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Types and Values

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PROGRAMMING/Types and values

Values and types

- A value is one of the basic things a program works with, like a letter or a number
- Types:
  - Integer
  - String
  - Complex
  - Boolean
- Integer
  - integers belong to the type int
    - >>> type(17)
    - <type 'int'>

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- String
  - strings belong to the type str
    - >>> type('Hello, World!')
    - <type 'str'>
  - The number between quotation marks like strings
    - >>> type('17')
    - <type 'str'>
    - >>> type('3.2')
    - <type 'str'>

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- Complex
  - Combination of real and imaginary part
- Ex: a+bi
    - >>> z=1+2j
    - >>> type(z)
    - <type 'complex'>
    - >>> x=complex(x,y)
    - <type 'x'>
    - <type 'complex'>

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- Boolean
  - Simplest built-in type in python
  - 2 Boolean values
    - True
    - False
    - Example
      - >>> x=True
      - >>> type(x)
      - <class 'bool'>
      - >>> x=False
      - >>> type(x)
      - <class 'bool'>

Thank You