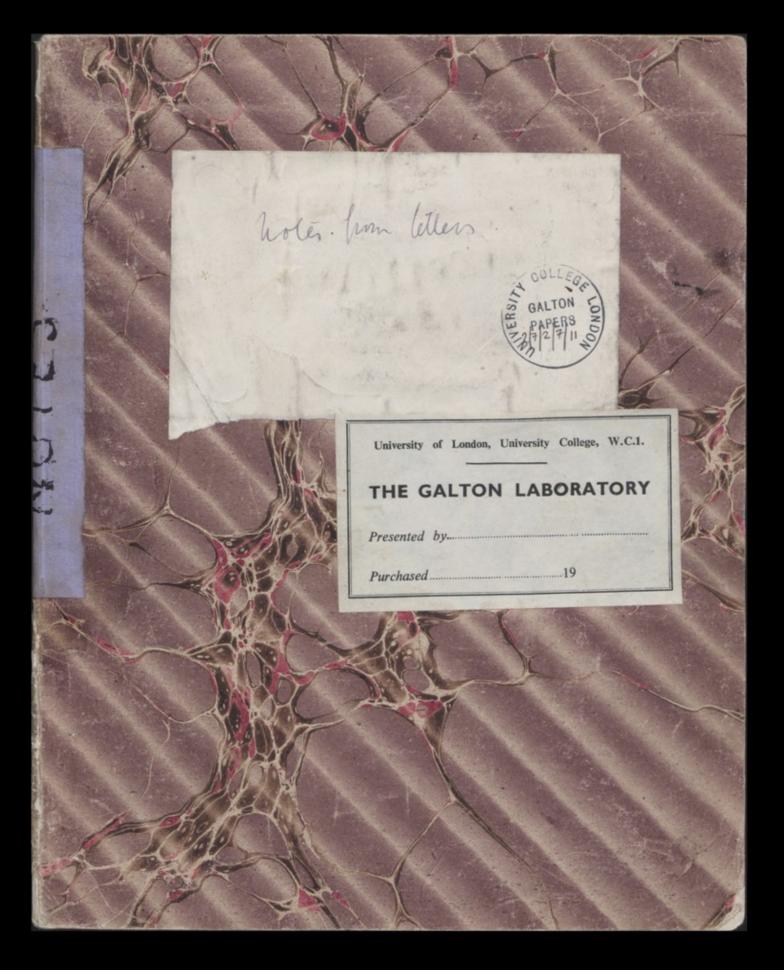
Jam and always have been singularly deficient in
the memory of faces except those trequesty seen and well known. Of
these I often retain bery long a vivid interching but lover as to
these a change of delails, arrangement of hair is the like, makes me
uncertain as to identity.



PSY

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From Schediles

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o'coun the firmes are colored

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sen! mother was you of colour heefe fame Wills Colomo word - thinks power my be strongthen ? ninhumich, has a friend withen Every town late, at form of waves Ostler Culherm C felie day freek year O'Commo 2 Edition alphabel too. Other tacken Colour aprociona - Small tire of object vitualied Plans. And his daughling it seize - soviente of dig & rendered the apper boxes. Petrie Flader - his fliday rule, Schurles Morthe of Kengrer Duesan leona differeted huset Schurles Morthe of the goars & - thinks in in ages Searle Belief & Lord bragger - the latter ran upwards as learn Justiles much line forme half wither trestones wood mit - - berimbred rumerale. I toale. Stewart very full plan rever set over first infratures

From Schedules

waller beautiful little drawing of at.

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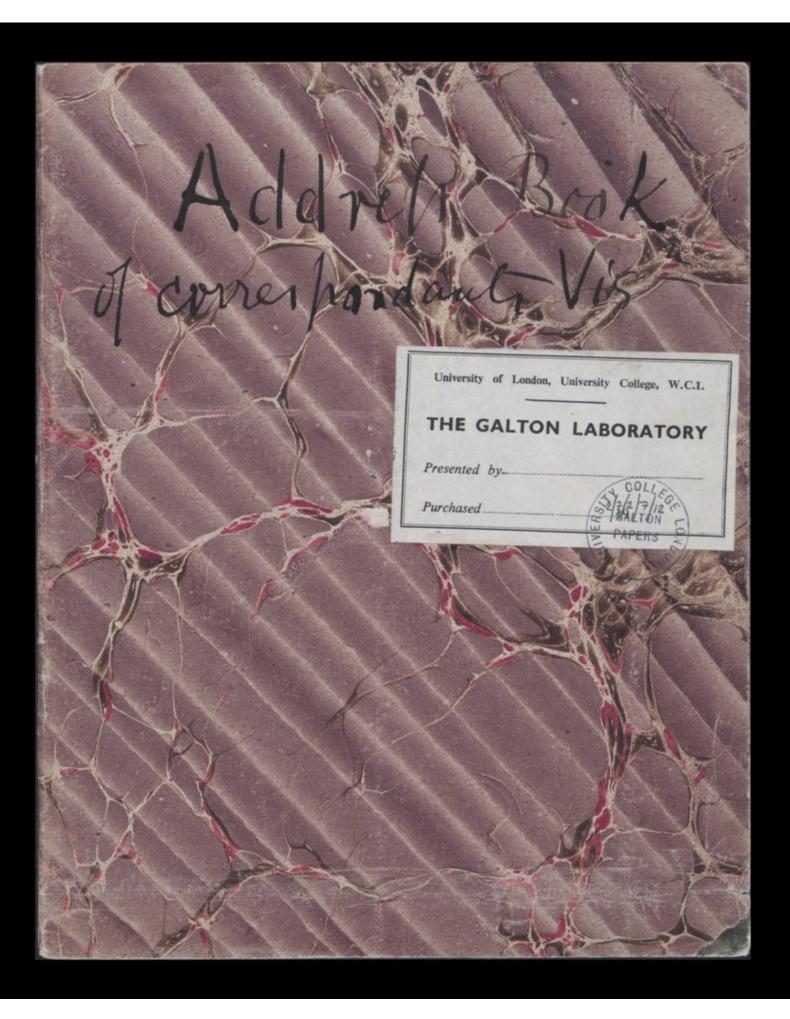
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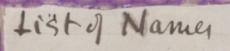
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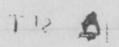
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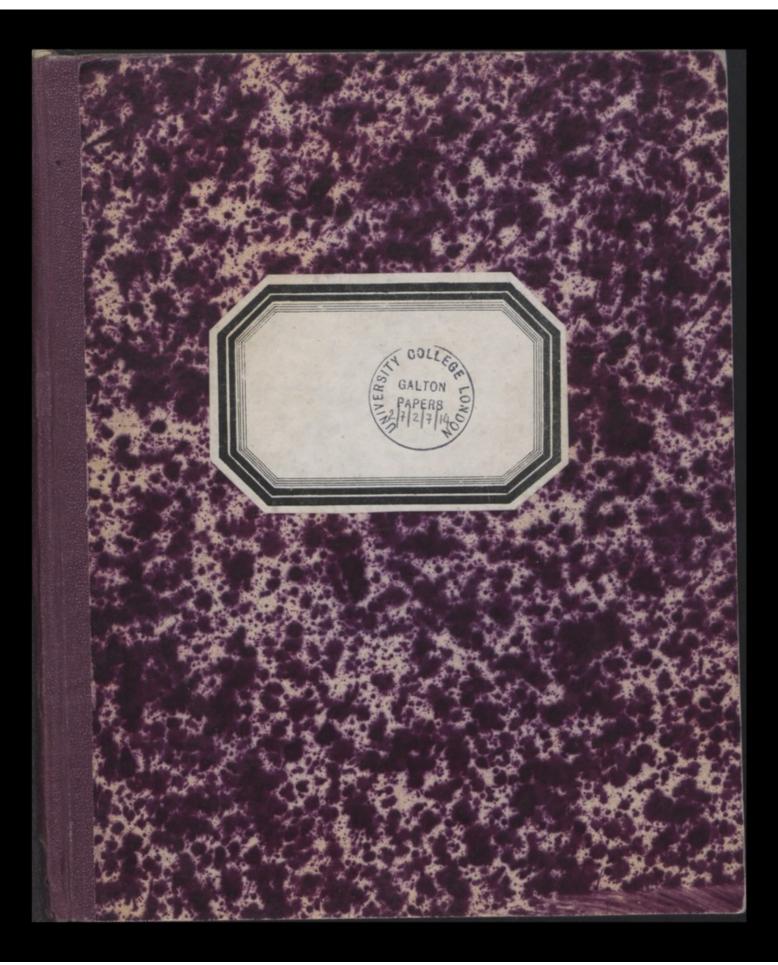
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a search for a theory is like that of consecution exploration loward a feck - Sign hosts Place of our sign host, - towards It region of germ theories What is meant & a germ Mutual influences much be ascribed to germen grounds for believing in armer is the distinct lowers - metica of qualities - allotropismo Qualities may the coordinate her ristiach, if coordinate be weak a soen obstitute, to long as not absolute 4 fede Hercalem about in generally true for the . . thousand organo ucay. ly anatomists an their is packed with ovam tige of a pinis head Miser of fel title notten of there - Since of port office Stirp, meaning of Local horiting daterty and developed - smite about elections firms mult be loosely mixed logether because It brothers & section sunctiones beguntike. 2, twee by rend alite. - gran care. (3) horni vey much nalitie - Eine Cuce. assatrofiton

Influence of me germ in austres aided by viewy whil itself is due to many small causes; hence Limitation of the ancestors; the many must be terphrefit Statistical treatment advantagions, Half polerthe inheretunce suppressed; thingele away the former Hence sexer an muchan . Extinction of plants & that only breed by grafting - Relieve of Summery, limitation of number of geries of lack themed; hence freeligities and transmitted in few graduling Stirilit of gerun Measons, from non d'exteritance of acquaixed preutiantes, Donsequences, person and a true representation of his traus in Min power. deterioration of race allerente gout de Relation of Child to parent.

The object of this memoir is conveniently Mustrated by The sevemblence that the heard for the true theory Atteresty, may have to a succession of expession, to search of a way accop, a very difficult county, t same mountain peak, whence a panoramic bien of the whole district will be obtained, torver to illustrate by diet in the namoir. Each expedition leaves tomether; non of the postribilities of the way than heat itief has been conquered, it has become servicence to put marke in the way title to mare succeeding travelless aquind frenings, total have bear bound thead two repull and to point out others, by one hwbably be found the most direct hath will the order obtained the substanting country my country being the substanting country my plant to feat aft of there tigh frotty beginning at the first place lookers two principal routes diverge and I that then thew how rapidly we ascend to taking the right one, and how a large fent of the adjacent district content into district the we the and but the won had avoquery not ween the explored the way much furthery; certainly the not known

the way to the beak itself, whence every feature of the land scale englit to appear as distinct as in a Tual. The first divergence of two router is at the tours 200 which leads to all populle by potheres based on the theory of germs, and the try hort bettaced here, it then to nail up, is to Mendelan that it is to that certain the true was to the healer total almost certain the town that the true the the true the theory may be, much at attendent the setarts of the theory may be, much at attendent the based on the theory of the based of By germes are now meant small objects of the nature of seeds, which have the ordinary properties of matter; so that lack germ occupies a conficiente hostion of space to the exclusion of other germs.

and that its influence upon its neighbourts much be in some degree dependant on the affirmer which happens to them them. Therefore the affirmate, it from them. Therefore the affirmate, that all animals of plants were derived from gerson, curreys by implication, a great deal along as regard, the influences of one germ upon another,

that the man trick heir Expected in shewn in the leadency to coordinate development, of which I want to be to show the fact is shown in I wall very shortly have to speak.

The primary argument to show that some separate organ having separate origin, in that the overwholey williams the enormous number of case, in which some britishing heculiarity has been herestrained, to all appearance independently ondependently of any other picularity. Heat the absolute independent of any cannot in any instance be proved; neither are them records expression virtually to prove organs exhaustive but the distance, are so common, so varied, and in a feet in marked that independent in this first prejudice can with that a afsent to the general proposition. This quite another thing to say that

The evidence that goes organ hay a scharate origin is both direct and secondary; the direct evidence beg the facts of separate inheritance , the securber evidence be is the reason explanation total this idea of a separate benest, I The the separate Inheritance in fortant fortherent all there cares which are as numerous those extremely numerous cares is where the feature, is other Characteristics of parents are variously distributed among the children, there if the father has too and tis still rure marked in those rarer cakes in which one phandolisiticaline to all appearance, No doubt qualities have a tendency to the in growthe but that lending to the catery and a thought moderated string in the local the some carein and thought however obstinate in there, it suverthelps is formed on lan occation, to be over bound by carnal tir cumstance, The various distribution of characteristic may be seen the member of years exercise of all family, the extreme with most, pert probably of all family, an extreme but by up means at case, is where the one child has the father disporter & the mother features and

another child has exactly the converse. It is clearly unfofully allevidence even of a single cale I their kind to have that the particular thy immen frame and mental character, which wither the father or the mother proported the stricts coodinate; in other words they much have been instrincially set essentially distinct though total a Burn is left tandencies, to a reconstister, they were the leve occasion afrociated and might be Cattle in a hereby selder Separate, nevertheless and hald touther by their gregarious lindencies, and artifly observer of these to whomesthey appeared file of time usually grace together and to wind together that I such they care distant of the lie come from the first went that I such that the sure and they were actually the come and they were actually the together; however, if he watched he wonth absence the thered together; however, if he watched he wonth absence the her is the had the those it would had the subdivided of the subdivided the subdivided that the subdivided the subdivided the subdivided to the subdivided that the subdivided th in another direction; also he would occasionally notice straggles from different sides of the main map; from all their he would surely conclude that they could not be tingle object, not distinct,

The object of their memories to to there that a large part of Me to transmis admits of being sente accepted a part from the remainder, to which may forest objections have been arged to that the factors in protection in infliction in inflictable in the total that may of the fact, it have difficulties facts that that never explanations of others, inflicted facts may be in the facts of the facts. It appears to the facts of the facts

strictly tethered time mother, but they were the things temporary afsteration over to their quegarine, that they were executively distinct appoint with a though tendency to be found in aferciation. We have no menus of afserting that are objects whatever, are introvertal georgoborates; , except on such evidence as their and it blans with the race; the interpendent arguments when which is being, or account of the quartiindependent tysolence of cell the separati cell, one is already believed. My Jarovin du agued thei haid to weighting that I need not the origin of plants and a wind sin a more or left himogracing material which is shaped by rune "vital force" into the protean forms with tolered it becomes bearlohed. There Try stical biens of this kind have charactericked the infance of most score, and have invariably been ricerated & further research. M. Justice grove his a ve remarkable popular de their subject in his Correlation of forces".

the organisation of plants & animal to be primarily due to mullitude of survey which severally breed true to their kind, which consolide process the house the power of developing themselves interests to the order of development to the the process by the order of development to commit in the development protest and so are consecutively. Last, be their bold Time foods of the house for the house of the circulation of the free circulation of the free total would move the house the house of the hous

The object of their recension is to show that the large hard hard of No. Darroins elaborate theory of properties about, a total heir free from the objects in that have been successful, was against the generality that the former for a deciple of being the rest admit of being the considered apart from the test and to disterly value in explaining the more thinking facts of hereoty. It is a great step in the I should wanter to prefer when their basis a few new explanations of orders facts, willied their basis a few new explanations of orders facts, willied when their basis a few new explanations of orders facts, willied when their basis a few new explanations of orders facts, willied when their basis as few here antolored may be founded when the same basis

See lastfore

theory of Panguetis, supposes a multitude of service to the original the circulate treet, the way therefore the body at any minutes t attack themselves when they have affinited, and then the develope int cells. I her best good them to intimate, connected with the rest of the theory, that if the be discredited herafter be made,) the value of the whole diffappeners. The object of their memoir is on the contrary to steen value, that the theory is of residue of the theory is of sterling miles that the questions of the localitation of the germent assertion of the germent assertion of the greater assertion of the greater assertion of the germent assertion of the germent assertion to the first the frekent of being the second of the first the frekent of being the second of the first the frekent of being the second of the first the frekent of being the second of the first the frekent of being the second of the first the frekent of being the second of the first the frekent of being the second of the first the frekent of being the second of the first the frekent of being the second of the first the frekent of being the second of the first the frekent of being the second of the first the first the frekent of being the second of the first Thus, the part that M. Tarwing Payenerin has fulfilled to some distant peak which has fort the attempt to but has nevertheless explored a large part of the county on the way thether. Marks to feet, to thew for a certain distance what will nove all probability,

attent bout our spening whence with voler of the f. 12 19 frence by the bigge correct write; the came a facilly turns, which future explorer must avoid. The first & ment there sign The most valuable of there soin firsts is the leads in the Davedon of the term divergence of the way that interest for the Davedon the proposition for the leads to the proposition for the leads to the proposition of the leads to the proposition of the leads to the leads t and dinets us to follow it.

Existence of germes

have first to shew that every organ at least, has a departe origin. The Direct cordence of their, is given seen in the facts of separate inheritance, we where the characteristics of the two parents are divided believed the children; still more, when they are variously distributed among the children, and most of all, where one child interity from some me ancester fast one peculiarity, and me more, ball of persone. Evidence of this kind is precisely that which enables us tafferin the distinctuel of any object, wholever querally . Here a townsman for the first time in his life was cattle grazing closely to getter in a dittact hell have and wonders what kicks them touther, whether the are ties to each other in not; after a white, he notices that the head divides in one direction, then again it he to sees it re-unite, then & divide in another N'redia to in also he occationally observer a few Hingeless; there he concludes that the cattle cannot be tied together but are effectedly distinct though cantil to affociate them anythered to herotomen the their own gregarious intlinet. I the offecter to the herotomen The distinction is clear, between an absolute union and

The statue you by man know that it is at Hercale, "in any of their affection in the pact; the inference is my fill bable, undoubted, only probable. I large and knownful foot-undoubted a seconfrience of large stature and proverful bruth, but it does not invariably to little, with it is with an other body a mental characteristic. Many of as have looked with current at the boots and shoes, ranged in the Carly morning before the bedroom, doon of the frest Continental listed & speculated on the what their orineer were like and have differenced afterward that we had blustered often made about Hunden. Nay butter, the coor N' nation of the parts of the body is to far free street, that a teneralise of one fort willying no certain forrange of wheat the other test would be dile. The squetz is never exact, in some occurrent the size of the feet differ considerably in rare occasion me foot may be to devinded as harty to be called a fost at all. and it much be remembered that we can select cases fall this in which the peculiant cannot provible be ascribed to accident is direar , because we tan confine morely those in which

a strict union. The former as the facil strong, is exceeding obstanate, but in all cases it admits of being theoarted in overborne, but it father cannot be severed without injury. The idea of separatinely, in the origin of the obstanted organs of the bod, does in no way excludes that if a leading to coordination, it only exclude, that if absolute coordination.

Objectors to germ theories,

It seems no doubt strange that the various organs of the foring frame could be derived from separate originis, see, how beautiful, they are considered into a symulatical whole whombe therefore to fix our attention when tome defends the characteristic and contriber the characteristic and contriber the characteristic and contriber the characteristic and contriber the characteristic serve far they was found that, A consortinitie serve our turn, supplied we take to a lext the well known himse "I fush there to the fact the well known himse "I fush the statue, it is known to the thereofe."

Heater frost has taken a poet; transmitted to the thereofe. The status of the inference being took wastering to the status. A large and prevented foot.

16a x bb + Tapart.



it had been hereditarily derived. The separate transmission of a single peculiarity is proof that the separate transmission of the had a separate critically it was a separate critically its a separate with others process that the total them the process that the separation is about the act of the state of the state of the separation is about street but the result of leadences, which caracal circumstances, may combine to weaken a overbear. In a superior organ for the scale of bud experiences went have the core of the season of the

To return to the hebject of the feely. All that has been said about their behande origin and imperfect coorolination in equally applicable to svery bone, ligament nouscle, beford, nerve be of the feet, or elsewhere in the body; may it is applicable to substitutions of these, but to that extent it is impossible to the say. how writers in anatomy enumerate different organs in the human body and therefore their must be at least that number of separate, centres of development.

The separate sources of these separate organs and their bubilings are called & W. Darwin germe. They must be looked when as real objects though by small ones, which severally seemby Money much de vere, togette, and others are remote It is imposed They rugch bed aganted it seems imposible to south but that the germs xunt be flightitie, while still in their undebelowd the hop only has a sixall supply to Prolifice character of the germent a los the material of facts to account to ; namel, the people tit of a person has transmitti; "characteristici of his ancesting to his descenting although he himself did not happen to popele them. They excited as germs in the amusting grand parent and also in where communicated as garner the child, in What state with they contained in the passal a W. Yurwing Uplier - as gerins alto. He aframe, that the germen must be prolific, while still in an undealful state, and this appears to be the second turn on the long that lead ! to the true theory of head & antorea.

Pargeninis has at the merets of a medicalar hypotheris, of it ask nothe relief in no mysterion, "estat principle" cafted " with supernatural persons of shaping uniform material cultivation for the persons that the marvellen company may be described and the mulical actions of company times the mulical actions of company to simple materials, we mulical actions of company germent of simple materials, we materials highly complex germent their that the selection prover of fillen dust in prosigioned freat, to that of thousand, of closely allied steams felents there is no for little if an pubabilit of in muching have equal a greater dericted of affinities. The people of science in all the branches has been stonded thereof there my view in high others if fluid in penderable agent, there of the honder by the finite in penderable agent, there of those feales viens and it is a price leadinable that being there dit the lace the same there to be the to be counter the file to be beauted have to refer to the truth of the color to the in the sure of the land of the truth of the part of the lander x teller simplicit exceeds and commend Themselves torn acceptance by their extreme simplicity, Succepción I do not propose to follow her Darwing step, glorely in the general expection of the were in which these affinities have be rapleded to act he hagade of a stap by step action, one germ tixing itself a developing them another complementation of the house the hours will like another to the highest the last acquired him to have been action to the hours of the hours

Affinities of germes The third of Mr. Euroving hypotheter with if facilities.

This whether the multial afformation believes the germe are
the sole cauter which delermine the order and place of their developement. For any complete theory of heredit, we onglet we don't the able to specify with precision. what the causer are, but the an incomplete theory which that reverthely be light to far as it coes, we may avoyor ignorance of them cause, confining in all published, one of them and thet, arqueing from the General tendency to family rescribbance, many of the cause, must be constant, and that arguing team contrag the varity of extremes close family resemblance a the frequency of untiketich, there must effect of the constant causes must be interfered with by a luce number of variable ones. A single influere france may be siver in illustration; that of the Effect of relative positions in the action of affireties her if a germ A is any other object A have affinities with other object, in the same group, Struget with Is next strangest with C, then with I sto un, it follows that the effect of there affinities will defeat much when the relation positions of A & BCD2 reshectives. If The neaver object

Medical Ability and arise from the interior and send get the winds affects of the tyrus may be sentent and send get they wished affects of their mand be the exceeding variable and and the affects of them the transfer much be the exceeded their pointers of the grown to the affects of their compounts of the relation fronters of the genus & this when the result because in the relation fronters of the genus & this when the result because the transfer the totals when the result because when the result weather the totals when the others to the send and the send an



The parts of the theory that I peoper to been a robe one that the development of the consecution development of cells, in which each form Each new cell being formed to a germ which has attached itself by virtue of its inherin aftiration to be present attention of the present a motion to that includes as with be teen band as will be seen, as much on an lipeatly as afternity a leading to sucception degregations. The ottes, put theory transformed almost what has a ride, is the ottes, put the circulation of the german in the about book organised book.

he bart multitude fortherest, which is contained by come harmy transferred by hothers, must be all contained in the newly fertilited over which is the starting hoist of individual life. Its size is much the same in all manufaction, whether in the slephant in man or in the field mouse, and is about that I the head of a small pin. A contiderable past com of this minute object, appears to consist of mere nutriment, into the rest of it there is somehore

- packed not only the above mentioned ingredient at the far larger store of representatives of those ancestral peculiarities, which are not destined to be developed in the individual that is thereed him the over, but which he will trasmit, or would be capable under favorable concumitance, transmitting, tome nonore of his posterity Direct observation can tell us nothing as t the form in which this material exists, to its details are so minute as to begind the ken of vision, even if their Separate actions when light were such as to render them chistinguishable by the eye. Cells and their contents are to biologists looking Howald their miscoscopes, much as mail begg and the heaps of letters which are housed out of them, are to spersons looking through the offer windows of a post office. They war and ingenious and important conclusions as to the General character of the postal communication, and the places from which the letters have

Global tingancestores know had but as an out volout of trans out to face the the day not houself topef.
It to down that the arties touch the fire the translater to many the there is to the translater to many the there is the translater to the total to the translater to the total total to the total total to the total total to the total total total to the total tota there gerum may recide the thought ferther get to betermined in Mi darwing elaborate the organistic to the provisional behavior of Vancomeria" they are taphored to circulate freely through the body countries before a countries by blance) 3 said to the the hole the Jearent of a cell breezed the which cells are about of three actions for breezed the which cells are about to the following the property of the body contained to the provision of the contained to the provision of the contained to the provision of the white body and the training the germs of the white body and the circulation of the germs of the white body and the training the germs when the second to the provision of the contained the germs of the white body and the training the germs when with affected. Both of there extreme views have adapantages a diffradrauting rate which it is uniquelying here enter probably the truth lies some where believes them the Bull Darwin the believes the committee of the Bull Darwin the theory of the probabilities which are thereof there is the court of the probabilities which are thereof there is the court of the probabilities which are

come, but they count read a word of what those letter contain. an that we can for the present learn concerning the ingredients of the oven must to the prefent be through inference, and not In order to Save cincumbocation, we had better employ some short word to express the sam total of the ingredient, other than mere nutriment, of the newly fertilised oven, and as the Latin word "stirpes", which means root a stene, has not get been appropriated by biologerts, we may use its Inglish equivalent "stirp" to that purpose. It will be understood that as the stirt is the whole was hopefred at the first moment of independent existence, it must contain the germs of all that who go to the making of one individual a logether with all those other germs that will not be developed in him but will remain dosmantiching though not extinct, as howard by his retaining the power of transmitting them this descendant.

det There can be tittle toubt that the stirked brother in and winter are always much at he, to they consist of dimple organisms severally derived from those of llies; haut, and timple organisms, bessed tout to their kind, get the brothers and triters often are very much unlike, and for of them takes, to include after the father and another after the Mother and another after the Mother. Upon the germ



the same grown affinity of the letter. Now we material object must be a different degrees of vicinity to their in the same grown and therefore the theory of motived german appears the involve the idea of a vast variety of small variable causes due producing primary difference of position a ultimately warrings with result.)

Then far at have followed Me Carwins steps, simply heating at what he has solicily laid deren and hand what white soil the source read in the original. (Someticales of blund, a animals will for a like him of the principle deficilies which a true through heredily can much solve I much supply on their familian the solve of much supply on the familian the for which I display an atherity and withing of the opposite of the parties which of hear the confidence of the part of

in the who and downs

from of selections, no that we case illustrate what we may while to find in here Isty by the well known until of ordina, of factorial party throughter the there, the merils

with sites is a c, though it affinities may not be with sites is a c, though it affinities may not be the tame for both of them, enables us to import a chemical word into biological phenuslogy. Chemist, are familiar with the existence of their of compound, which they name "allotropic". There are identical in plan, but only analogous in material; thus, I soine a Brownine having andlogous qualities, soing chemical combination in which the one takes a party can be material by an exactly similar combinates in their can be material by an exactly similar combinates in their takes and the sure takes a combinates in the party is replaced by the other takes the same party.

This non-ideality, but analogy of material, combined booth ideality of Itan is precisely that which charactery, different indicated of the same race; we may therefore employ the nomenclature of chemistry, and say that different individuals are also tropic forms expected paints of the same large medley of materials principle out of the same large medley

the more incongrous the ingredients of the stirt, 196 the more diverse are the hopribilities, as regards 196 the individual who may be developed out of themy therefore the descendants of a mixed ancestry much there of a hun breed will always resemblance to on another, and their parent. the indefinite maintenance of a race. There are proceed as the franciste in the former from the franciste of the proceed of the proceed of the former flate. the count of the lower animoul, can be formed but it the fire carried in to many stones in tuccepion in appear in tuccepion in appear in the maintains Supposed succeptibil deteriorated and finally depolipear, miles t'as it certains end in decay. But of at any time, the bisexual



clentify developed arms That hast of the stirt which has become segregated to developement, is nearly sterile. The degree of its sterility is the measured by the almost complete non-transmission of acquired habits, and of such modification of structure as were invaced by accident a diserse. It follows, that as fertility resides somewhere, it must be vested in the non-diviliped residue of the stip or rather, in its representatives (whatever they may has reached about life I that already been shewn that the dominant character of the stick is on the whole indicated by the individual who is developed out of it and thence of contract the general resemblance of "child to its parents must entre. But

prot. 360

there is an opposing condition which must not be upler some chance combination of circumstances be so great as when which Stependlam (the elatobit hagents this; if the segregated elements be a fair representation of the stirt, they cannot hopothy be an Equally fair representation of the residue of the stirp. Whenever the best portions bits If any mixture medles are hicked out, the average quality of what remains, cannot be to good as it was before. It is firstuble that every Ever where there had been no selection there would brugget of this. Thurs out out and their there had been no selection there would brugget of this. Thurs out that a person churchwarden emplici the plate, who had king Congregation to Sport his hand article of a handful of coins, Este whether much gold had been faut in. Contributed. On the whole, this handful would be a fair specimen of the contents of the purse, but It is guite hopeble that all the gold might their

together in the hurse & that his handful Mirrote have continued it and nothing Elu. So far from his handful being in this care, an indication of what remained in the purse, it would entire! misterd. The encluria, is obvious, we frame it has been shown that the vacaber of molecules I Each variety in the stirk is probably small, therefore it is very hopeth that extreme cakes may occur in which perhaps not a single molecule remains in the stirk of the same Kind as those which have been plentitute, segregated term it to developenent in the individual. In these cases, the person will be whole incapable of transmitting the qualities by which he is especially characterised. Txpore testifies to the existence of such cake, to example, been delicient, and coming poured thou cate, where the man of genius was the iffspring of mediocre ancestry I the animat best clements of the stirp being signegated & rendered Merils is the strong tendency tideterration in lock race.

this is there emphatically by the fact, that races are kept just up to their level by the severe action I natural selection. If they were left tunffranches, lyring gree seneration ben of the race would have miroras and themesase average vigour of that generate in world consequently have declined. The steady tendency to deterration is also shewn by the great difficulty that breeden have in keeping up a valuable variety which has been produced of accided (that is by some haply combination of a number of unknown variable causes), and by the frequent falling off in familier that were once biseaux attenute generaliur de october elements of the Atich, giver an interpretation to the fact of certain order, breaking out in alternate in more distant generation, if we consent to make the further ver reatenable sapportion that the insteader are those diseases an exceptionals bitt. Eregarious & prolipie. then of owing to their gregarious natures, at rearl, all the gout molecules in the Stick of M became Seveloped in his person and consequently sterite, the small

fertili residue, in his stirk would be intefficient to transmit any notable quantity of them to the stirt of his child No therefore they would not dominate and achieve development in the person of N, but they would be husbanded and in the mean time neultifly over, to their prolific nature, and would increase in the next or in some early subsequent generation in sufficient numbers to

a chieve developement, as before.

Relation of chattle present in a portion texplain the relation which connects an individual with his parents, and which is curiously circuitous. The Stish from which the incividual is developed, ws, descended directly from the Teridan of the two Hisper out of which his parents had been several developed. His stick also termet receives some very slight contributions from the developed moderale, of his parents. It is possible an analogous form of relationship titles, is to be found in members 1 that which may be conceived to unites the govern. - ment of an idedependent colony with the

the member of the parent. Countries, from colide its inhabitants were derived. The inhabitants healt and large corresponds to the stirp, & the menty of government correspond to the segregated a developed molecules. To brake the metaphor quite corred it may be supposed that the members of govern.

- ment of the parent countries, had some small pribilege of nominating energy rants.



of the fittest half . 196.200

(Sexes) much wonder has been experched at the fact, that a race cannot ling been carried in I say process of budding but that the Concourse of texts two individuals of different ties, is suchary efectial to its indefinite manituance The enteri explanation of the fact seems to me to flow very semple from white they been already universely the factorialism resuperate from universely the first securit is any other of the life history of the first securit is any other of the board in sucception stages of descent the diagram represents that 1 the third bid. at each sucception I'm stage there is always a chance (and the distribly a large one of some of the species of gering the dy's on when there and they are transferentle Containing Sucception stage there is a tendency to deterioration, which must alternately person fatal I In the other germen of each kind are in the average supplied the Tew goodatins

forexactly in half of his possible inheritance roust have been suppressed again, the Constation of space requires a limitation of the number of each kind of rusticules and some such hy hotheris sufficient number of many gradations, in inheritance Thur, some simple object as a mole on the forehead, is not transmitted of half time to the child, of quarter the size to the grand child, & so on lost in an indefinite deries of succepion subdivisions, but it is either present wholly is not at all, there are never many intermediate stages. Of course there are more gradation in compound result, as in an expulsion of the face, because any, one or more of the its elementary causes may be present is combination of the someth be very great, there is room to a too large number of grades between the complete inheritance of the expression and its total extinction.

Chance of the joint soffer of an trao individual, taken at hazard beig insufficient to the risplate but it in counteracted by the fact that the two indictional. Now even if the most delineorated specement of the lace had an equal chance in marriage with the rest, the probability of the fourt suffely of the parents beig insufficient to would be to small; that the manker of familie, who became extend through that cause, would be easily counterbalanced by the tendency to vicione 1 - at hopentation. It is still straller owing to the fact that the weakest do not maring so often as the futest chance of families design out now; I then Cause. But what if they do? The remaining families are perfect, sound, and tell up, only to caret, the gap. For In unisexual generation long brands
of every family is dooned in the sexual only an
exceeding few function butter, the remainder being in in no was frejudiced thereby

a medleg of separate ingredients are inherited but it is many of which are incongrous and some contradictory but of there in the dominant portion becomes developed. I This condition of affairs is herfely elections in which the body felectors represents the stirf and the charten candidate prevalent political opinion represents the individual developed out of the stirle. Where harties are balanced, a triffing circumstance will make sitte one or the other privail, and though there is little change in the opinion of the electors generally Let a denale majority will the fired winant bothical opinion may go through Great this sucception, elections to, in the can of brother, & tisten; their stirper may be mary identical. but truals circumstance, may cause the ene set of elements & dominate & Ducome developee in the one and another set in another.

Trous definitions. another argument to the same effect is derived from the history of twins, about which I have made many inquiries. The applied of there, to far as they relate to the present subject, appear, Low, that true levenis, - that is to say those who at the time of their birth are enveloped in the same membrane and have therefore been developed out of two germinal shot, in the my horost which which strait to the year majorit deaper same oran are characterised generally of the close, than brother in titlen generally lights lemain was still a she close, resemblance and otherwise to the arriver of the circumstant of the cares they are of the Same sex, when the perfectionists of the circumstants of the care they are also always of the same sex. The explanation of this is simple, in answered hypothesis, supporing the ingredients of the sting First, we think expect that the two halves of any medley world be closely alike and as then halve, are developed under identical Circumstances we should expect the developerary t be identical. On the other hand we thould expect, if a sufficient delay had occurred

before the division commenced, to the ingredient, to abrance themselves as little after their affinitions, that the two halves would consist of opposed factions, to to theak, and would be strongly contrasted. The ideality of sex in both case, would be expected owing to the ideality of others.



Tocal Position on medley - brother studing That the gormer excited in a state of medle, have, the power of tree movements, at on the carbiel state of life is probable from may reasons. The firemal cell divider and tabelivider sucception, lach tucuficar subdivision resembley that if a mote with two factions, beauty heact, ward different allitates. Du Water author reator worth considering in the derived from the occasional great diffismitarity brothers & serten. There can be no doubt that the stirtes of brother and visten must be always must alike for they consisty simple organisms derived from the same parents, and umple organisms breed line to their kind, get the brother and Linters are often by much white one to instance takes after the falter & souther aller the nother. Upon the germ hypotheris, their difficults diferphouse

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enquire inte what the conditions may be, which favor the chances of any element to faceced in developing dielf, but we man specific out the mind. This is, the import accidental place of the several restrictes just before organization commences. It follows from soir restreader hypothesis, that the restricte A must have certain other motients, more closely defacent to them of them organization commences to the middle of them organization commences to their make considerable of flerence which I the two Bir C, with Each of which A

Summer, (Germs Germane prolifice while latent Larwin relani-Larren arrive twensclass of their affinition Freel circulate transford life port office the tente not retains F. preliminary Stirp - meaning of Election timile. Latent and develiped. L'advantige of state sties in hered: research (suppression / /2 populle heretage Limitation of Space Sexe, verms badoing few gradelines in whentener local portion, a medles brother & sisters hour alike and unlike. Steretof of developed army (non interstance of habits Consequence (chold by with parent dillare in allernation de meratino deliveration of race Melatin of child to present Remain unsettled GALTON PAPERS

In This rapid worther of many difficulties of forthe miticate been said to show how valuable wich is the range of that application a know great it the papabality that the true theory of here's a nobecular me. It will be toom in mind that I know of no difficulty which thou details the todawer of the less the discovery hereby the todawer of the less of the less of the solver and the thought the less of factors in the molecular theory to be discovered police that the fact their solution. The theory stands at present in a very general form relying only in the facts that there are general that the germe are prolific in a latent x very stirlet to almost the with in a developed state, that only fort of the some of the varieties of germs in the 2 which are developed a that the ust survive in a later their mutant office butent form they develope some the influence of their mutant office. of the whereabout, of the latent germe in the

developed individual, not finding it necessary L do to to far as we have as get back concerned and because Wis Darwini free / they free Circulation thank out the body seems ofer.

Legran objection, Among which are the fait a exceptional effects of graff by bricking to strong the fact that I myself produced a system of long things Crop circulation between rabbits of different breeds by temporarif connecting their Carolid artevier crop ways together; the until the was that I obtained pure sitoir goen rabbits of both Lexes, in when a tentalf their blood had been replaced by the blood of large topped cared coloured Intotate a Then I tred from the siteer goes whow blood her beinged & lagain operated in their descendants. This I did conseculous To no left than five generation, without the this blest effect on the hunt of their breed. Mitherments when they had extended over three queration were published Proc. R. Soc 18.) I ded will succeed in the experiment, I askertan

developed.

If the parent states contained the the sunday heoples and of the and their colony inhabited similar countries the government, we should expect the government, would be the government, would be the about the tephole Mousand of scan have letthe changed little changed little the the thing splitter, and the little changed little changed little changed little conditions to the fire to the test to and a little from the trees the fire of the test of the state of the fire of the test of the test of the state of the fire of the definites peoples, the government of the collery is to those of both paval state, and very community state with the second of the state of the second of proceedure. The perfect of the second of parallely the second of parallely the second of the seco the effects of on the column government polities du to the alleved chimate conditions] A life conten which the colony exects. Last in cases when the citing it established under on deternational our stem to there of the parent thate, we my trace in the differences of it, government the pricite effects that we wierter in herealty dudgeriday Millen

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