



Intro To Python

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Outlines of the Day

- Creating Strings
- Operations on Strings
- Creating a Multiline String
- Getting Info From Keyboard



Creating Strings

- In Python, text is represented as a string, which is a sequence of characters (letters, digits, and symbols).
- The type whose values are sequences of characters is str.
- Creates between quotation marks (double or single)

"Science Fiction" # String

'Informatics' # Also a string

- The opening and closing quotes must match. Starting with double end with single you will get an error.
- Strings can contain any number of characters, limited only by computer memory.
- The shortest string is the empty string, containing no characters at all:

""

""



String Operations

- Python has a built-in function, *len* that returns the number of characters between the opening and closing quotes

```
>>>len('Albert Einstein')  
15
```

- We can add two strings using the + operator:

```
>>> 'Albert' + ' Einstein'  
'Albert Einstein'
```

- In addition to +, len, int, and float, operator * can be applied to strings.

```
>>>'AT' * 5  
'ATATATATAT'
```

- Hands-on activity: 7



Multi-line Strings

- If you create a string using single or double quotes, the whole string must fit onto a single line.
- To span multiple lines, put three single quotes or three double quotes around the string instead of one of each.

```
>>>'''one...
... two...
... three'''
'one\ntwo\nthree'
```

- Notice that the string Python creates contains a `\n` sequence everywhere our input started a new line.
 - If you would like to see what are the special characters in Python:
http://www.tutorialspoint.com/python/python_strings.htm



Get from Keyboard

- Another built-in function that you will find useful is `raw_input()`, which reads a single line of text from the keyboard.
- It returns whatever the user enters as a string, even if it looks like a number:

```
>>>species = raw_input()
```

```
Homo sapiens
```

```
>>>species
```

```
'Homo sapiens'
```

```
>>> population = raw_input()
```

```
6973738433
```

```
>>> population
```

```
'6973738433'
```

```
>>> type(population)
```

```
<class 'str'>
```



Cont'd

- To get int input from keyboard we have a little trick:

```
>>> number = int(raw_input())
```

```
12345
```

```
>>> number
```

```
12345
```

- Finally, `raw_input` can be given a string argument, which is used to prompt the user for input (notice the space at the end of our prompt):

```
>>> species = input("Please enter a species: ")
```

```
Please enter a species: Python curtus
```

```
>>> print species
```

```
Python curtus
```

Q&A Time





To Do

- There will be no assignment for today
- Tomorrow we will have first exercise day.