# Series selection from a Dataframe (ufo dataset)

November 16, 2016

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In [1]: import pandas as pd

In [3]: ufo = pd.read_csv('http://bit.ly/uforeports')

In [4]: type(ufo)

Out[4]: pandas.core.frame.DataFrame

In [6]: ufo.head() #Ithaca!!!

Out[6]:                    City Colors Reported Shape Reported State            Ti
        0                Ithaca             NaN       TRIANGLE    NY   6/1/1930 22:
        1           Willingboro             NaN          OTHER    NJ  6/30/1930 20:
        2               Holyoke             NaN           OVAL    CO  2/15/1931 14:
        3               Abilene             NaN           DISK    KS   6/1/1931 13:
        4   New York Worlds Fair            NaN          LIGHT    NY  4/18/1933 19:

In [11]: type(ufo['City']) # it is case sensitive

Out[11]: pandas.core.series.Series

In [10]: type(ufo['Shape Reported'])

Out[10]: pandas.core.series.Series

In [13]: type(ufo.City) # is the same as type(ufo['City']) -> dot notation version

Out[13]: pandas.core.series.Series

In [17]: # tab after dot notation gives a dropdown of all possible values\
         # note: if the column has a space, dot notation will not work-> use bracke
         # you must use bracket notation when creating new Series
         ufo['Location'] = ufo.City + ', ' + ufo.State

In [19]: ufo.head()

Out[19]:               City Colors Reported Shape Reported State             T
         0          Ithaca             NaN       TRIANGLE    NY   6/1/1930 22
         1     Willingboro             NaN          OTHER    NJ  6/30/1930 20
         2         Holyoke             NaN           OVAL    CO  2/15/1931 14
```

```
3              Abilene          NaN        DISK    KS   6/1/1931 13
4  New York Worlds Fair          NaN        LIGHT   NY   4/18/1933 19

                   Location
0              Ithaca, NY
1         Willingboro, NJ
2             Holyoke, CO
3             Abilene, KS
4  New York Worlds Fair, NY
```

In [ ]: