

(DataFrame Technique) Use the Dataframe.applymap() function

- This method applies a function to **every element** in a DataFrame

In [46]:

```
import pandas as pd
foods =  [{"apple","banana","carrot"},
          ["danish","eclair","french bread"],
          ["grapes","hot dogs","ice cream"]]
cols = ["foods1","foods2","foods3"]
foodsdf = pd.DataFrame.from_records(foods)
foodsdf.columns = cols
foodsdf
```

Out[46]:

	foods1	foods2	foods3
0	apple	banana	carrot
1	danish	eclair	french bread
2	grapes	hot dogs	ice cream

Applymap() the str.upper() function to all columns of a DataFrame

In [47]:

```
foodsdf= foodsdf.applymap(lambda x: x.upper())
foodsdf
```

Out[47]:

	foods1	foods2	foods3
0	APPLE	BANANA	CARROT
1	DANISH	ECLAIR	FRENCH BREAD
2	GRAPES	HOT DOGS	ICE CREAM

In [48]:

```
import pandas as pd
weather = [ ["Houston",99,110,99],
            ["Dallas",90,90,100],
            ["El Paso",100,99,90]]
cols = ["City","Monday","Tuesday","Wednesday"]
weatherdf = pd.DataFrame.from_records(weather)
weatherdf.columns = cols
weatherdf
```

Out[48]:

	City	Monday	Tuesday	Wednesday
0	Houston	99	110	99
1	Dallas	90	90	100
2	El Paso	100	99	90

Applymap() the str.upper() function to 1 column of a DataFrame

In [49]:

```
weatherdf["City"] = weatherdf[["City"]].applymap(lambda x: x.upper())
weatherdf
```

Out[49]:

	City	Monday	Tuesday	Wednesday
0	HOUSTON	99	110	99
1	DALLAS	90	90	100
2	EL PASO	100	99	90

Applymap() a x + 10 function to multiple columns of a DataFrame

In [50]:

```
weatherdf[["Monday", "Tuesday", "Wednesday"]] = weatherdf[["Monday", "Tuesday", "Wednesday"]].applymap(lambda x: x+ 10)  
weatherdf
```

Out[50]:

	City	Monday	Tuesday	Wednesday
0	HOUSTON	109	120	109
1	DALLAS	100	100	110
2	EL PASO	110	109	100