1_Variable_types

September 29, 2016

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In [1]: # Print a string
        print('hello world')

hello world

In [3]: # Python works with different variable types. The above was a string:
        x = 'hello world'
        print(x)

hello world

In [4]: # Integer:
        x = 2
        type(x)

Out[4]: int

In [8]: # Most used: float (default precission number, 64 bit, about 12 demicals)
        x = 2/3.0
        print(x)

0.666666666667

In [ ]: print(x)

In [11]: # Taking the power of a number looks weird (not x^3):
         print(x**3.)

0.296296296296

In [17]: # Boolean: can be True of False
         x = False
         type(x)

Out[17]: bool

In [19]: if x:
             print('x is True')
             print(x*x)
         else:
             print('x is False')

x is False

In [20]: # Turning a float into a integer
         x = 4.352
         int(x)
```

```
Out[20]: 4

In [23]: # Turning the float into a string
         str(x)

Out[23]: '4.352'

In [24]: # To delete a variable from the python namespace:
         x = [1,2,3]

In [25]: x

Out[25]: [1, 2, 3]

In [26]: del x

In [27]: x


         ---------------------------------------------------------------------------

         NameError                                 Traceback (most recent call last)

         <ipython-input-27-401b30e3b8b5> in <module>()
    ----> 1 x


         NameError: name 'x' is not defined
```