Economic Growth

# Data Exploration Problem, 150pts

The GDP (gross domestic product) growth rate measures how fast the economy is growing. Four components drive it: personal consumption, business investment, government spending and net trade. It is measured quarterly, and is the most important economic health indicator.

As a data scientist, you have to analyze data from the World Bank and create a model that can project GDP growth for Mexico and the top 10 countries in 2030.

OBJECTIVE:

Create a GDP growth model for Mexico and the top 10 countries and project for 2030.

FEATURES:

Pandas has an API to access World Bank data directly using pandas-datareader. It can be found here: <http://pandas-datareader.readthedocs.io/en/latest/remote_data.html#indicators>

The World Bank has a web interface to view the data:

<http://databank.worldbank.org/data/reports.aspx?source=world-development-indicators>

As for the source, we recommend using:

* GDP growth (annual %)(NY.GDP.MKTP.KD.ZG)
* GDP per capita growth (annual %)(NY.GDP.PCAP.KD.ZG)

Google has an interesting tool to create simple graphs that feeds from the World Bank data: <https://www.google.com/publicdata/explore?ds=d5bncppjof8f9_>

DELIVERABLES:

* Presentation(150pts) You will present your findings to a group of judges. They will evaluate your results in terms of originality, model fitness with data, technique used to find the model, and quality of the presentation. To present your results, you will have 5 minutes.