

02.02-python-data-types

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1 Python

1.1 Common Data Types

```
-100
3.1416
'hello'
[1, 1.2, 'hello']
{'dogs': 5, 'pigs': 3}
Numpy array([1, 2, 3])
```

1.2 Others

```
10000000000000L
True, False
('ring', 1000)
{1, 2, 3}
Pandas DataFrame, Series
Object Oriented Classes
```

```
In [6]: import numpy as np
a=-100
b=3.14
c='hello'
d=[1,1.1,2,'hello']
e={'dogs':5,'pigs':3}
f=np.array([1,2,3])
```

```
In [9]: print(type(a))
print(type(b))
print(type(c))
print(type(d))
```

```

        print(type(e))
        print(type(f))

<class 'int'>
<class 'float'>
<class 'str'>
<class 'list'>
<class 'dict'>
<class 'numpy.ndarray'>

In [19]: import pandas as pd
         b=True
         c=('ring', 1000)
         d={1, 2, 3}
         e=pd.Series([1,2,3],index=[1,2,3])
         f=pd.DataFrame([[1,2],[3,4]],columns=['x','y'])

In [20]: print(f)
         print(e)

   x  y
0  1  2
1  3  4
1    1
2    2
3    3
dtype: int64

In [21]: print(type(b))
         print(type(c))
         print(type(d))
         print(type(e))
         print(type(f))

<class 'bool'>
<class 'tuple'>
<class 'set'>
<class 'pandas.core.series.Series'>
<class 'pandas.core.frame.DataFrame'>

```