computer science Fundamentals

Hello!

I am Ziad hossam

I am here because I love to make presentations

About technology.

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Binary system

Let’s start with the first set of slides

There are 10 kinds of people in the world: those who understand binary numerals, and those who don’t

The Binary system

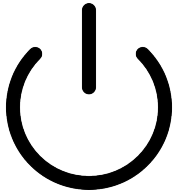
FAQ:

1-What is the **binary** system ?

A:**binary** system, positional numeral system employing 2 as the base and so requiring only two different symbols for its digits, 0 and 1, instead of the usual 10 different symbols needed in the decimal system.

2-How does in works

A:let’s find out



Break Concept

Did you know that this symbol contain the 0 and 1 in binary that present on and off

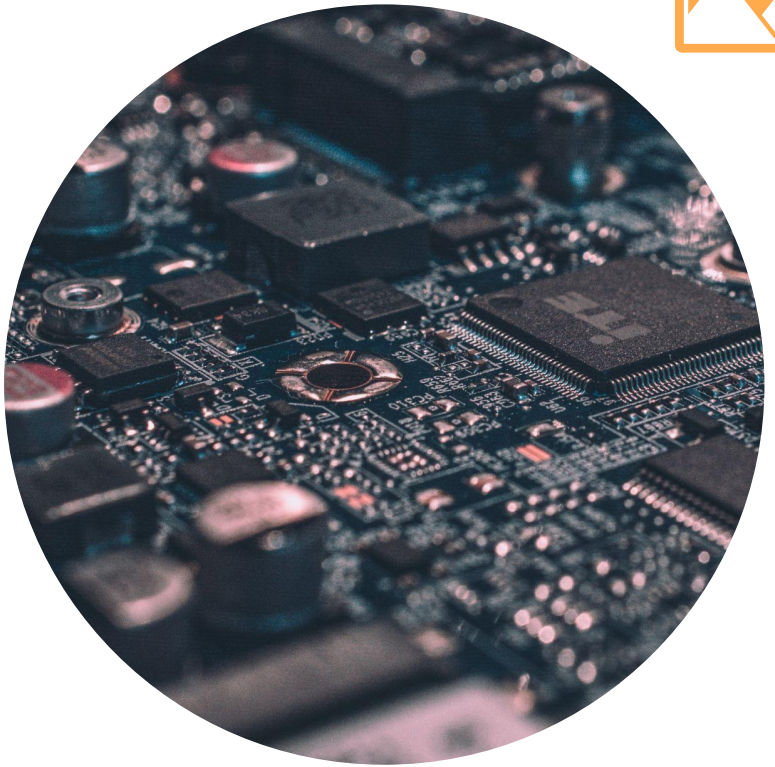
The Binary numbers

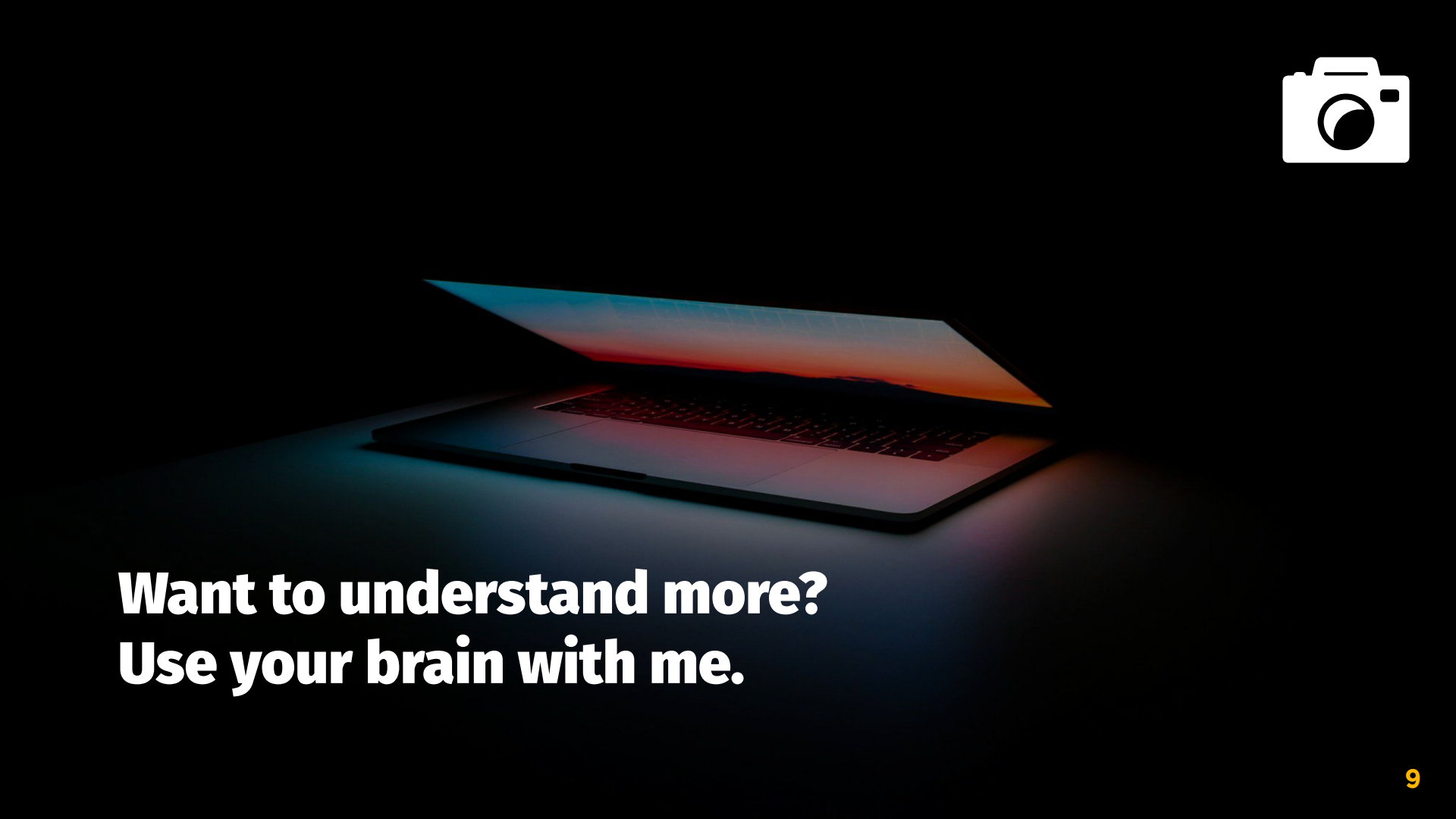
Slot Num	Solt 1	Solt 2	Solt 3	Solt 4	Solt 5	Solt 6	Solt 7	Solt 8	Solt 9
Value	0	1	2	4	8	16	32	64	128
Binary Num	0	1	1	1	0	0	0	0	0

Zero means off 1 means on

A picture is worth a thousand words

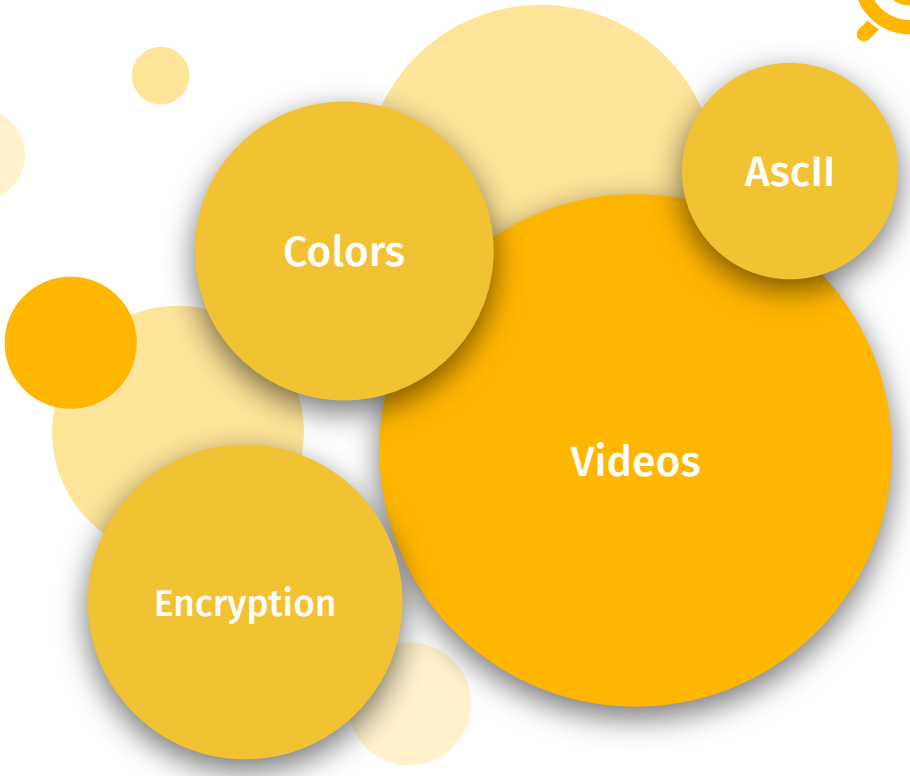
I think you started to feel the magic of this machine





Want to understand more?
Use your brain with me.

More Topics explain computer science



What is Encryption

- Encryption is the process of encoding messages or information in such a way that only authorized parties can read it
- A process that converts original information, also called plain text into a difficult-to-interpret form called ciphertext
- Encryption does not of itself prevent interception, but denies the message content to the interceptor
- Done by using an encryption algorithm, a formula used to turn plain text into ciphertext

Types of Encryption

- Symmetric key Encryption
- Asymmetric key Encryption

Symmetric keys

➔ **Encryption and decryption use the same key**

Asymmetric keys

➔ **Encryption and decryption use different keys a public key and a private key**

Thanks!

Any questions?

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