

CUCaTS Python Cheatsheet

Datatype Example

Integers	5
Floats	9.6
Booleans	True and False
Strings	"Hello world!"
Lists	[4, 8, 15, 16, 23, 42] ["first", "second"] [[], "some text", 99]
Dictionaries	{"Alice": 42, "Bob": 40}

Operations

+ , - , * , / (on integers or floats)
+ (to join strings or lists)
== , != (comparing any values)
> , >= , < , <= (comparing integers or floats)

Variables

Labels onto values. Their names must consist only of letters, digits and underscores. They can't start with a digit or have spaces. They are case sensitive.

Control flow

```
for _____ in _____:
```

```
if _____:
```

Functions

```
def _____(_____):  
  
    return _____
```

Lists

Element access `list[index]`

Comprehensions `[_____ for _____ in _____]`

Common methods

list.append(**item**)

list.reverse()

list.remove(**item**)

string.split(**separator**)

string.capitalize()

string.upper()

string.lower()

string.find(**substring**)

Dictionaries

An example:

```
ages = {"Alice": 42, "Bob": 40}
```

Indexing:

```
>>> ages["Bob"]  
40
```

Keys:

```
>>> ages.keys()  
dict_keys(['Alice', 'Bob'])
```

Adding or changing items:

```
>>> ages.update({"Charlie": 1})
```