



# OMIS 30: Intro to Programming (with Python)

Week 2, Class 1

Introduction to Programming  
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# Primitive (Atomic) Variables in Python

- Integer (int)
- Float
- String (str)
- Boolean (bool)



# Integer

Positive or negative whole numbers with no decimal point

**Examples: -1001, 0, 6**

Python does not have a 'limit' on how small or large the number can be (min/max is only limited by the memory size of your machine)



# Float

- Represent real numbers and are written with a decimal point dividing the integer and fractional parts.
- Floats may also be in scientific notation

**Examples: -2.5, 3.1415, 7.67, 1e6**



# Bool (boolean type)

## True or False

- **Equivalent to [1,0] (respectively):**
- **False == 0**
  - #evaluates to True; they are logically equal
- **True == 1**
  - # also evaluates to True; they are also logically equal
- **Can also add: 2 + True = 3**