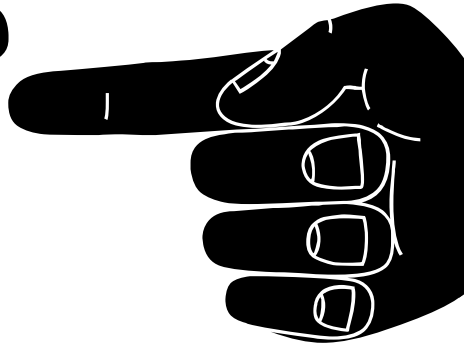




**binary
systems**

HANDY

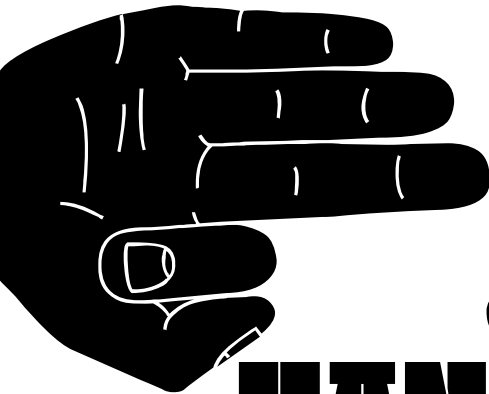


HANDBOOK

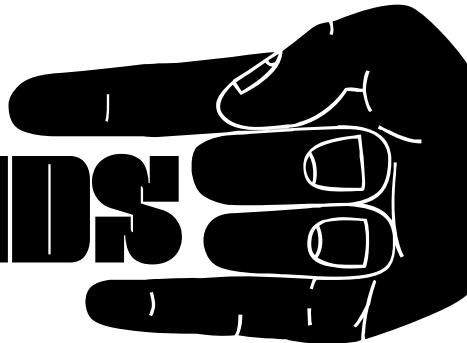
by Yasemin Çakır



OF



HANDS



**binary
systems** **HANDY**

HANDBOOK

OF

HANDS



Finger Binary Numbers

1, 2, 3... from an early age, we rely on the ability to count. Children learn to count with their fingers at an early age. This is nothing new, as the Latin word for fingers or toes “digitus” is the root of the English word digit. If you refer to your fingers, thumb or toes as digits, you are sure to appear smart at any cocktail party. A normal person, unless something unforeseen happens, has 5 digits on each hand. This limits the counting of the fingers to 10.



To count more, you either have to go to a genetic lab and grow an extra arm ... or change your counting system. By using binary numbers with the fingers of one or both hands, you will be able to count and display all numbers from 0 to 1023.

This system may sound complicated at first, but it is quite simple. Each finger of your hands represents a certain number, which you then have to add up.

For example, in the one-handed version, if all the fingers are raised, that means 31, since you count 16 for the little finger, +8 for the ring finger, +4 for the middle finger, +2 for the index finger, +1 for the thumb. The same is also valid for the two-handed system, where you count the fingers from left to right in the following way: $512+256+128+64+32+16+8+4+2+1$, while a fist means 0.





0 _____ right hand



1 _____



2 _____



4 _____



left hand 32 _____



64 _____





8 _____



16 _____



128 _____

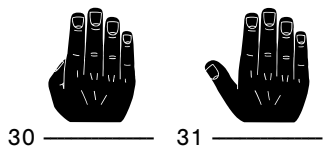
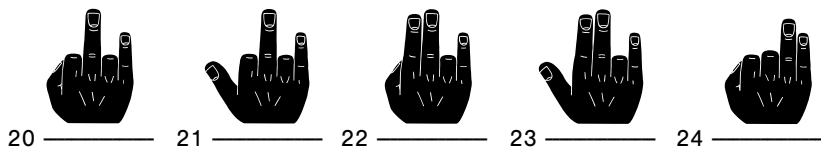
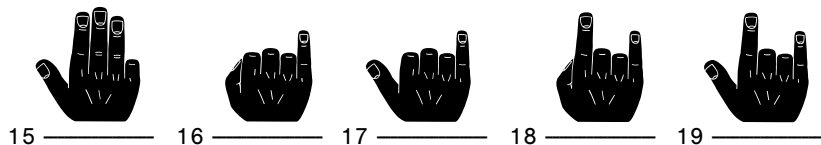
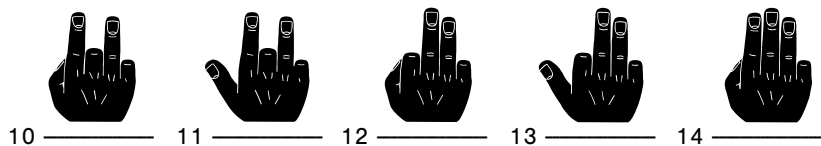


256 _____



512 _____







32 _____



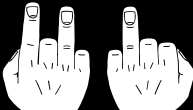
42 _____



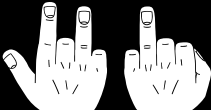
54 _____



69 _____



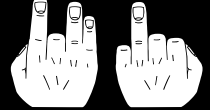
74 _____



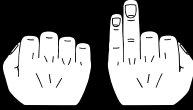
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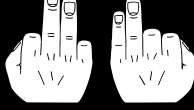
83 _____



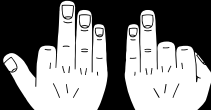
90 _____



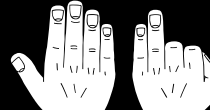
96 _____



108 _____



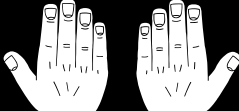
125 _____



127 _____



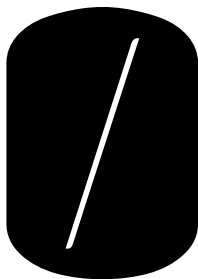
999 _____



1023 _____



fist thumb index middle ring pinky



fist thumb index middle ring pinky

1



1000

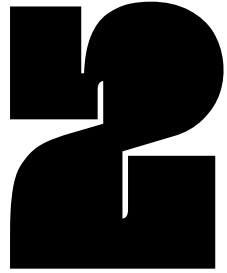
10

eight

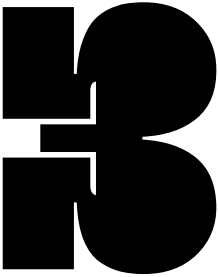
Handy handbook of hands



Finger binary numbers



first thumb index middle ring pinky



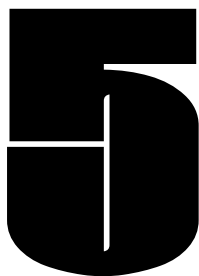
first thumb index middle ring pinky



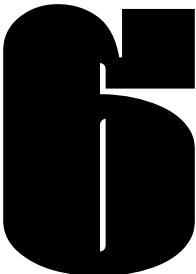
fist thumb index middle ring pinky



fist thumb index middle ring pinky



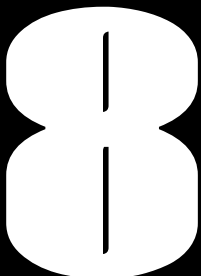
fist thumb index middle ring pinky



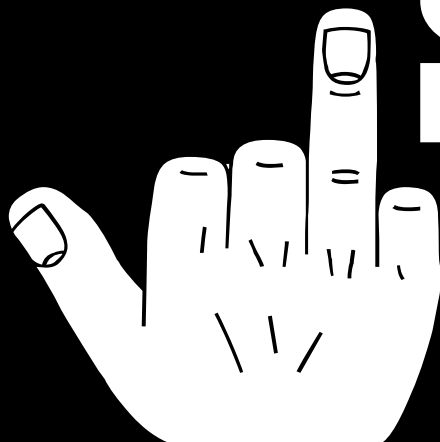
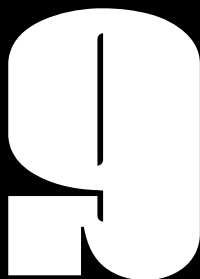
fist thumb index middle ring pinky

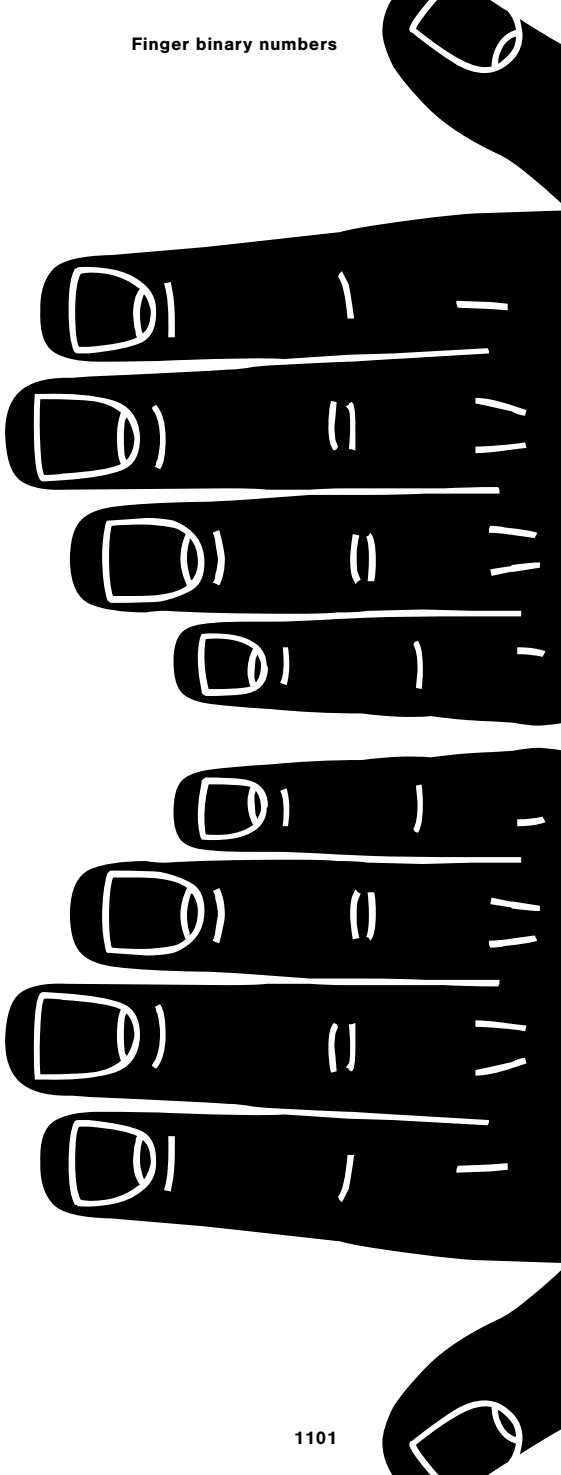


fist thumb index middle ring pinky



fist thumb index middle ring pinky





fist thumb index middle ring pinky



10



fist thumb index middle ring pinky

11

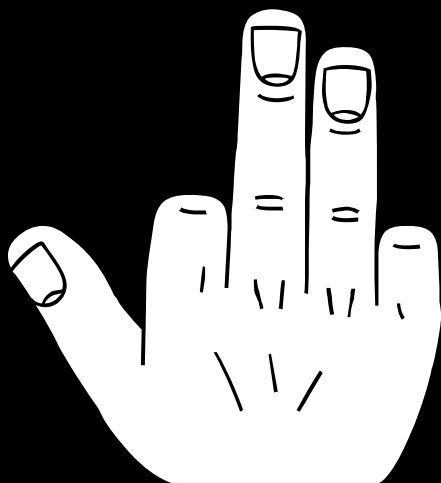


15



fist thumb index middle ring pinky

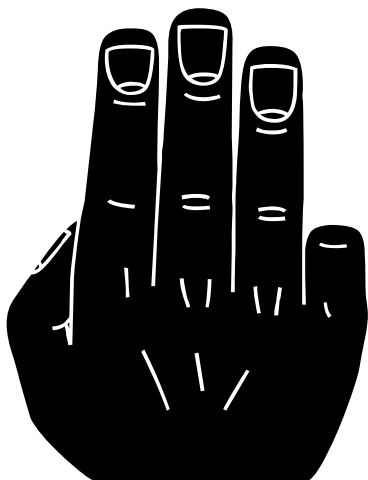
15



fist thumb index middle ring pinky



fist thumb index middle ring pinky

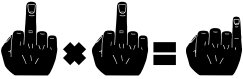


14

fist thumb index middle ring pinky

15





16



fist thumb index middle ring pinky



17

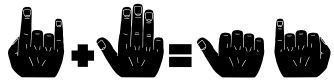
fist thumb index middle ring pinky



fist thumb index middle ring pinky

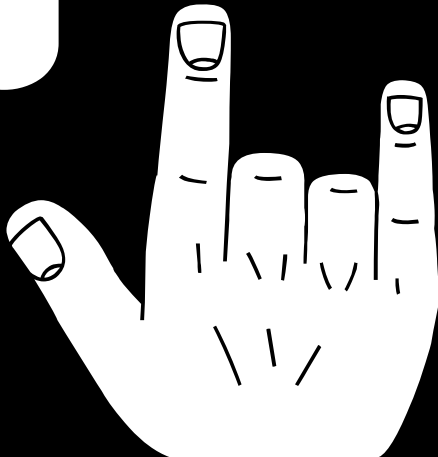


18



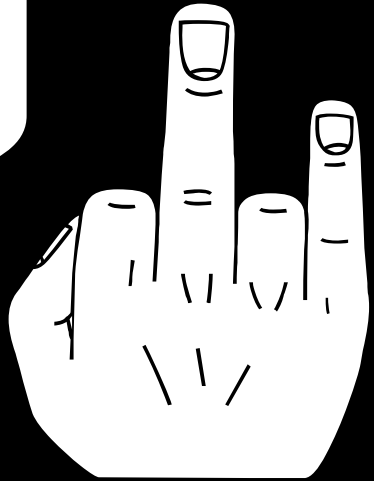
fist thumb index middle ring pinky

19





20



fist thumb index middle ring pinky

21

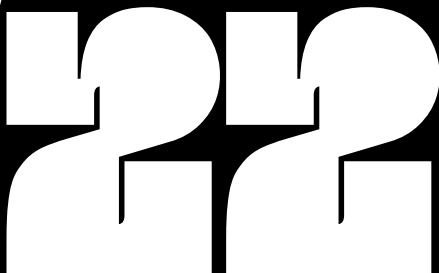
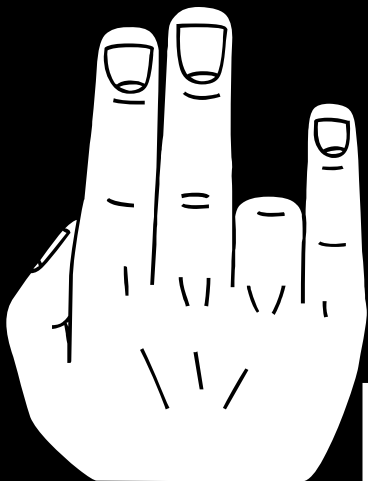


fist thumb index middle ring pinky

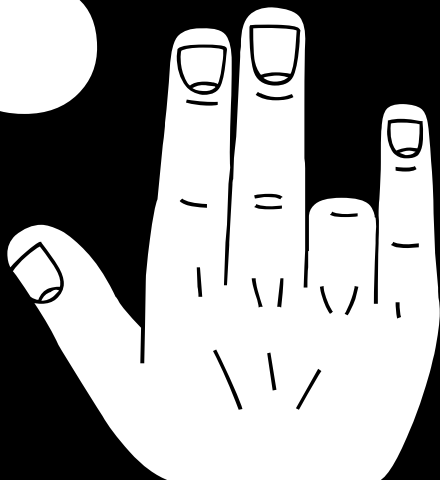




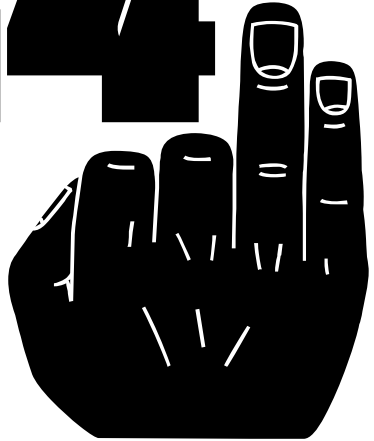
fist thumb index middle ring pinky



fist thumb index middle ring pinky

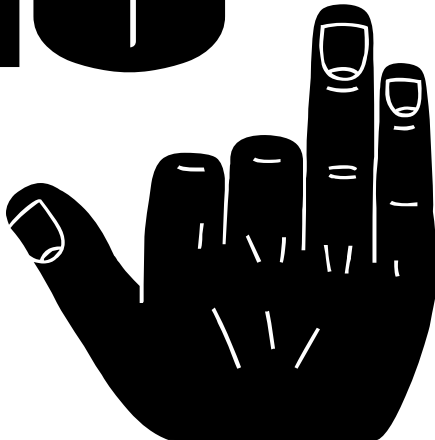


24



fist thumb index middle ring pinky

25



fist thumb index middle ring pinky

fist thumb index middle ring pinky

26



fist thumb index middle ring pinky

27





28

fist thumb index middle ring pinky



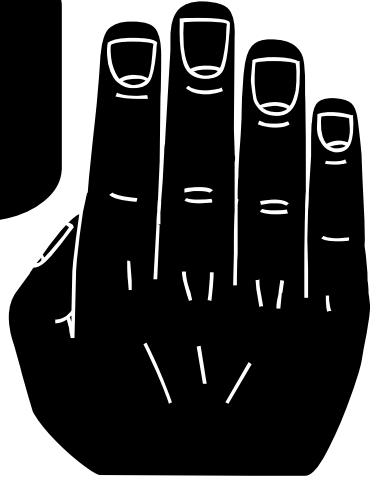
29

fist thumb index middle ring pinky



fist thumb index middle ring pinky

130

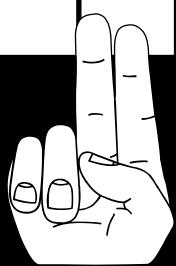
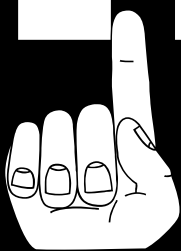


fist thumb index middle ring pinky

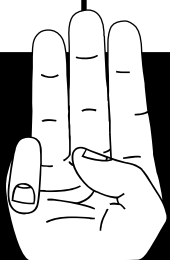
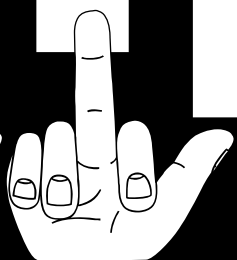
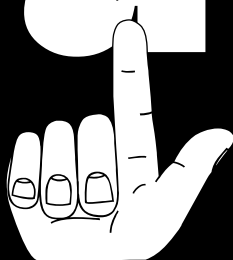
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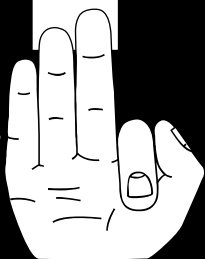
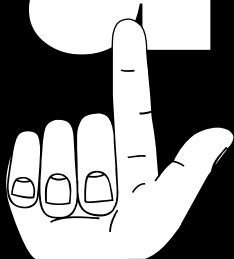
b i n



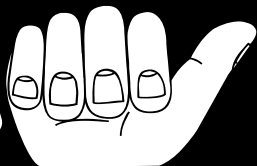
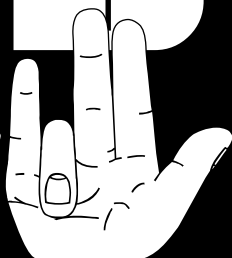
a l p h



arv

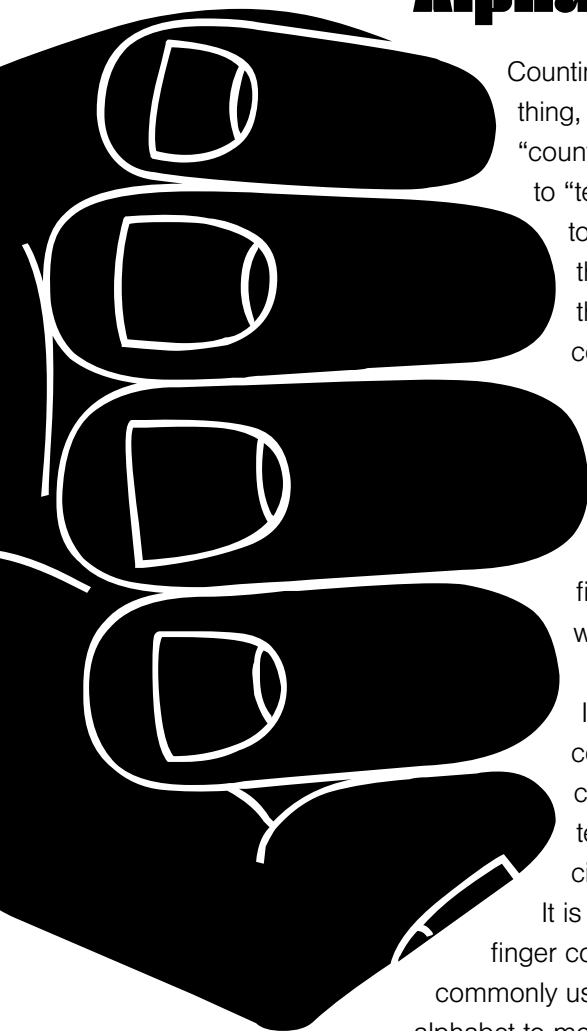


abet





Finger Binary Alphabet



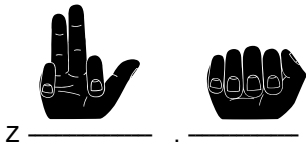
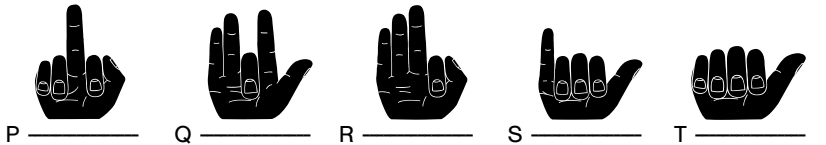
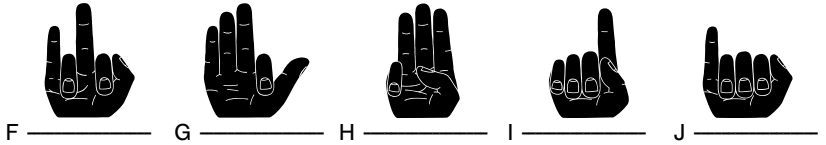
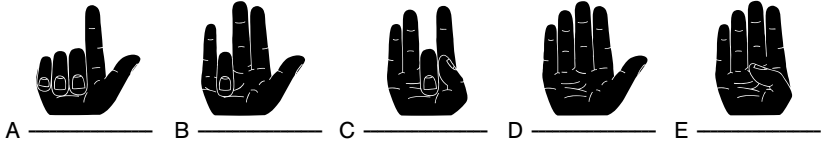
Counting in binary is one thing, but you can switch from “counting mode” of your fingers to “text mode”. All you have to do is turn your hand so that your palm is facing the person you want to communicate with.

This is the binary finger alphabet, and this technique allows you to communicate with your fingers, words and even whole sentences.

It is based on the binary code—similar to Morse code—and gives each letter of the alphabet a specific finger constellation.

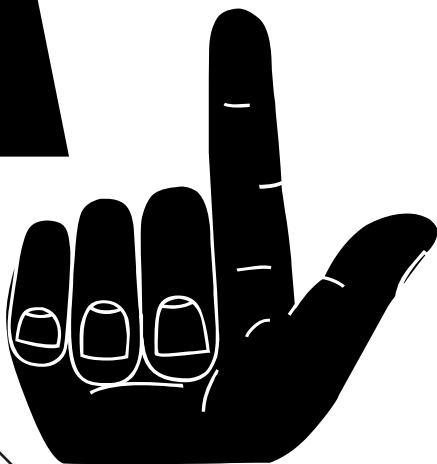
It is structured from simple finger constellations for the most commonly used letters of the British alphabet to more difficult constellations for rare letters.





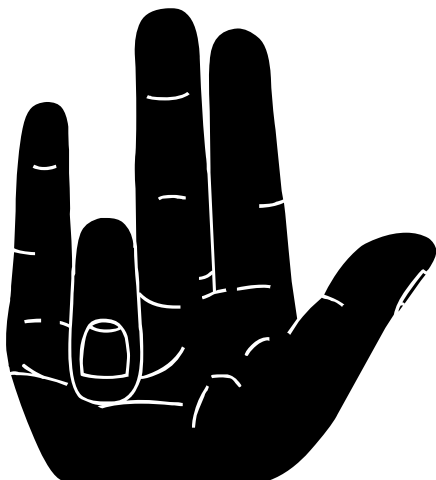


A



fist thumb index middle ring pinky

B

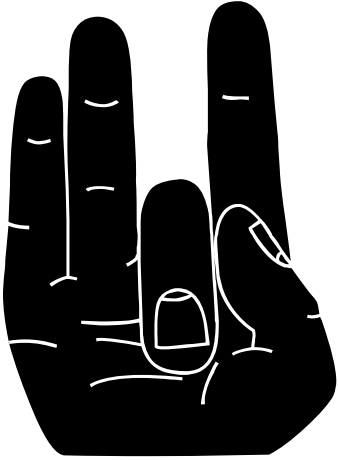
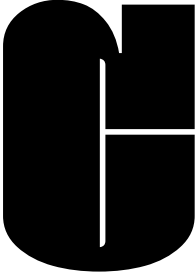
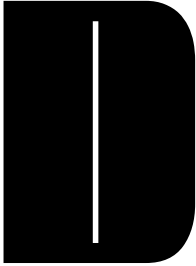


fist thumb index middle ring pinky





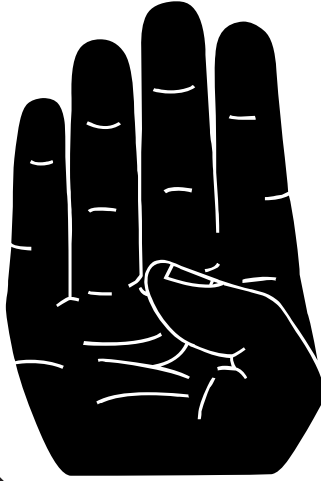
fist thumb index middle ring pinky



fist thumb index middle ring pinky



E



fist thumb index middle ring pinky

fist thumb index middle ring pinky

F



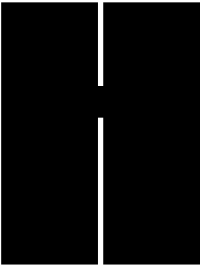
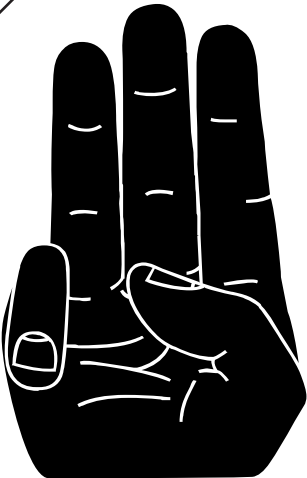
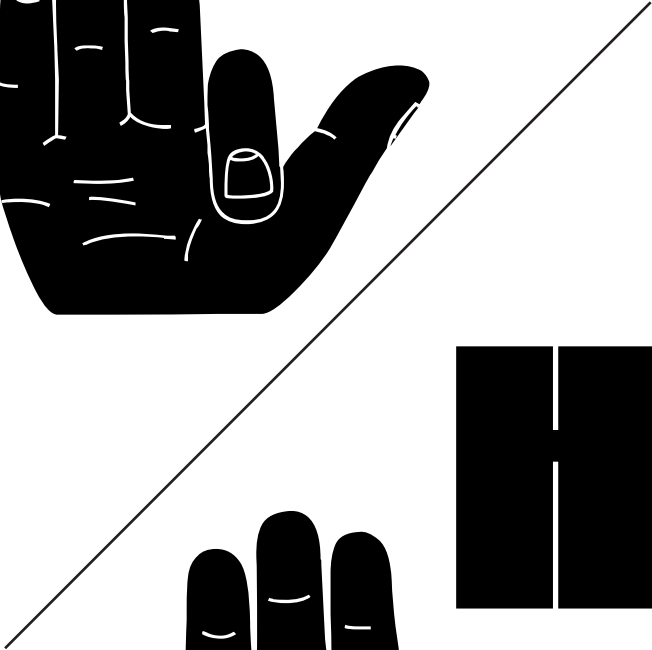
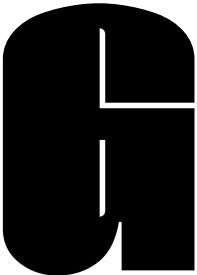
100010

36

thirty-four



fist thumb index middle ring pinky

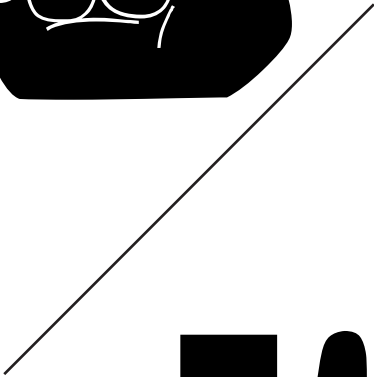
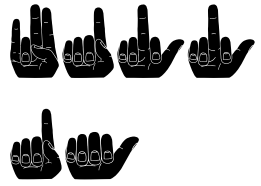
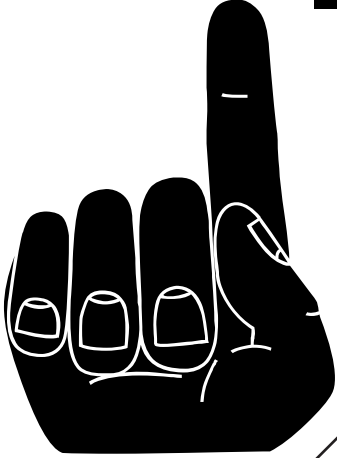


fist thumb index middle ring pinky



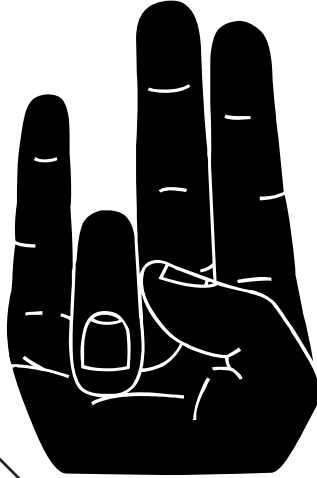
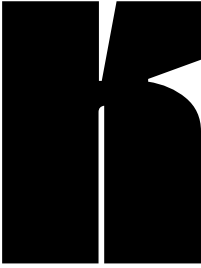


fist thumb index middle ring pinky



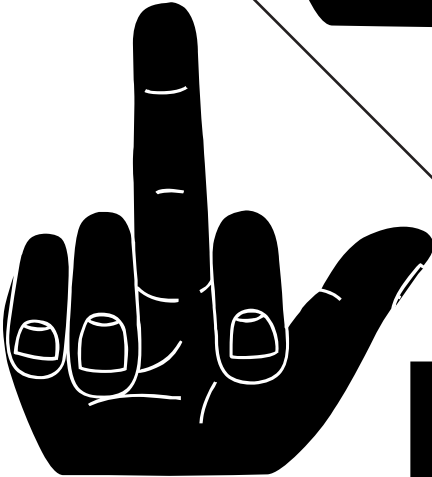
fist thumb index middle ring pinky



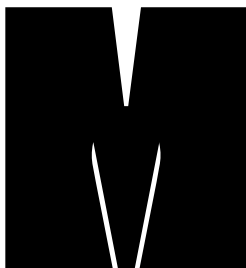


fist thumb index middle ring pinky

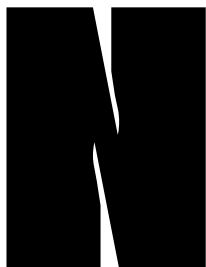
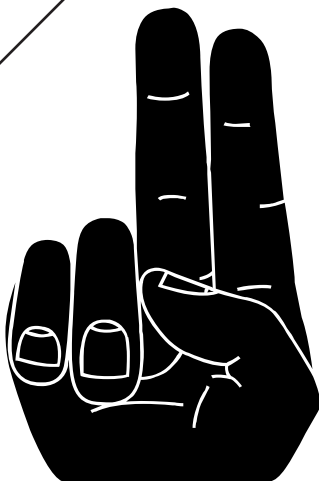
fist thumb index middle ring pinky



fist thumb index middle ring pinky



fist thumb index middle ring pinky



fist thumb index middle ring pinky

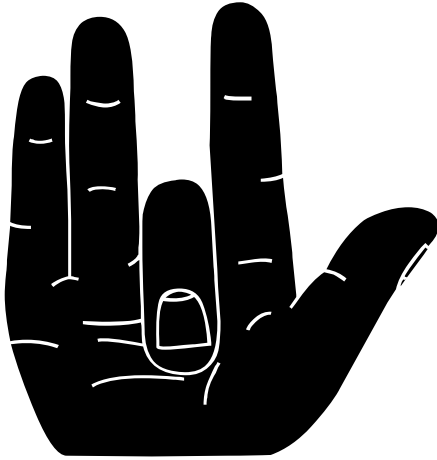
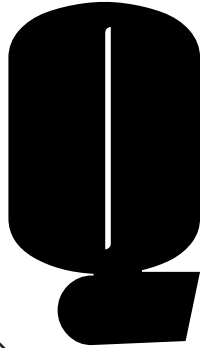


fist thumb index middle ring pinky

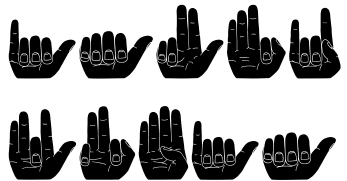


fist thumb index middle ring pinky

fist thumb index middle ring pinky



101000

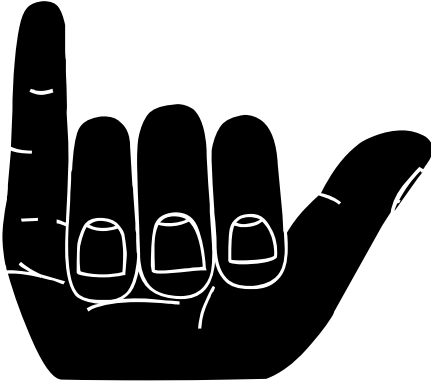


42

forty

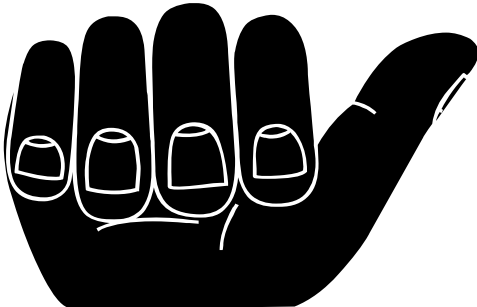


101001



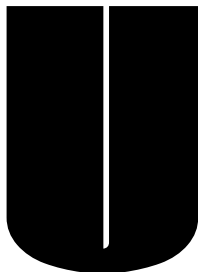
fist thumb index middle ring pinky

101001



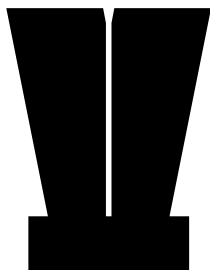
fist thumb index middle ring pinky





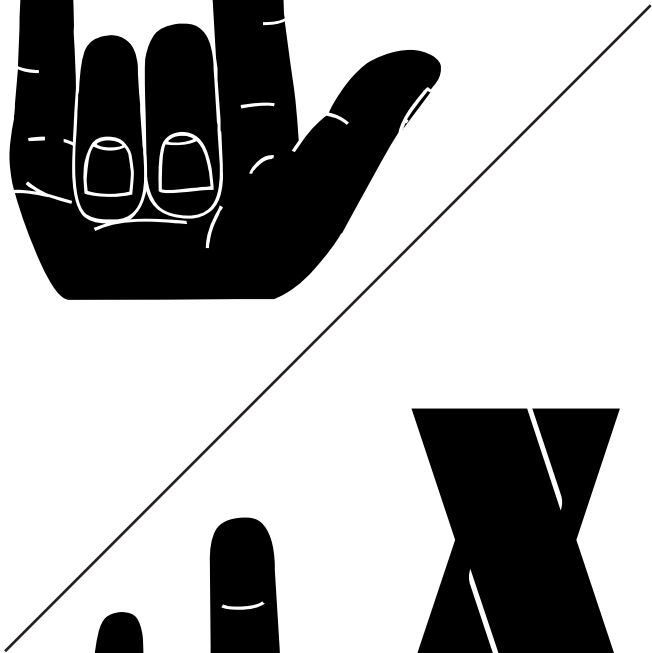
fist thumb index middle ring pinky

fist thumb index middle ring pinky

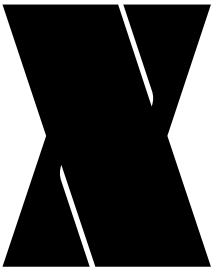




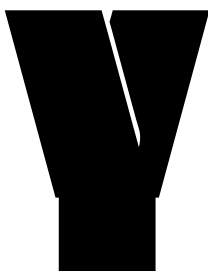
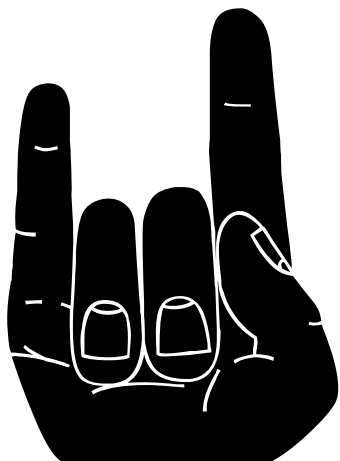
fist thumb index middle ring pinky



fist thumb index middle ring pinky

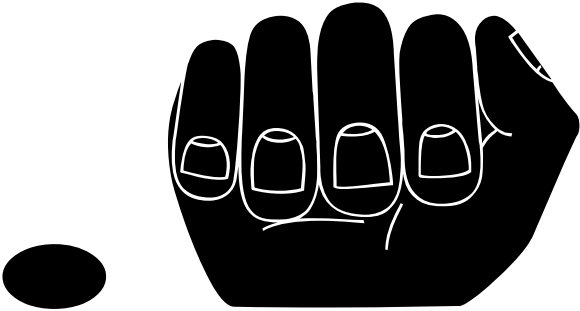


fist thumb index middle ring pinky



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fist thumb index middle ring pinky



1 https://en.wikipedia.org/wiki/Finger_binary

2 <https://en.wikipedia.org/wiki/Number>

3 [https://en.wikipedia.org/wiki/Numeral_\(linguistics\)](https://en.wikipedia.org/wiki/Numeral_(linguistics))

4 https://en.wikipedia.org/wiki/Binary_number

5 https://en.wikipedia.org/wiki/Telegraph_code

Finger binary is a system for counting and displaying binary numbers on the fingers of either or both hands. Each finger represents one binary digit or bit.¹

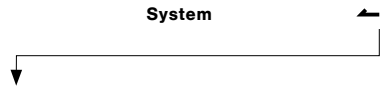


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▶ A number is a mathematical object used to count, measure, and label. The original examples are the natural numbers 1, 2, 3, 4, and so forth.²

48

forty-six



The Chappe system consisted of a large pivoted beam (the regulator) with an arm at each end (the indicators) which pivoted around the regulator on one extremity. The angles these components were allowed to take was limited to multiples of 45° to aid readability. ⁵

A binary number is a number expressed in the base-2 numeral system or binary numeral system, a method of mathematical expression which uses only two symbols: typically “0” (zero) and “1” (one). ⁴

In linguistics, a numeral (or number word) in the broadest sense is a word or phrase that describes a numerical quantity. ³





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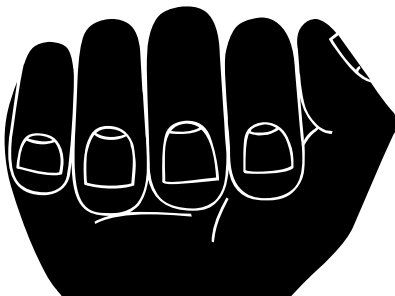
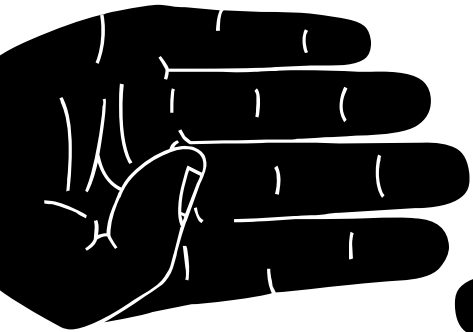
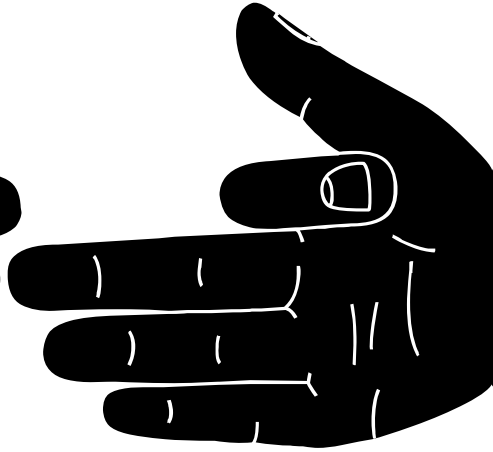
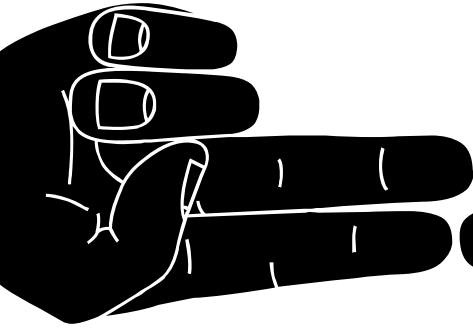
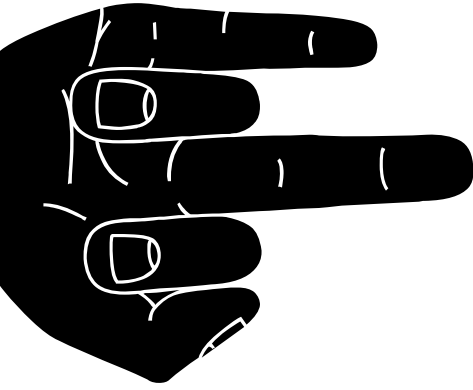
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