

Pykidz

A “Kideveloper” initiative

Last Pykidz class

- ◆ Programming is an essential skill
- ◆ Python is your simple yet powerful friend
- ◆ You can install python in your computer
- ◆ Python has versions
- ◆ Python shell is a window to talk to python
- ◆ Python can do calculations using “operators”
- ◆ Python “variables” make it easy to re use data and also make the data readable

Datatatypes - The type of data

Basic Data types

- ◆ Numeric
 - ◆ integer, float, complex
- ◆ Strings
- ◆ Boolean

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Break!

Really! Please take a break for 5 minutes before continuing.

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Strings

A 'string' of characters or a 'sequence' of characters

Break!

As before take a break of 5 minutes. You earned it!

String Operations

Concatenation - Calling methods - Repetition - Interpolation

Basic Data types

- ◆ Numeric
 - ◆ integer, float, complex
- ◆ Strings
- ◆ Booleans

Booleans - Truthy & Falsy

Mixing it up

Mixing it up

Mixing it up
Strongly Typed!

Mixing it up
Casting

Other Data types

- ◆ Composite data types
- ◆ Custom types

Let us stop here!

Summary

- ◆ Data types - defines the type of data and what operations you can do
 - ◆ Numerics - ints, floats
 - ◆ Strings - defining literals, operating them, 'interpolating' them
 - ◆ Booleans - the "truthy" and the "falsy"
- ◆ Strong typing - you cannot mix them up.
- ◆ Casting - move from one type to another.

“built-in” functions - Running list

- ◆ print
- ◆ str
- ◆ type
- ◆ float
- ◆ format
- ◆ bool
- ◆ int