

Differences between Python 2 and Python 3

This document is intended for students whose previous exposure to Python was Python 2; if you are already familiar with Python 3, you do not need to be reading any further.

Please note that this is not a comprehensive list of differences, but rather an indication of some of differences you might be more likely to encounter.

Printing values

In Python 3, parentheses are required around the value to be printed, as illustrated below:

```
print("New.") # Parentheses are new.
```

Keyboard input

The name of the function used for keyboard input has changed:

```
input() # Use input, not raw_input.
```

Using files

The name of the function used to open a file has changed:

```
open("file.txt", "r") # Use open, not file.
```

Division

The number of slashes determines the type of value returned; two slashes is used for integer division, and a single slash will result in a floating point number.

```
print(9//2) # Two slashes for integer division.  
print(9/2)  # Returns float.
```