













What we've covered so far...

- Data objects
 - o integers, float, string, boolean
- Collections of data objects
 - Lists and dictionaries
- Flow-of-control
 - o if-elif-else
- Loops / Iteration
 - For-loops
- Functions

What we still need to cover...

- Loops / Iteration
 - List-comprehension
- Variable Scope
- Common python functions

- Objects and Methods
- Common python libraries
- String Manipulation
- File input / output

Vext time

Variable Scope

- "Scope" → where a variable can be used in the code
- "Global" variables → can be used anywhere
- "Local" variables → can only be used within function where its defined

Overall workspace $x = 1 \leftarrow \text{global variable}$ $myfunction() \longrightarrow def \ myfunction() :$ $y = 2 \leftarrow \text{local variable}$ $print(x) \leftarrow \text{okay, } x \text{ has global scope}$ $print(y) \leftarrow \text{okay, } y \text{ used within function where it is defined (i.e., its scope)}$ $print(y) \leftarrow \text{nope! this is outside of the scope of myfunction() where } y \text{ lives}$