

this booklet contains several mon-electronic, single-purpose, handmade, artisanas, coloring,

digital computers. they compute when you collaborate with them by following the rules of play.

the booklet contains three series of computers Computers that compare, computers that count,

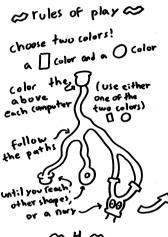
and computers that play.

before each series there's a description of what they do and what you can do with them. the idea is to expose the inner workings of these digital computers and to help rewal how they can perform complex operations with a combination of simple components.

; hope you enjoy this digital time!

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the color coming out will be a only when both colors coming in are	rule! & O
in any other case the color coming out will be O	

Computers that compare & in the next few pages there are two types of computer:

Computer 00 is designed to answer if the colors in its 0 are the same or not it asswers with one color in 0

(computer & decodes
the answer From computer &
translating it from a color
of to a highlighted
MBS or MO

Bwhat you can do &

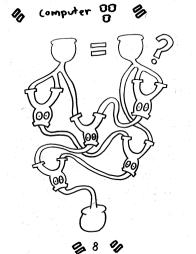
test if the computers do what ; say they do! (answer if the colors in OD are the same)

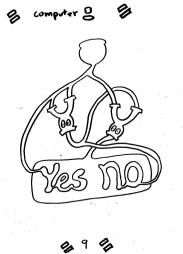
For each pair of BB & Computers

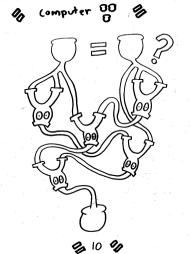
Stry a different combination of colors in the OO of computer BB

Scopy the result of

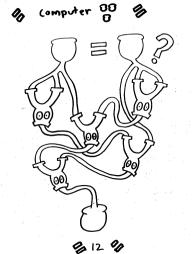
and see if the answer makes some!















the following computers work with a pair of that represent numbers (according to an orbitrary system)

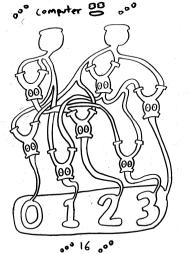
Computer BB takes the colors

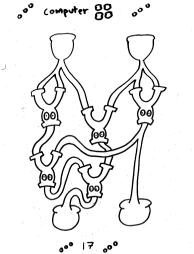
the numeral they represent 0233

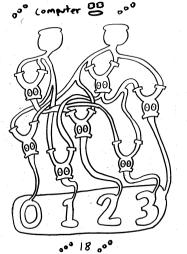
Computer BB takes the colors in its UV and calculates the colors that correspond to the next humber DB computer B is like B B by constructs the numeral B

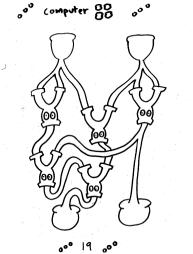
but constructs the numeral 00 in a seven segment display 00 (so retro!)

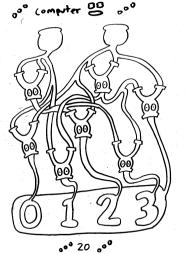
or what you can do or colstart with any combination of colors in the OO of computer of and see to which number they curespand profession the two colors (same order) from computer OF to OF to get the colors or the next number but is it the next number? you can then keep chaining them... 9 % B goduse computer 08 to decode the same sequence of numbers or to see if you Figured out the system OT ex number, o•° 15 o•°

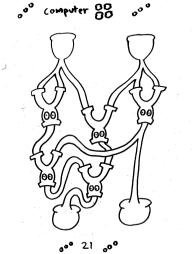


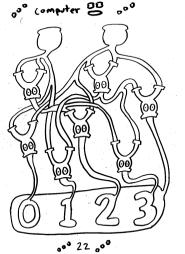


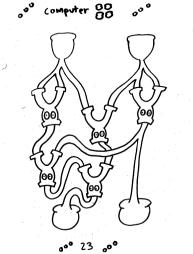


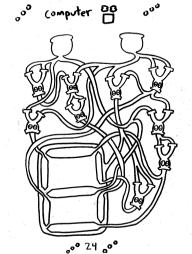


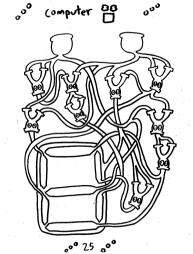


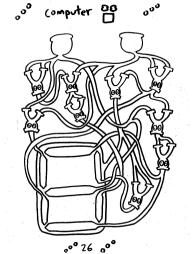


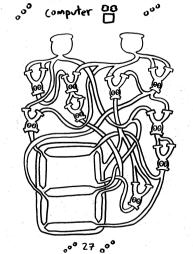








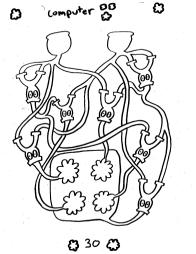


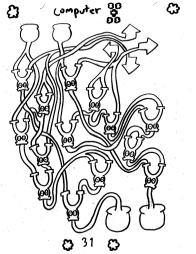


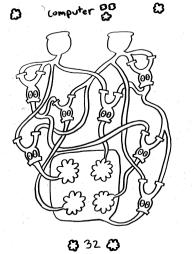
acomputers that play & these computers work with 00 that represent the position of a Eng inside a . . you can move it? The in OD and highlights one of the colors in the Colors (computer 30 takes that colors in 00 and the state of the 30 to calculate a new pair of colors ପ୍ରପ୍ର |

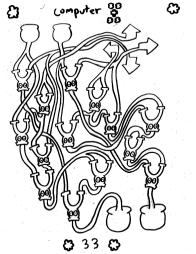
Q 28 Q

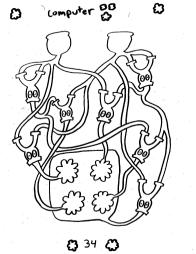
E3 mp at han caige E3 start with any combination of calus in the OD of computer & to set the initial position of the Computer & (opy the two wors (some order) from computer of to obs and activate at least one arrow [] to get a possibly new combination of colors [] [] to see the updated position of the B been chaining them and moving the Garandi OF PROPERTY 0210

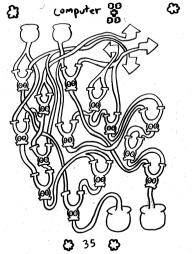


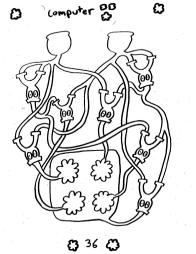


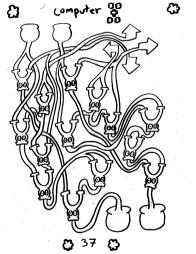






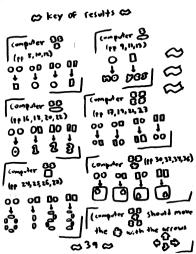






es afterword es

hopefully you enjoyed collaborating with those coloring computars! from a technical standpoint, and in case you want to know more of how they work, they are all Not-based logic circuity similar to several logic systems that exist within electronic conquiters. they were designed by using that tables, karnaugh maps, and mapterms expansion. the numeric representation is bunary. from a social, political and emironmental perspective these computers are an application of computation without electricity and semiconductors, an attempt to reinvent digital systems away from officiency and productivity and a hopeful prototype to expose the inner workings of computers.



coloring computers

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