pandas and dplyr functionality

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On Day 2, we saw how to use the pandas Python module to import, summarize and manipulate data in a tabular format. The scripts accompanying the first hour of Day 3 demonstrated how to do the same with base R and the 'Hadleyverse' package dplyr . This slide set demonstrates similar functionality with each module/package.

Since importing data has already been covered, the focus will be on data manipulation.

Dimensionality in pandas

```
import pandas as pd
import numpy as np
density url = 'http://www.census.gov/2010census/csv/pop densit
density data 2010 = pd.read csv(density url, skiprows = [0, 1
density data dimen = density data 2010.shape
density data cols = density data 2010.columns.values.tolist()
density data_idx = density_data_2010.index
pop_1910 = density_data_2010['1910_POPULATION'].values
print 'Data dimensions: %d rows, %d columns' % (density data of
```

```
## Data dimensions: 53 rows, 34 columns
## First 10 indices of population density DataFrame: Int64Ind
```

print 'First 10 indices of population density DataFrame: ', de

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