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Python | Read csv using pandas

A computer science po

Python is a great language for doing data analysis, especially with its rich ecosystem of data-centric python packages. Pandas makes it much easier.

Import Pandas:

```
import pandas as pd
```

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Code #1 : read_csv is an important pandas function to read csv files and do operations on it.

```
# Import pandas
import pandas as pd

# reading csv file
pd.read_csv("filename.csv")
```

Opening a CSV file through this is easy. But there are many others thing one can do through this function only to change the returned object completely. For instance, one can read a csv file not only locally, but from a URL through read_csv or one can choose what columns needed to export so that we don't have to edit the array later.

Here is the list of parameters it takes with their **Default values**.



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```
engine=None, converters=None, true_values=None,
skiprows=None, nrows=None, na_values=None, keep_
verbose=False, skip_blank_lines=True, parse_dates=
keep_date_col=False, date_parser=None, dayfirst=
compression='infer', thousands=None, decimal=b'.'.
escapechar=None, comment=None, encoding=None,
error_bad_lines=True, warn_bad_lines=True, skipco
delim_whitespace=False, low_memory=True, mem
```

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Not all of them are much important but remembering these actually save time of performing same functions on own. One can see parameters of any function by pressing shift + tab in jupyter notebook. Useful ones are given below with their usage :

PARAMETER	USE
filepath_or_buffer	URL or Dir location of file
sep	Stands for separator, default is ',' as in csv(comma separated values)
index_col	Makes passed column as index instead of 0, 1, 2, 3...r

```
In [21]: pd.read_csv("../pokemon.csv", index_col="Type", squeeze = True)
```

```
Out[21]: Type
Grass      Bulbasaur
Grass      Ivysaur
Grass      Venusaur
Fire       Charmander
Fire       Charmeleon
Fire       Charizard
Water      Squirtle
Water      Wartortle
```



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[LEARN MORE](#)[HIDE AD](#) • [AD VIA BUYSPELLADS](#)In [18]: `pd.read_csv("../`

Out[18]:

	Charizard	F
	Venusaur	C
	Charmeleon	F
	Squirtle	V
0	Wartortle	
1	Blastoise	
2	Caterpie	Bug
3	Metapod	Bug



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use_cols	Only uses the passed col[string list] to make data frame
squeeze	If true and only one column is passed, returns pandas series
skiprows	Skips passed rows in new data frame

Refer the link to data set used from [here](#).

Code #2 :

```
# importing Pandas library
import pandas as pd

pd.read_csv(filepath_or_buffer = "pokemon.csv")

# makes the passed rows header
pd.read_csv("pokemon.csv", header =[1, 2])

# make the passed column as index instead of 0, 1, 2, 3....
pd.read_csv("pokemon.csv", index_col ='Type')

# uses passed cols only for data frame
pd.read_csv("pokemon.csv", usecols =["Type"])

# reutrns pandas series if there is only one columnn
pd.read_csv("pokemon.csv", usecols =["Type"],
            squeeze = True)

# skips the passed rows in new series
pd.read_csv("pokemon.csv",
            skiprows = [1, 2, 3, 4])
```



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