

HOW TO IMPORT DATA FROM FILES AND URLS

SHARP SIGHT

WHAT YOU'LL LEARN

- How to create dataframes from external files
 - csv files
 - txt files
- How to "download" data from a URL

CREATE A DATAFRAME FROM
CSV DATA

CREATE A DATAFRAME FROM CSV DATA

- Pandas has a function to read in data from a CSV
 - `read_csv()`
- `read_csv()` allows us to directly convert CSV data to a DataFrame
 - Because CSV is an extremely common format, this is very useful
- `pd.read_csv()` can also be used to get data from other sources

SYNTAX: CREATE A DATAFRAME FROM CSV DATA

The function name



```
pd.read_csv("/location/.../file_name.csv")
```



The full file name and location,
enclosed inside of quotations

NOTE: THE 'LOCATION' OF THE CSV FILE HAS TWO PARTS

The folder location of the
csv file in your file system



```
pd.read_csv("/location/.../file_name.csv")
```



The name of the csv file

CREATE A DATAFRAME FROM
DATA AT A URL

IMPORT DATA FROM A CSV FILE AT A URL

- You can also retrieve CSV data from a URL
- Use `read_csv()`
- Instead of passing a file location, use the URL

SYNTAX: CREATE A DATAFRAME FROM CSV DATA

The function name



```
pd.read_csv("https://sharpsightlabs.com/.../file_name.csv")
```



The full url of the file

NOTE: THE COMPLETE LOCATION INCLUDES THE URL AND THE FILE NAME

The URL where the file is located
(including any sub-folder)



```
pd.read_csv("https://sharpsightlabs.com/.../file_name.csv")
```



The name of the file

RECAP

RECAP OF WHAT WE LEARNED

- How to create Pandas dataframes from external files
 - csv files
 - txt files
- How to use `read_csv()`
 - specify the location in the file system
 - specify the file name
- How to import data from a file on the internet
 - specify the URL
 - specify the file name