



Primitive Data Types

```
int = 5
str = "this is a string"
float = 5.2
boolean = true || false
list = [0,1,2,3]
None = same as undefined
```

Comments

```
# hashtags denote single-line comments

"""
triple quotes
will help you
create
multi-line
comments
"""
```

Loops

```
For:
>>> for [item] in [list]:
...     print([item])

While:
>>> while [bool expr]:
...     [do some work here]
```

Stuff About Strings

String Character Access

```
someString = "random value"
#someString.[2] will return 'n'
```

String Methods

```
find(str) - returns index of [str] in string
upper() - converts all characters to uppercase
lower() - converts all characters to lowercas
replace(str, newStr) - replaces [str] with [newStr] in string
count(str) - returns number of [str] occurences in string
```



File I/O

```
readFile = 'readFile.txt'
writeFile = 'writeFile.txt'

# 'with' allows for auto-closing
with open(readFile, 'r') as rp:
    with open(writeFile, 'w+') as wp:

# read in file contents
contents = rp.read()

# write to file
output = "This is new text"
wp.write(output)
```

Functions

Required Arg

```
>>> def ask_ok(prompt):
...     # this is the function body
...     # this is also part of the body
```

Optional Arg

```
>>> def ask_ok(prompt, retries=4):
...     # function body 1
...     # function body 2
```