**Grouping by another series**

In this exercise, you'll use two data sets from [**Gapminder.org**](http://gapminder.org/) to investigate the average life expectancy (in years) at birth in 2010 for the 6 continental regions. To do this you'll read the life expectancy data per country into one pandas DataFrame and the association between country and region into another.

By setting the index of both DataFrames to the country name, you'll then use the region information to group the countries in the life expectancy DataFrame and compute the mean value for 2010.

The life expectancy CSV file is available to you in the variable life\_fname and the regions filename is available in the variable regions\_fname.

**INSTRUCTIONS**

* Read life\_fname into a DataFrame called life and set the index to 'Country'.
* Read regions\_fname into a DataFrame called regions and set the index to 'Country'.
* Group life by the region column of regions and store the result in life\_by\_region.
* Print the mean over the 2010 column of life\_by\_region.

# Read life\_fname into a DataFrame: life

life = pd.read\_csv(life\_fname, index\_col='Country')

print(life.head())

# Read regions\_fname into a DataFrame: regions

regions = pd.read\_csv(regions\_fname, index\_col='Country')

# Group life by regions['region']: life\_by\_region

life\_by\_region = life.groupby(regions['region'])

# Print the mean over the '2010' column of life\_by\_region

print(life\_by\_region['2010'].mean())