

Introdução à Tecnologia

PARTE 2: FUNCIONAMENTO



Algoritmos



"Algoritmos são conjuntos de passos finitos e organizados que, quando executados, resolvem um determinado problema."

José Augusto Manzano













Tear Mecânico

Criado por Joseph-Marie Jacquard, em 1802.

Primeira máquina programável através de cartões perfurados.

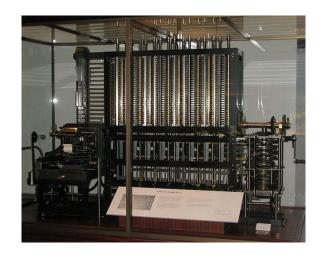


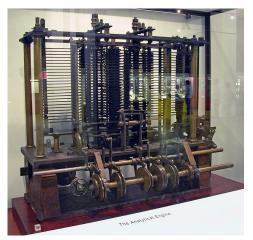


Cartão Perfurado

Usado para programar o Tear Mecânico.

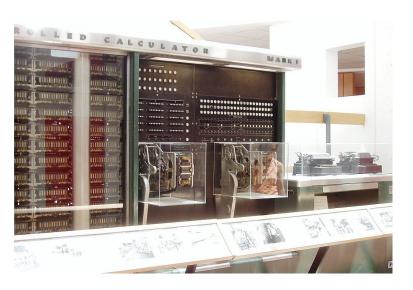






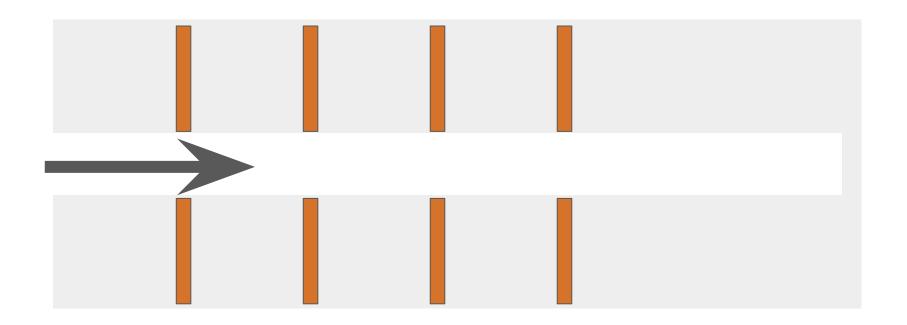




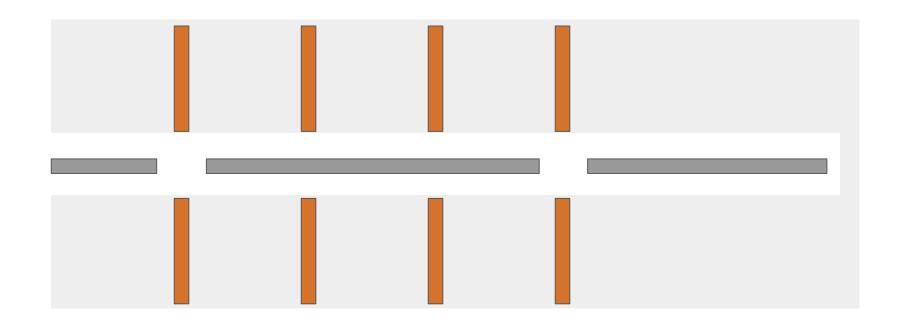




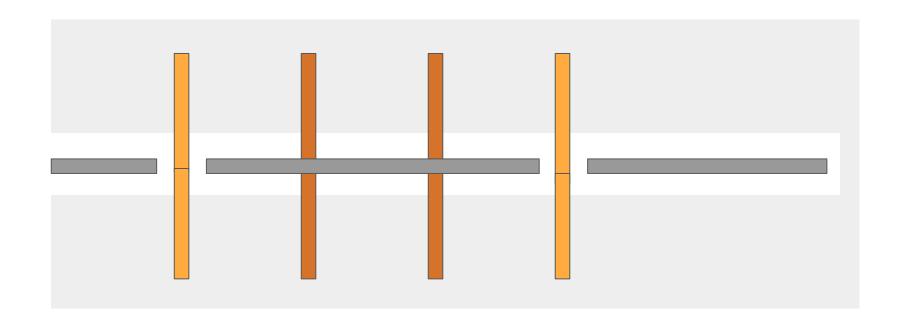




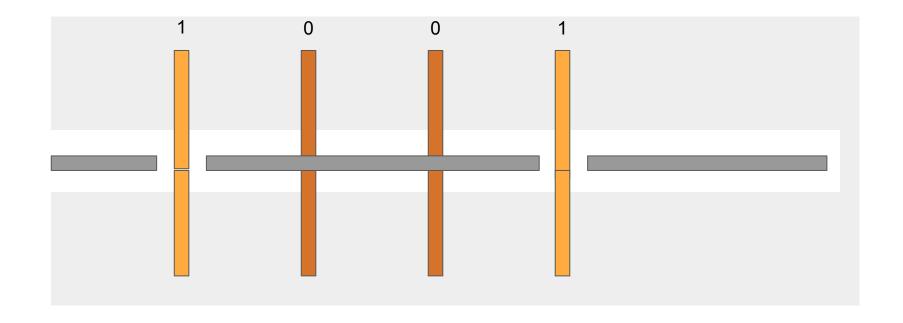




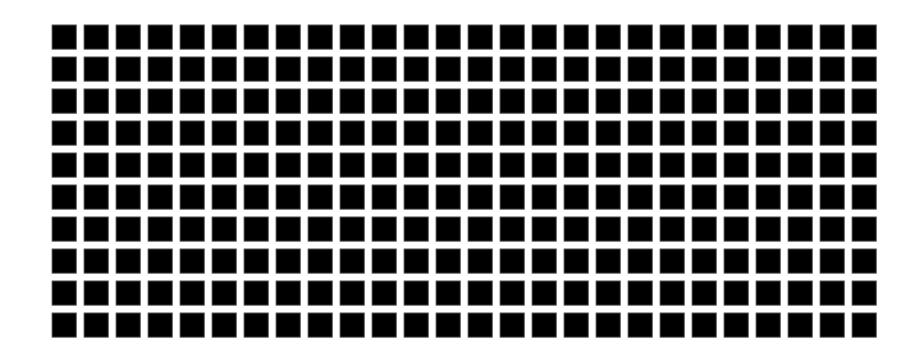




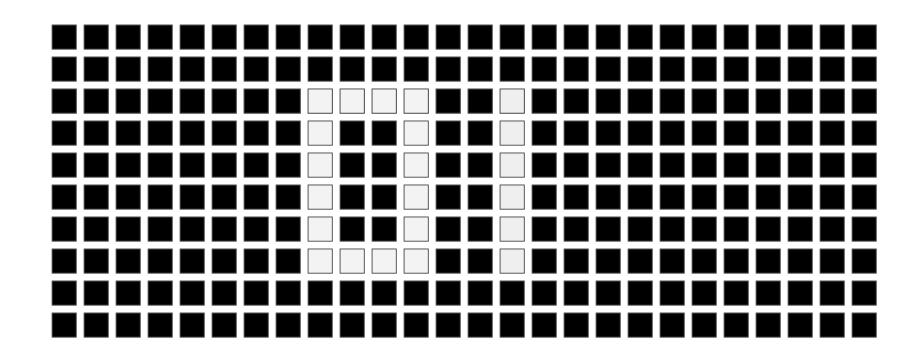




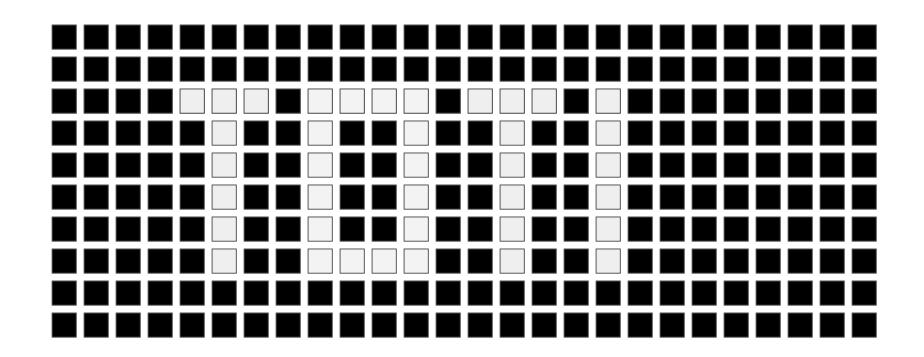




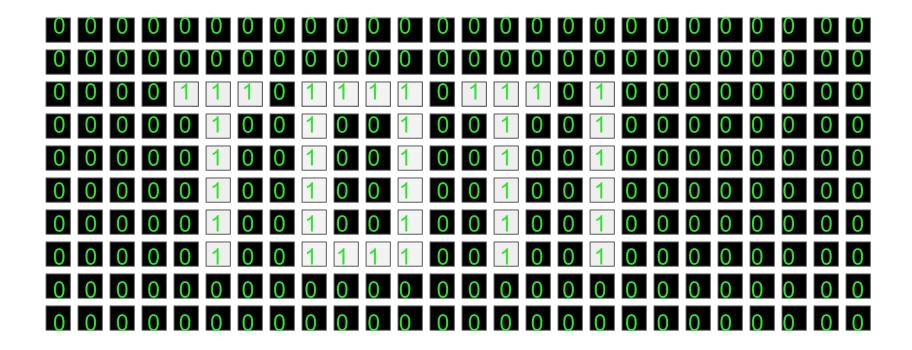




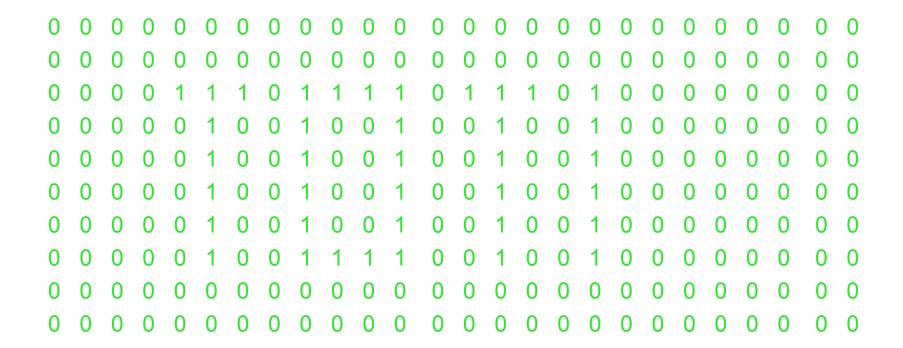




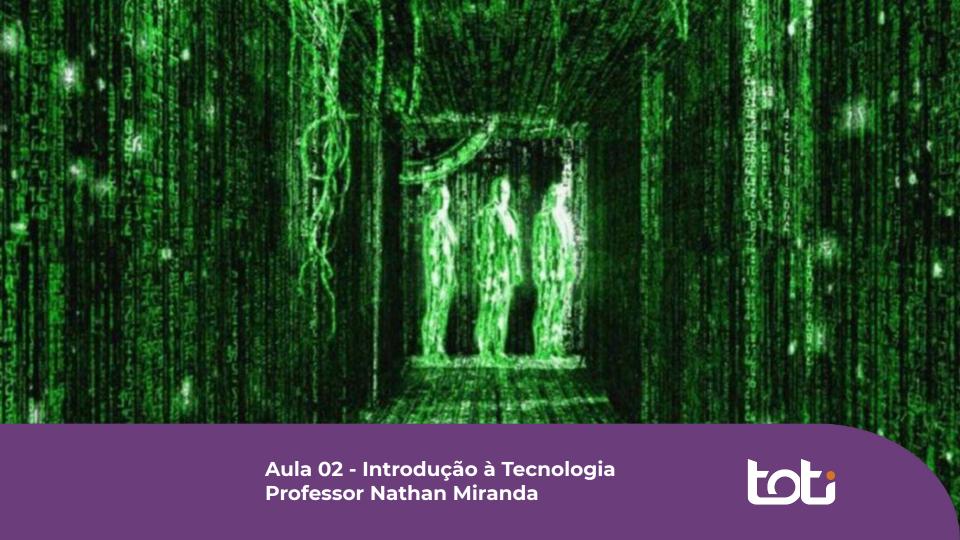


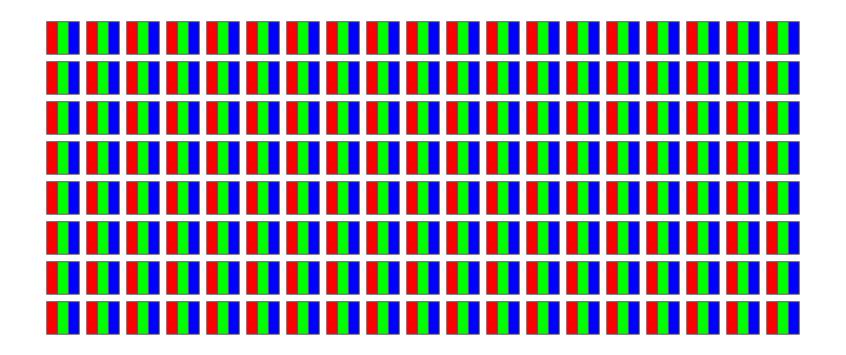




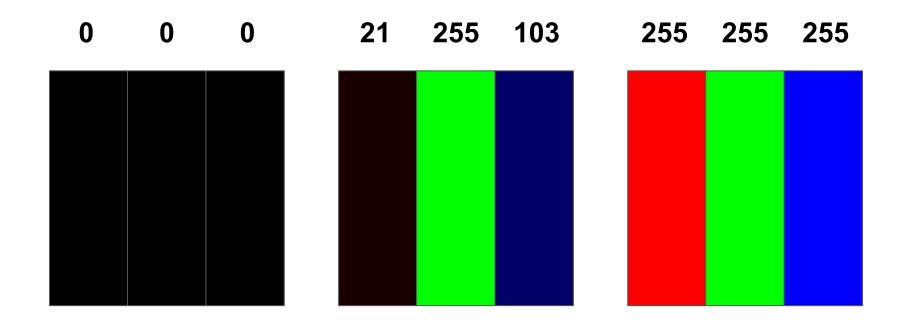








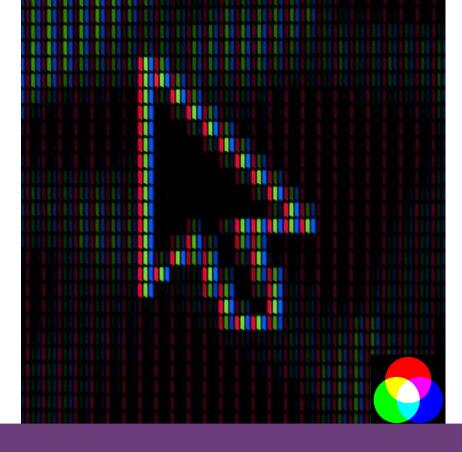






Total: 16777256 cores





Aula 02 - Introdução à Tecnologia Professor Nathan Miranda



255?

O que aconteceu com os 1s e 0s?



Sistema Decimal



Sistema Binário

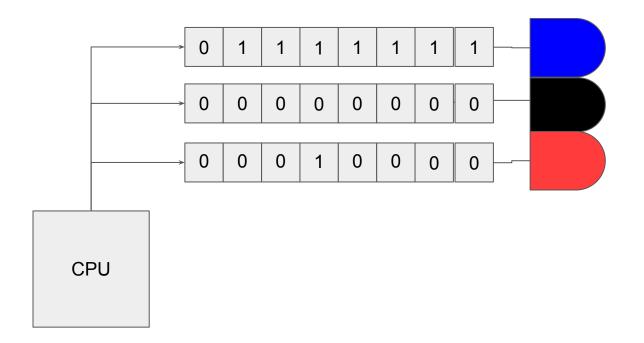
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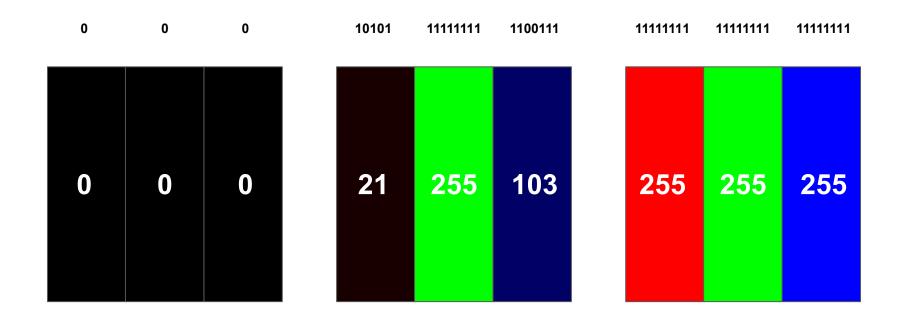
Sistema Decimal Sistema Binário

```
0 0
1 1
2 10
3 11
4 100
5 101
6 110
7 111
8 1000
9 1001
10 1010
11 1011
```











Linguagens de Programação



ASSEMBLY | LINGUAGEM DE BAIXO NÍVEL

11100001 SET A, "0001"

11110000 SET B, "0000"

10001111 MOV8

11011000 MOV ALU OUT D



JAVASCRIPT | LINGUAGEM DE ALTO NÍVEL

```
const person = {
    name: "João",
    idade: 32
}
```



