CS 115 Lecture 4

More Python; testing software

Neil Moore

Department of Computer Science
University of Kentucky
Lexington, Kentucky 40506
neil@cs.uky.edu

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Syntax: Statements

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Semantics: Data types

Inside the computer, everything is just bits. A **data type** says how to interpret those bits, and what we can do with them.
Every expression in Python has a type. Some of the built-in types:

Type	Description	Examples
`int`	integer numbers	`2`, `-44`
`float`	floating-point numbers	`3.0`, `-0.9`, `6.022e23`
`bool`	Boolean (true-false) values	`True`, `False`
`str`	strings of characters	`'hello'`, `"0"`
`list`	lists of values	`[ "Valjean", 24601 ]`, `[ 2, 3, 5, 7 ]`

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- In some languages these are called "doubles"

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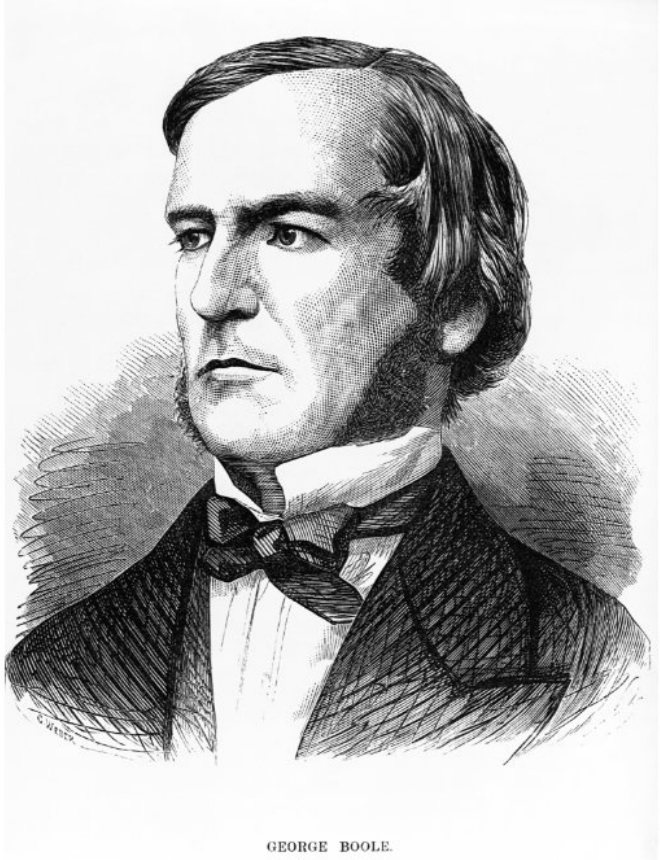
Type b

- N



George Boole, English computer scientist.

Image: Computer History Museum

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