



Data

From Zero to Hero

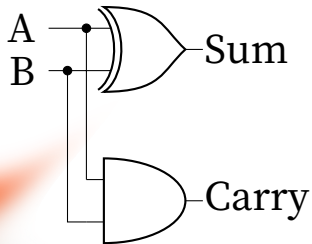
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Session 1



Computers



173

0b10101101 ?

0x2a

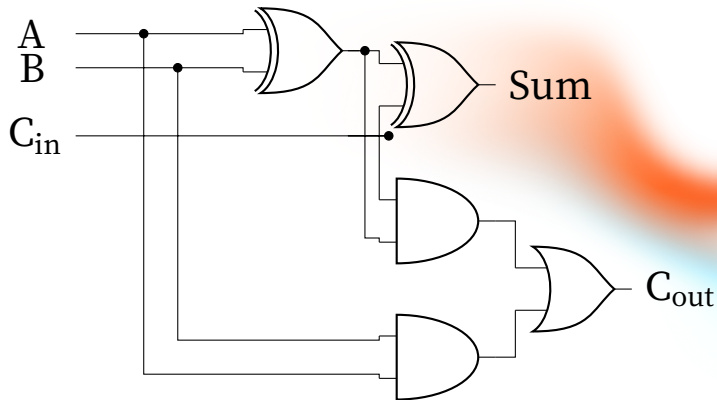
Keywords

Computer · Logic Gates · Binary · Hexadecimal · Half-adder

Corti



COMPUTERS!



```
ADD r0, r1, r2
    0x8a
    0x09
    0x0a
    0x0b
```

Keywords

Full-Adder · Assembly

Corti



Programming

▶ Types

- 42
- False
- 0.1
- "ABC"
- {
 "A": 0.1,
 1: "A"
}

▶ Statements

- import
- for ... in
- while
- break
- if/else
- and/or
- def
- class

▶ Blocks

```
done = False  
x = 0  
while not done:  
    x += 1  
    if x >= 10:  
        break  
print(x)
```

Keywords

Python

Corti



Let's do it!

- ▶ Terminal: something you write commands in.
- ▶ `ls/dir, cd [DIRECTORY]`
- ▶ Try these
 - `python --help`
 - `python -c '[MY PROGRAM...]'`
 - `python my-demo.py`
 - `python -menv env`
- ▶ Read the output!!

Keywords

Command line · man · plain text

Corti



LET'S DO IT!

- ▶ You created an environment in the previous step. Activate it!
- ▶ `pip install numpy scipy scikit-learn matplotlib seaborn`
- ▶ We're going to work with the **wine recognition dataset**
- ▶ Hands-on

Keywords

Virtual Environment · Tabular Data · csv · Scikit-learn · Pandas · NumPy



The End

For a recap, see `session_1/script.py` in the github repository.