

CS 105 Lab 6: Intro to Python II

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Strings in Python

- We can “slice” strings
 - Essentially grabbing a specified slice of a string
 - `x = “I like bats man”`
 - `print(x[0:1], x[-2:-1]+x[-3:-2], x[7:10]+x[12:15])`
 - “I am batman”

Strings in Python

- Can use the upper function to yell at people
 - `x = "Isn't this nice"`
 - `print(x.upper())`
 - `"ISN'T THIS NICE"`
 - Also good when you want to perform case insensitive operations

Strings in Python

- Can use the replace function to confuse people
 - `x = "That car is neat"`
 - `y = x.replace("car", "purple")`
 - "That purple is neat"
- Also good for removing non-alphabetic characters

String in Python

- Curious if one string is in another string?
 - `x = "Abby, Bill, Carol, Dave, Emily, Frank"`
 - `"Billy" in x`
 - `False`

Python Strings

- Use the split function if you like pieces of sentences
 - `x = "Like a banana"`
 - `y = x.split()`
 - `['Like', 'a', 'banana']`
 - `y = x.splt("a")`
 - `['Like ', ' b', 'n', 'n', '']`

String in Python

- Sick of having words in lists?
 - Use the join() function
 - `x = ['Join', 'me', 'plz']`
 - `"".join(x)`
 - “Joinmeplz”
 - `" | ".join(x)`
 - “Join | me | plz”

If Statements

- if <expression that evals to T or F> :
do stuff
elif <expression that evals to T or F> :
do other stuff
else:
do completely different stuff
- These return True or False: > , < , == , in

This Lab

- Questions?
- Please WebSubmit `vert.py` and `max.py`
- Have a great break!