# **Data Wrangling NA**

with Pandas
Cheat Sheet

df

ST_NUM	OWN_OCC	
104		
197	Υ	
NA	n/a	
201	N	

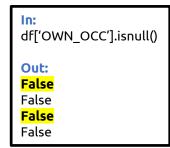
df2

ST_NUM	OWN_OCC	
104	NA	
197	Υ	
NA	NA	
201	N	

## Detecting NA — Missing values that Pandas recognizes

In:
df['ST\_NUM'].isnull()

Out:
False
False
True
False



Pandas won't detect non-standard missing values such as "n/a" and "—"

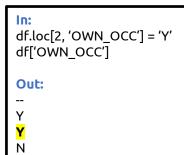
# Replacing NA — Replacing different types of missing values

#### Replace on import

```
In:
missing = ["—","n/a"]
pd.read_csv("data.csv", na_values=missing)
df['OWN_OCC']

Out:
NaN
Y
NaN
```

### Replace by location



#### Fill all missing values

In:
df['ST\_NUM'].fillna(125, inplace=True)
df['ST\_NUM']

Out:
104
197
125
201

### **Summarizing** — Summarizing missing values

#### Any missing values?



### Sum by column

In: df2.isnull().sum()	
Out: ST_NUM OWN_OCC	1 2

#### Total missing values

In:
df2.isnull().sum().sum()
Out:
3