

Getting to know Python

Adam Kit Intro to Programming: Week 2

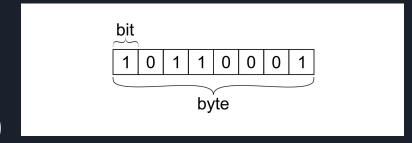


Agenda

- Binary -> Assembler -> High Level languages
- Logic
- Libraries and Data Types
- 5 Steps of Programming Today



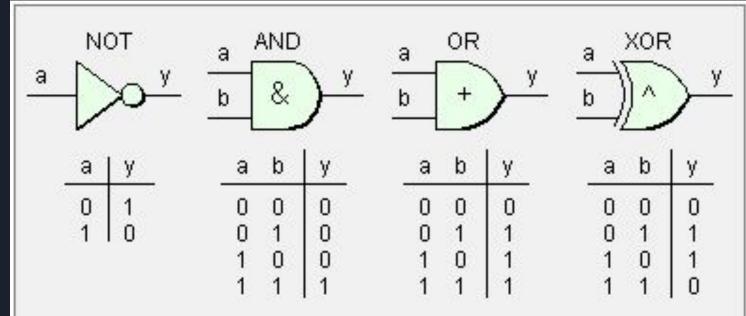
Timeline of Programming (20th Century)



- Binary (Computer Read)
- Assmebler (routines = functions to alter bits)
- High Level Languages (Python)
 - Natural language abstraction of the 1 or 0s



Logic (if statements) (logic.py)



- AND
- OR
- NOT

XOR (exclusive or)



Interacting with the outside world

- Pandas (library/<u>documentation</u> interlude)
- Data types (built in)

Write down the type of data for the following data and whether or not they are mutable.

a) 1.54 b) 10 c) [1,2,3,4] d) (1, 2, 3)



Steps of Programming Today (Oriely)

- Interacting with the outside world (File Formats)
- Preparation (Cleaning/Normalizing data)
- Transformation (Statistical Analysis on Set)
- Modeling and Computation (Connecting data to models)
- Presentation (Graphical output/written summary)