

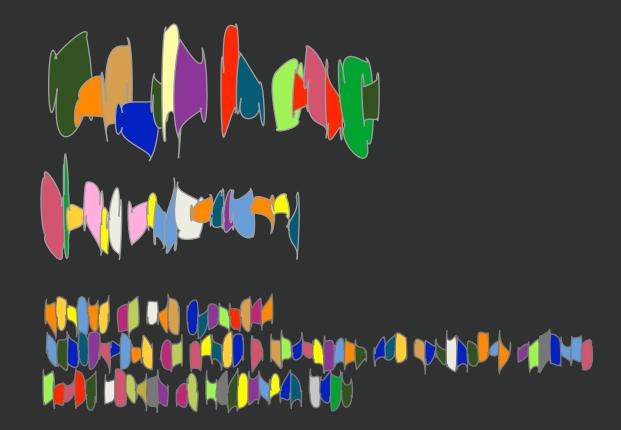
ema ks on Colou

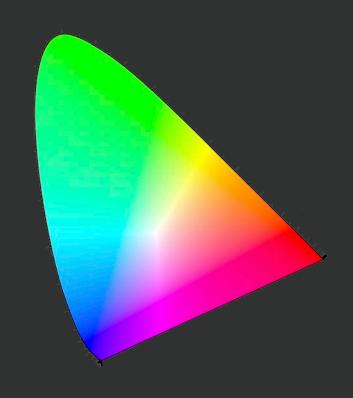
Ludwig Wittgenstein

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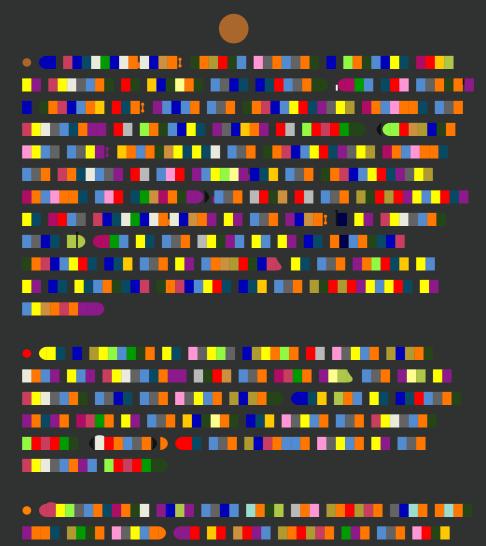




1 a language-game: epo t whethe a ce tain body is lighte o da ke the nothe - but now the es elated one: state the elationship between the lightness of ce tain shades of colou (compa e with this: dete mining the elationship between the lengths of two sticks-and the elationship between two numbe s.)-the fo m of the p opositions in both language-games is the same: "x is lighte the y'. but in the fi st it is external elation and the is tempo al, in the second it is in internal elation and the p oposition is timeless

2 in a pictu e in which apiece of white pape gets its lightness from the blue sky, the sky is lighter than the white pape and yet in anothe sense blue is the dake and white the lighter colou (Goethe). On the palette white is the lightest colou

3 Lichtenbe g says that ve y few people have eve



seen pule white. so do most people use the wold worg, then? and how did hele in the collect use?

The constructed an ideal use from the olding yone. and that is not to say a better one, but one that has been effined along certain lines and in the process something has been collect to extremes.

4 and of course such a construct may in turn teach us something about the way we just a true the word.

5 if is y a piece of pape is pule white, and if show we eplaced next to it and it then appealed gley, in its no mall surroundings i would still be light in calling it white and not light gley. It could be that i use a mole efined concept of white in say, a laboratory (where, for example, I also use a mole efined concept of plecise determination of time).

6 what is the einf voor of signification of signification of signification of signification of blue and yellow? would it be ight to say: "you can only know it directly by



how do i know that i mea the same by the wo ds "p ima y colou s" as some othe pe son who is also inclined to call g een p ima y colou no,- he e language-games decide.

7 someone is given ce tain vellow-q een (o blue-g een) and told to mix less vellowish (o bluish) one-o to pick it out f om a umbe of colou samples less vellowish q eer howeve is not a bluish one (and vice ve sa), and the e is also such a task a choosing, o mixing a g ee that is neithe vellowish no bluish. I say "o mixing" because a g een does nd yellowish because it is p oduced by a kind of mixtu e of yellow and blue. Tanslato s note: Wittgenstein w ote

8 people might have the concept of inte media v colou so mixed colou s even if they neve p oduced colou s by mixing (in

p esumably meant "bluish".

"g eenish" he e but

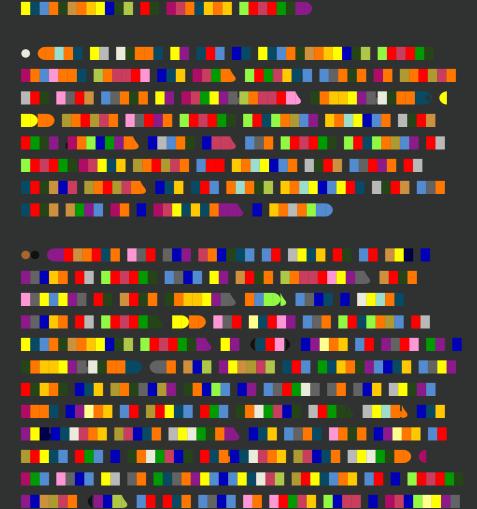
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whateve sense) their language-games might only have to do with looking fo selecting all eady existing inte media y o blended

9 even if g een is not inte media v colou between vellow and blue, couldn't the e be people fo whom the e is bluish-yellow, eddish-q een? i.e. people whose colou concepts deviate f om ou s because, afte all, the colou concepts of colou blind people too deviste f om those of no mal people, and not eve y deviation f om the no m must be a blindness defect

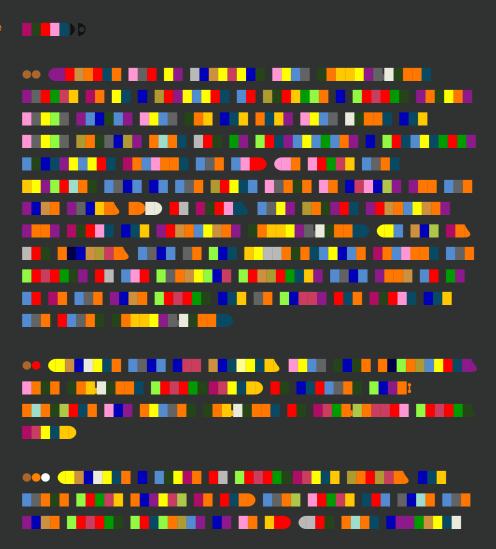
10 someone who has lea nt to find o to mix shade of colou that is mo e vellowish, mo e whitish o mo e eddish, etc., the given shade of colou i.e. who knows the concept of inte media y colou s, is (now) asked to show us eddish-q een. he may simply not unde stand this o de and pe haps eact though he had fi st been sked to point out equi fou five-, and six-angled



plane figures, and then were
asked to point out a regular
one-angled plane figure.
but what if he unhesitatingly
pointed to a colour sample
(say, to one that we would
call a blackish brown)?

11 someone who is familia with eddish-q een should be in a position to p oduce colou se ies which stats with ed and ends with g een and which pe haps between the two. we would then discove that at the point whe e we always see the same shade. e.a. of b own, this pe sor sometimes eddish-g eer it may be, fo example, that he can diffe entiate between the colou's of two chemica compounds that seem to us to be the same colou and he calls one blown and the othe eddish-g een

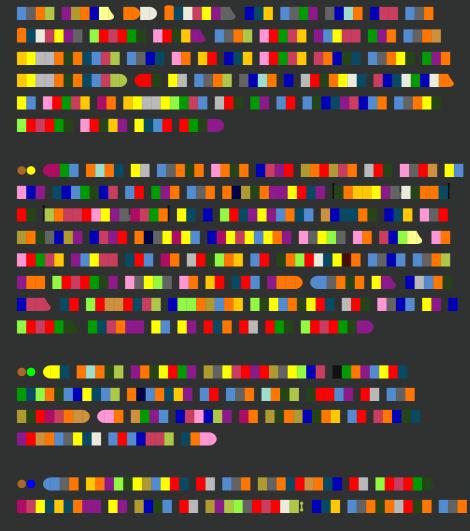
12 im gine that all
marki d, with a e
exceptions, we e ed-g ee
colou blind o anothe
case: eve yone was eithe
ed-g een o blue-yellow
colou blind.



133 im gine at ibe of colou blind people, and the e could easily be one. they would not have the same colou concepts as we do, fo even assuming they spe k, e.g. English, and thus have all the English colou wo ds, they would still use them diffe ently than we do and would learn their use differently, or if they have a foliation of the colou wo ds into ous.

14 but even if the e we e also people fo whom it was natural to use the expressions "eddish-green" or "yellowish-blue" in a consistent manner and who pe haps also exhibit abilities which we lock, we would still not be forced to edg ize that they see colours which we do not see, the eis, after all, no commonly accepted criterion for what is a colour unless it is one of our colours.

15 in eve y se ious
philosophical question
unce tainty extends to the
ve y octs of the problem.
we must always be prepared

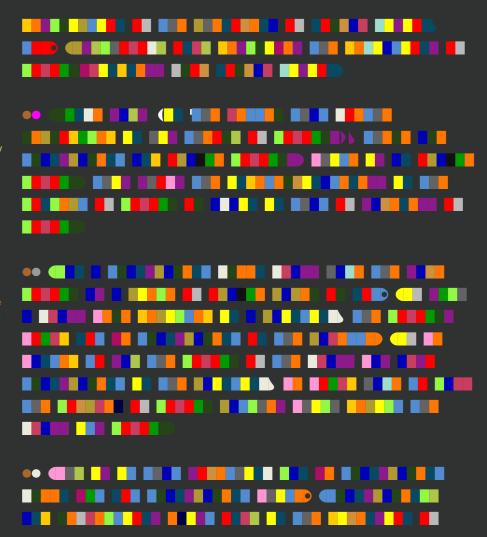


to lean something totally new.

16 the desc iption of the phenomena of colou blindness is part of psychology; and the efore the desc iption of the phenomena of normal vision, too? psychology only desc ibes the deviations of colou blindness from normal vision.

17 unge says (in 'the lette that goethe ep oduced in his theo y of colou's), the ease transparent and op que colou's, white is an op que colou's, white is shows the indete ministeness in the concept of colou or grin in that of simeness of colou

18 cm at ansparent green glass have the same colours a piece of opaque paper or not? if such a glass were depicted in a painting, the colours would not be transparent on the paletter if we wanted to say the colour of the glass was also transparent in the printing, we would have to call the complex of colour patches which depict the glass its



19 why is it that something can be transparent given but not transparent white? transparency and effections exist only in the dimension of depth of a visual image, the impression that the transparent medium milkes is that something lies behind the medium, if the visual image is the oughly monoch omitic it cannot be transparent.

20 something white behind a colou edit ansparent medium appers in the colou of the medium, something blick appers blick according to this ule, blick on a white bickg our diwould have to be seen through a white, transparent medium as though a colou less one

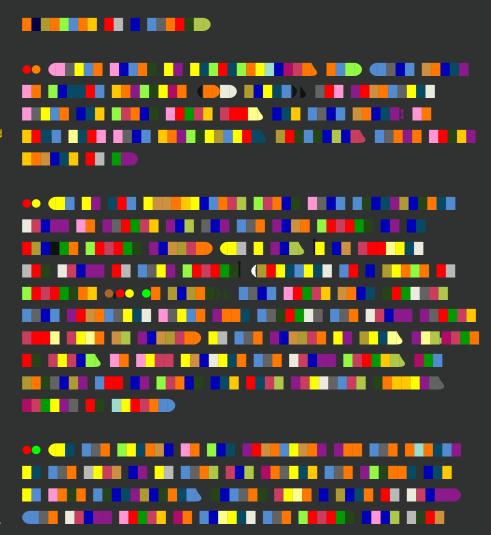
21 unge: if we we e to
thick of a bluish-pange,
a eddish-g een, o a
yellowish-violet, we would
have the same feeling as in
the case of a southweste ly
no th wind.... both white
and black a expanse o
solid... white wate which is
pule is as inconceivable as
clear milk."



22 we do not want to establish a theo y of colou (neithe a physiological one no a psychological one), but athe the logic of colou concepts, and this accomplishes what people have often unustly expected of a theo y.

23" white water is inconceivable, etc. that means we cannot describe (e.g. paint), how something white and clear would look, and that means: we don't know what description, politically these words demand of us.

24 it is not immediately clea what t anspa ent gl we should say has the same colou as an opaque colou sample. if i say, "i am looking fo glass of this colou " (pointing to a piece of colou ed 1-24 5e pape that would mean oughly that something white seen th ough the glass should look like my sample. if the sample is pink, sky-blue o lilec, we will imagine the glass cloudy, but pe haps too as clea and only slightly eddish, bluish o violet.

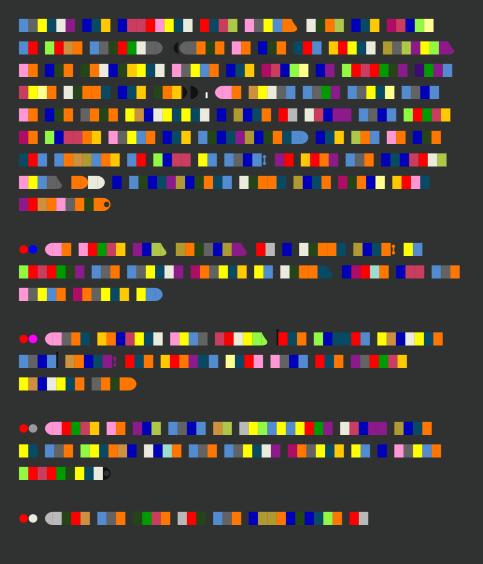


25 in the cinema we ca ometimes see the events in the film as if they lav behind the sc een and it we et anspa ent, athe like a pane of glass. the glass would be taking the colou away f om things and llowing only white, g ey nd black to come th ough (he e we a e not doing physics, we e eg ding white and black as colou : ust like g een and ed) we might thus think that we e he e imagining a pane of glass that could be called white and t anspa ent. and yet we a e not tempted to call it that: so does the analogy with, e.g. t anspa ent g een pane b e k down somewhe e?

26 we would say, pe haps, of a gieen pane: it colou sathe things behind it gieen, above all the white behind it.

27 when dealing with largic, "one connot imagine that" means: one doesn't know what one should imagine hele.

28 would we say that my fictitious glass pane in the



cinema gave the things behind it a white colou ing?

29 f om the ule for the appearance of transparent coloured things that you have extracted from transparent green, ed, etc., ascert in the appearance of transparent white! why doesn't this work?

30 eve y colou ed medium da kens that which is seen though it, it sw llows light: now is my white glass also supposed to da ken? and the mole so the thicke it is? so it would eally be a dark glass!

31 why can't we imagine transparent-white glass, even if the e isn't any inactuality? where does the analogy with transparent coloured glass gowing?

32 sentences a e often
used on the bo de line
between logic and the
empi ic I, so that thei
meaning changes back
and fo thand 1-3 2 6e they
count new as expressions
of no ms, new as
expressions of experience.
+ (for it is centrally not



pheromenon this is how we imagine thoughts' - but the use, which distinguishes the logical proposition from the empirical one.

33 we spe k of the 'colou of gold' and do not me in yellow. 'gold-colou ed' is the plope ty of a suif-ce that shines of glitte s. ii

34 the e is the glow of edhot and of white-hot: but what would blown-hot and g ey-hot look like? why cut we conceive of these as a lower degree of whitehot?

35" light is colou less". if so then in the sense in which numbe s a e colou less.

36 whateve looks
luminous does not look
g ey. eve ything g ey
looks as though it is being
illuminated.

37 what we see as luminous we do not see as g ey. but we can ce trinly see it as white.

38 i could, then, see something now as we kly



luminous, now as g ey.

39 is m not s ying he e (s the gest It psychologists do), that the impression of white comes about in such and such a wy. The the question is precisely: what is the meaning of this expression, what is the logic of this concept?

40. for the fact that we cannot conceive of something glowing grey belongs neither the physics no to the psychology of colour

41. i am told that a substance but is with a g ey flame. i don't know the colou's of the flames of all substances; so why shouldn't that be possible?

42. we speck of a dark ed light but not of a black- ed light.

43. a smooth white suffice can effect things: but what, then, if we made a mistake and that which appeared to be effected in such as suffice were early behind it and seen through it? would the suffice then be white



and t anspa ent?

44. we spe k of a 'black' mi o but whe e it mi o s, it da kens, of cou se, but it doesn't look black, and that which is seen in it does not appear dity but 'deep.

45. opaqueness is not a picpe ty of the white colou any mole than transparency is a picpe ty of the queen.

46 and it does not suffice to say, the word white "is used only for the appearance of surfaces, it could be that we had two words for "green": one for green surfaces, the other for green transparent objects, the question would emain why the existed no colour word corresponding to the word "white" for something transparent.

47 we wouldn't want to call a medium white if a black and white pattern (chess board) appeared unchanged when seen though it, even if this medium educed the intensity of the othe colours.

48 we might want not to call white high-light "white",



fo that which we see as the colou of a su face.

49 of two places in my su oundings which i see in one sense as being the same colou in anothe sense, the one can seem to me white and the othe g ey. to me in one context this colou is white in poo light, in anothe it is g ey in good light. these a e p opositions about the concepts white and g ey

50 the bucket which i see i f ont of me is glazed shining white; it would be absu d to call it "g ey" o to say "i eally see a light g ey". but it has a shiny highlight that is fa lighte than the est of its su face part of which is tu ned towa d the light and pa t away f om it. without appea ing to be diffe ently colou ed. (appea ing, not ust being.)

51 it is not the same thing to say: the imp ession of white o g ey comes about unde such-and-such conditions (causal), and: it is an imp ession in ace tai context of colou's and



52 white as a colou of substances (in the sense in which we say snow is white) is lighte than any othe substance-colou black da ke he e colou is a da kening, and if all such is emoved f om the substance, white emains nd fo this eason we ca call it " colou less ".

53 the e is no such thing s phenomenology, but the e a e indeed phenomenological

54 it is easy to see that not all colou concepts a e logically of the same so t, e.g. the diffe ence between the concepts 'colou of gold' o 'colou of silve and 'vellow' o 'a ev'.

55 a colou 'shines' in its su oundings. (ust as eyes only smile in a face.) 'blackish' colou - e.g. g ey -doesn't 'shine'.

56 the difficulties we encounte when we eflect oout the natu e of colou s (those which goethe



wanted to get so ted out in his theo y of colou s) e embedded in the indete minateness of ou concept of sameness of

57- [" i feel x." " i obse ve x." x does not stand fo the same concept in the fi st ind the second sentences even if it may stand for the same ve bal exp ession "what kind of a pain?" i the first case i could answe "this kind" and, fo example, stick the questione with needle. in the second case I must answe the same question diffe ently; e.g. "the pain in my foot" in the second sentence x could also stand fo "my pain", but not in the fi st.

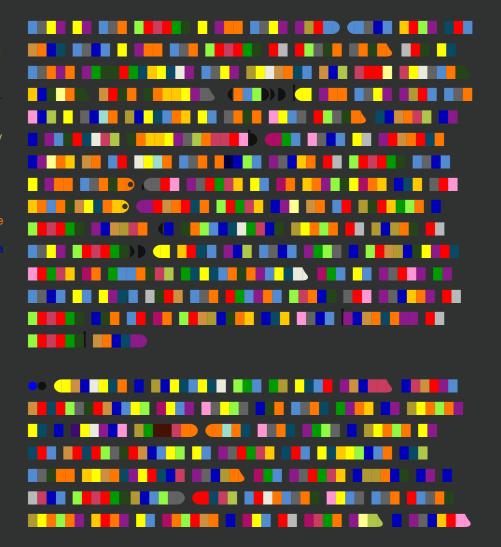
58 imagine someone pointing to a place in the i is of a emb andt eve nd saying: "the walls in my oom should be painted this

59 i paint the view f om my window; one pa ticula spot, dete mined by its position i the a chitectu e of a house, I paint och e. I say this is the



colou i see this spot. that docs not mean that i see the colou of och e he e. fo in these su oundings this pigment may look lighte da ke mo e eddish. (etc.) " i see this spot the way i have painted it he e with och e, namely as a st ongly eddishyellow" but what if someone asked me to give the exact shade of colou that i see the e? - how should it be desc ibed and how dete mined? someone could ask me to p oduce colou sample (a ectangul piece of pape of this colou) i don't say that such a compa ison would be utte ly uninte estina. but it shows us that it isn't f om the outset clear how shades of colou a e to be compared and what "sameness of colou" means.

60 imagine a painting cut up into small, almost monoch omatic bits which e then used as pieces in a igsaw puzzle, even when such a piece is not monoch omatic it should not indicate any thee dimensional shape, but should appea as a flat



colou patch. only togethe with the othe pieces does it become a bit of blue sky, a shadow, a high-light, t ansparent o opaque, etc. do the individual pieces show us the eal colou s of the parts of the picture?

61 we a e i clined to believe the analysis of ou colou concepts would le dultimately to the colou s of places in our visual field, which a e independent of any spatial or physical interpretation, for he e the e is neither light no shadow, no high-light, etc., etc.

62 the fact that I can say this place in my visual field is gley-gleen does not mean that I know what should be called an exact ep aduction of this shade of colou

63 i see in a photograph (not a colou photograph) a man with d. k hei and a boy with slicked-back blood hei standing i font of a kind of lathe, which is mode in part of castings printed black, and in part of smooth axles, gears, etc., and next to it a grating mode of light



galvanized wile. i see the finished i on sulfaces as i on-colou ed, the boy's hai as blond, the gating as zinc-colou ed, despite the fact that evelything is depicted in lighte and darke tones of the photographic paper.

64 but do i eally see the hai blond in the photog aph? and what ca be said in favo of this? what eaction of the viewe is supposed to show that he sees the hai blond. nd doesn't ust conclude f om the shades of the photog aph that it is blond?if I we e asked to desc ibe the photog aph I would do so in the most di ect manne with these wo ds. if this way of desc ibing it won't do then I would have to stat looking fo anothe

65 if the wold "blond" itself can sound blond, then it's even easie for photographed hai to look blond!

66" can't we im gi e ce t in people havi ga diffe ent geomet y of colou than we do?" that, of course, means:



can't we imagine people having colou concepts othe than ou s? and that in tu n means: can't we imagine people who do not have ou colou concepts but who have concepts which a e elated to ou si such a way that we would also call them "colou concepts"?

67 look at you oom late i the evening when you ca ha dly distinguish between colou s any longe - and now tu n on the light and paint what you saw ea lie i the semi-da kness.- how do you compa e the colou s in such a pictu e with those of the semi-dak com?

68 when we' e asked "what do the wo ds 'ed'. 'blue'. 'black', 'white' mean?" we can, of cou se, immediately point to things which have these colous, -but ou ability to explain the meanings of these wo ds goes no fu the fo the est we have eithe no idea at all of thei use, o a ve y ough nd to some extent false

69 i can imagine a logicia



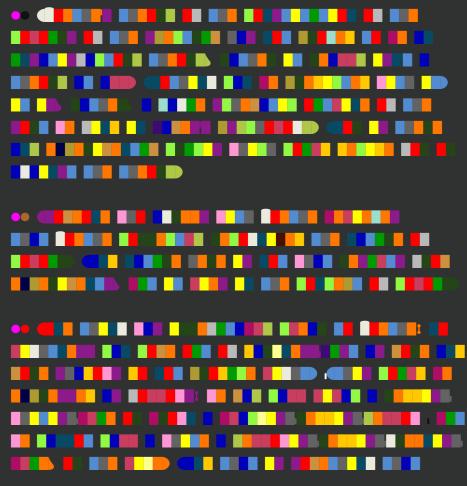
who tells us that he has now succeeded in eally being ble to think 2x2=4.

70 Goethe's theo y of the constitution of the colou's of the spect um has not p oved to be an unsatisfacto v theo y, athe it eally isn't theo y at all. nothing can be p edicted with it. it is, athe a vaque schematic outline of the so t we find in ames' psychology. no is the e any expe imentum c ucis which could decide fo o against the theo v.

71 someone who ag ees with Goethe believes that Goethe co ectly ecognized the natu e of colou and netu e he e is not what esults f om expe iments but it lies in the concept of

72 one thing was i efutably clea to Goethe: no lightness can come out of da kness- ust as mo e nd mo e shadows do not p oduce light. - this could be exp essed as follows: we may call lilec a eddishwhitish-blue o b own blackish- eddish-yellow - but we cannot call a white





yellowish-eddish-g ee ishblue, o the like. and that is something that experiments with the spectrum neithe confirm no effect, it would, however also be wong to say, "ust lock at the colous in nature and you will see that it is so", for locking does not teach us anything about the concepts of colous.

73 i connot im gine that
Grethe's emaks bout the
charactes of the colous
and colou combinations
could be of my use to a
printe they could be of
hadly my to decoats
the colou of ablood-shot
eye might have a splendid
effect as the colou of a
will-hanging, someone who
speks of the characte of
a colou is always thinking
of ust one particular way it
is used.

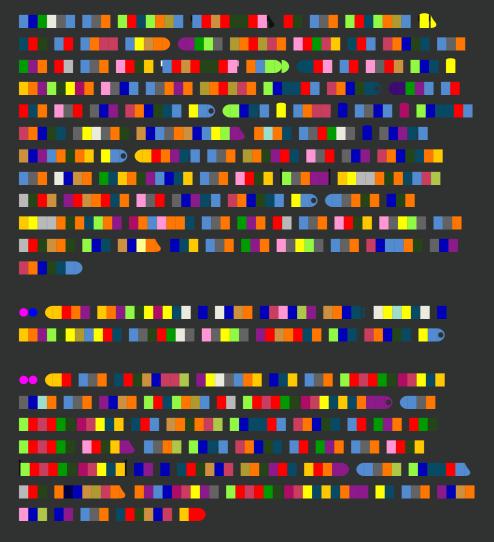
74 if the e we eather y of colou ha mony, pe haps it would begin by dividing the colou sinte groups and forbidding cent in mixtures or combinations and allowing others. and, as in ha mony, its lules would be given no ustification.



75 the e may be mental defectives who cannot be taught the concept tomo ow o the concept 1. no to tell time, such people would not lean the use of the wo d 'tomo ow' etc.. now to whom can I desc ibe what these people cannot lea n? just to one who has lea nt it? can't I tell A that B cannot lea n highe mathematics, even though hasn't maste ed it? doesn't the pe son who has lea ned the game unde stand the wo d "chess" diffe ently f om someone who hasn't lea nt it? the e e e diffe ences between the use of the wo d which the former can make. nd the use which the latte has lea nt.

76 does describing ang me alw ys mean giving a description though which someone can learn it?

77 do the no milly sighted and the colou blind have the sime concept of colou blind ness? the colou blind not melely cannot lean to use ou colou wolds, they can't lean to use the wold "colou blind" as a no mill



pe son does, they cannot, fo example, establish colou blindness in the same way as the normal do.

78 the e could be people who didn't unde stand ou way of saying that o ange is at the eddish-yellow, and who would only be inclined to say something like that in cases where at ansition from yellow though orange to ed took place before their eyes, and for such people the expression "eddish-green" need present no difficulties.

79 psychology desc ibes the phenomena of seeing. fo whom does it desc ibe them? What igno ance can this desc iption eliminate?

80 psychology desc ibes what was obse ved.

81 can one desc ibe to a blind pe son what it's like for someone to see? - ce tainly, the blind learning ent deal about the difference between the blind and the sighted, but the question was badly put; as though seeing we enanctivity and the elve enanctivity and



of it

82 I c.m. of course, observe color blindness; then why not seeing? - i can observe what color udgements a color blind person - or a normally sighted person, too - makes under certain ci cumstances.

83 people sometimes say (though mistakenly), "only I can know what I see". but not: "only I can know whethe I am colou blind". (no again: "only I can know whethe I see of am blind".)

84 the st tement, I see a ed ci cle and the statement I see (am not blind) a e not logically of the same so t. how do we test the tauth of the forme and how that of the latte

85 but can I believe that I see and be blind, o believe that I'm blind and see?

86 could a psychology textbook cont in the sentence, "the endependence who see"? would this be wing? but to whom will it communic to anything?



87 how can it be nonsense to say, "the e a e people who see", if it is not nonsense to say "the e e people who a e blind" but suppose i had neve head of the existence of blind people and one day someone told me, "the e e people who do not see". would I have to unde stand this sentence immediately? if i am not blind myself must i be conscious that I have the ability to see, and that, the efo e, the e may be people who do not have this ability?

88. if the psychologist teaches us, "the eare people who see", we can then ask him: "and what do you call people who see?" the answe to that would have to be: people who behave so-and-so unde such-and-such ci cumstances.

