

(DataFrame Technique) Use the map() function on a DataFrame

The map function maps values in a Series or a Dict to values in a DataFrame

In [8]:

```
import pandas as pd
hsclasses = [ ["Math", "Mr. Rogers", 1],
              ["History", 'Mrs. Gonzalez', 2],
              ["Science", 'Mr. Singer', 3],
              ["Spanish", 'Mrs. Paola', 4] ]
cols = ["Subject", "Teacher", "Period"]
myclasses = pd.DataFrame.from_records(hsclasses)
myclasses.columns = cols
myclasses
```

Out[8]:

	Subject	Teacher	Period
0	Math	Mr. Rogers	1
1	History	Mrs. Gonzalez	2
2	Science	Mr. Singer	3
3	Spanish	Mrs. Paola	4

Use the map function to add a column based on lookup values in a dict

In [9]:

```
ap_credits = {"Math":True,"History":False,"Science":True,"Spanish":False}
myclasses["AP Credit"] = myclasses["Subject"].map(ap_credits)
myclasses
```

Out[9]:

	Subject	Teacher	Period	AP Credit
0	Math	Mr. Rogers	1	True
1	History	Mrs. Gonzalez	2	False
2	Science	Mr. Singer	3	True
3	Spanish	Mrs. Paola	4	False

Use the map function to update a column based on a dict

In [10]:

```
myteachers = {"Math":"Mr.Rogers","History":"Mrs. Gonzalez","Science":"Mr. Safir",
,"Spanish":"Mr. Bustamante"}
myclasses["Teacher"] = myclasses["Subject"].map(myteachers)
myclasses
```

Out[10]:

	Subject	Teacher	Period	AP Credit
0	Math	Mr.Rogers	1	True
1	History	Mrs. Gonzalez	2	False
2	Science	Mr. Safir	3	True
3	Spanish	Mr. Bustamante	4	False