In [2]: import numpy as np
from pandas import Series, DataFrame
import pandas as pd

In [3]: # Can open csv files as a dataframe
dframe = pd.read\_csv('lec25.csv')
#Show
dframe

In [4]: # Can also use read\_table with ',' as a delimiter
dframe = pd.read\_table('lec25.csv',sep=',')
#Show
dframe

In [5]: dframe

In [6]: #If we dont want the header to be the first row
dframe = pd.read\_csv('lec25.csv', header=None)

#Show
dframe

Out[6]: 0 1 2 3 4
0 q r s t apple
1 2 3 4 5 pear
2 a s d f rabbit

5 2

5

dog

In [7]: # We can also indicate a particular number of rows to be read
pd.read\_csv('lec25.csv',header=None,nrows=2)

Out[7]: 0 1 2 3 4 0 q r s t apple 1 2 3 4 5 pear

In [8]: # Let's see dframe again
dframe

Out[8]:

	0	1	2	თ	4	
0	q	r	s	t	apple	
1	2	3	4	5	pear	
2	а	s	d	f	rabbit	
3	5	2	5	7	dog	

In [10]: # Now let's see how we can write DataFrames out to text files
dframe.to\_csv('mytextdata\_out.csv')

#You'll see this file where you're ipython Notebooks are saved (Usually under my

```
In [14]: | # We can also use other delimiters
         #we'll import sys to see the output
         import sys
         #Use sys.stdout to see the output directly and not save it
         dframe.to_csv(sys.stdout,sep='_')
         _0_1_2_3_4
         0_q_r_s_t_apple
         1_2_3_4_5_pear
         2_a_s_d_f_rabbit
         3_5_2_5_7_dog
In [15]: # Just to make sure we understand the delimiter
         dframe.to_csv(sys.stdout,sep='?')
         ?0?1?2?3?4
         0?q?r?s?t?apple
         1?2?3?4?5?pear
         2?a?s?d?f?rabbit
         3?5?2?5?7?dog
In [17]: | #We can also choose to write only a specific subset of columns
         dframe.to_csv(sys.stdout,columns=[0,1,2])
         ,0,1,2
         0,q,r,s
         1,2,3,4
         2,a,s,d
         3,5,2,5
In [18]: #You should also check out pythons built-in csv reader and writer for more info:
         # https://docs.python.org/2/library/csv.html
           File "<ipython-input-18-0b665ff54019>", line 2
             https://docs.python.org/2/library/csv.html (https://docs.python.org/2/libra
         ry/csv.html)
         SyntaxError: invalid syntax
 In [ ]: | #Next we'll learn about reading JSON data!
```