

Pykidz

A “Kideveloper” initiative

Last session

- ◆ Data types
- ◆ Numerics
- ◆ Strings
- ◆ Booleans
- ◆ Strong typing and casting

I do, I learn!

Menu

- ◆ Getting User Input - Session 1
 - ◆ Function arguments
 - ◆ Function composition
- ◆ REPL vs Python File - Session 2
 - ◆ Comments
- ◆ Using Code from Others - Session 3
- ◆ Our Programs - Session 4
 - ◆ A simple interest calculator
 - ◆ A greeter

Getting user input

Function arguments

`f("argument1", "argument2")`


```
input("Your name please: ")
```


Function composition

```
f(g(h("argument")))  
print(int(input("Num please: ")))
```


Menu

- ◆ Getting User Input - Session 1
 - ◆ Function arguments
 - ◆ Function composition
- ◆ REPL vs Python File - Session 2
 - ◆ Comments
- ◆ Using Code from Others - Session 3
- ◆ Our Programs - Session 4
 - ◆ A simple interest calculator
 - ◆ A greeter

Is REPL enough?

- ◆ READ (R)
- ◆ EVALUATE & EXECUTE (E)
- ◆ PRINT (P)
- ◆ LOOP (L)

I Integrated D evelopment E nvironment

- ◆ Syntax highlighting
- ◆ Context sensitive help
- ◆ Code completion
- ◆ Debugging

VSCodium to write
Terminal to execute

Comments - friend but no bfff!

Menu

- ◆ Getting User Input - Session 1
 - ◆ Function arguments
 - ◆ Function composition
- ◆ REPL vs Python File - Session 2
 - ◆ Comments
- ◆ Using Code from Others - Session 3
- ◆ Our Programs - Session 4
 - ◆ A simple interest calculator
 - ◆ A greeter

Python module

A `.py` file is a module!

Python packages

Directories with something special!?

Python `standard library`

`math` module - `sqrt` and `pi`

import - get code for free!

Menu

- ◆ Getting User Input - Session 1
 - ◆ Function arguments
 - ◆ Function composition
- ◆ REPL vs Python File - Session 2
 - ◆ Comments
- ◆ Using Code from Others - Session 3
- ◆ Our Programs - Session 4
 - ◆ A simple interest calculator
 - ◆ A greeter

built-in functions - running list

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