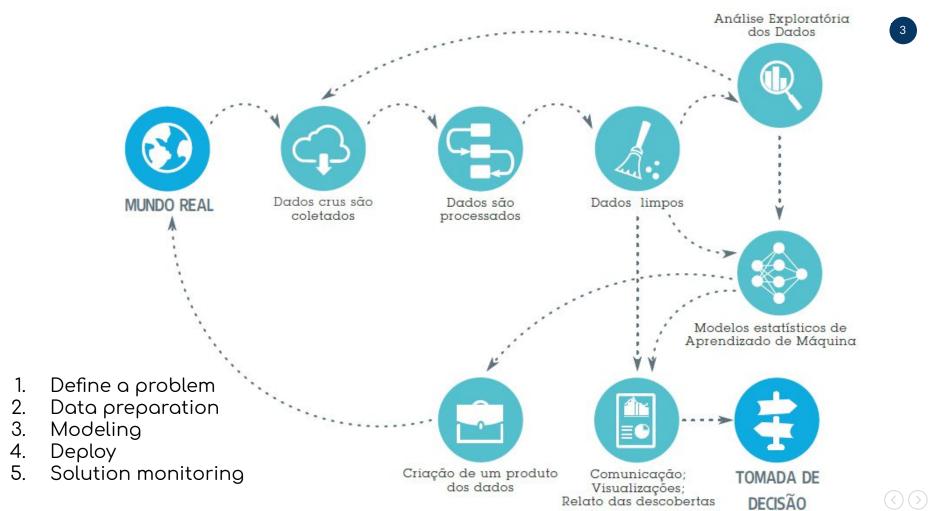


Introduction to Pandas

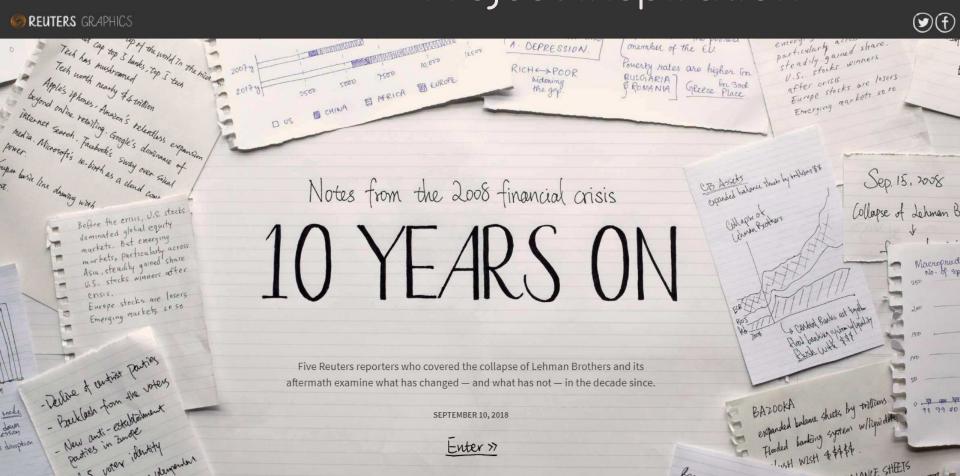
Mar. 2020 Real Python

- 1. What do you think makes a good data scientist?
- 2. Give a few examples of "best practices" in data science.
- 3. Can you outline the steps in a data science project?
- 4. What data would you love to acquire if there were no limitations?
- 5. Tell me a compelling story about data that you have analyzed.

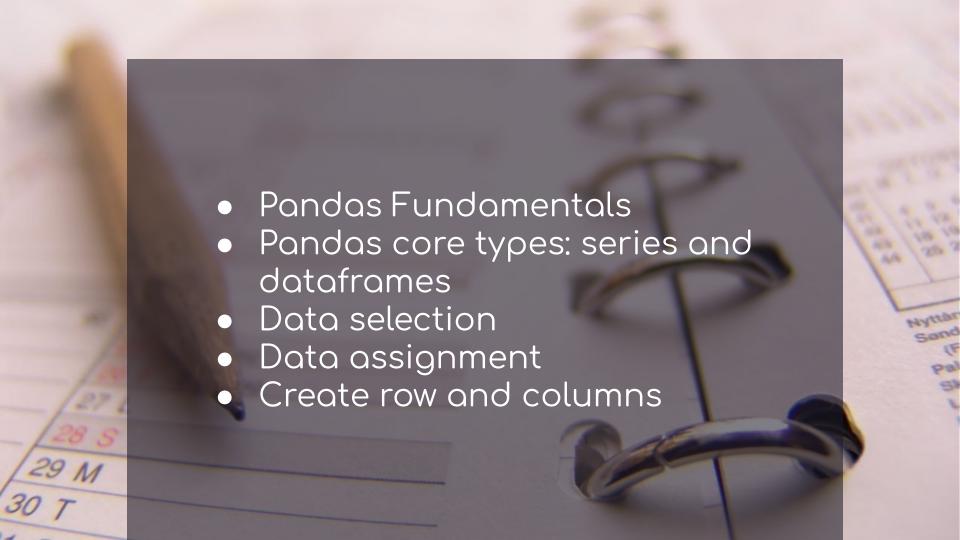


- 1. Plan the experiment: this involves answering questions like:
 - a. What is the objective of the project
 - b. What kind of data
 - c. What is the desired accuracy
- 2. Gather raw data: make sure that we have the right kind of data and large enough data set for the desired accuracy.
- 3. Gather tools: use standard libraries, and aims for reproducibility
- 4. Execute experiments
- 5. Analyze
- 6. Comunicate: this involves preparing summaries of Experimental results, plots, publication,

Project Inspiration



Introduction to Pandas Exploring Data with Pandas Data Cleaning Basics Data Aggregation << Project 01>> **Combining Data with Pandas Transforming Data with Pandas Working with String in Pandas Regular Expression** 29 M Working with missing and duplicate data << Project 02>>



Update from repository

git clone https://github.com/ivanovitchm/datascience2020

Or

git pull









Global 500

The world's 500 largest companies generated \$32.7 trillion in revenues and \$2.15 trillion in profits in 2018. Together, this year's Fortune Global 500 companies employ 69.3 million people worldwide and are represented by 34 countries. Click here to view

Fortune 500

This year's *Fortune* 500 marks the 65th running of the list. In total, Fortune 500 companies represent two-thirds of the U.S. GDP with \$13.7 trillion in revenues, \$1.1 trillion in profits, \$22.6 trillion in market value, and employ 28.7 million people worldwide.

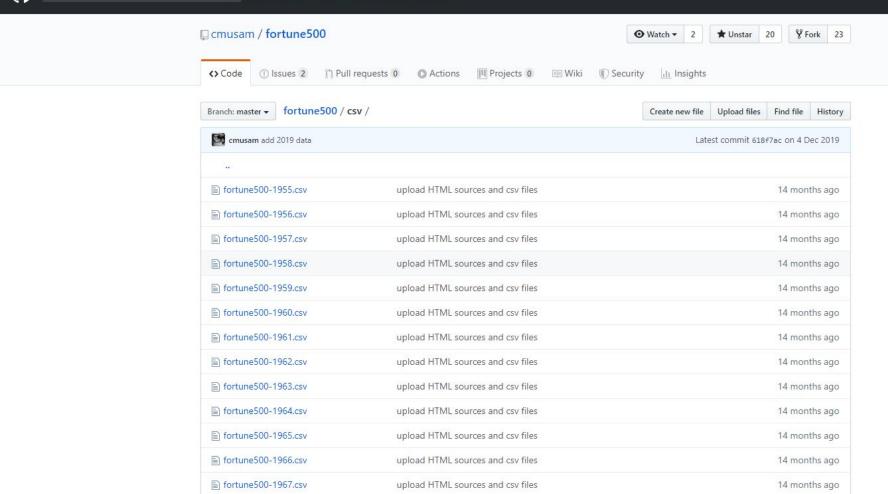
The Top 10 Revenues (\$M) Walmart \$514,405 Sinopec Group \$414,649 Royal Dutch Shell \$396,556 China National Petroleum \$392,976 State Grid \$387,056 Saudi Aramco \$355,905 BP \$303,738 Exxon Mobil \$290,212 Volkswagen \$278,341 Toyota Motor \$272,612

https://fortune.com/global500/













company	rank	revenues	revenue_change	profits	assets	profit_change	ceo	industry
Walmart	1	485873	0.8	13643.0	198825	-7.2	C. Douglas McMillon	General Merchandisers
State Grid	2	315199	-4.4	9571.3	489838	-6.2	Kou Wei	Utilities
Sinopec Group	3	267518	-9.1	1257.9	310726	-65.0	Wang Yupu	Petroleum Refining
China National Petroleum	4	262573	-12.3	1867.5	585619	-73.7	Zhang Jianhua	Petroleum Refining
Toyota Motor	5	254694	7.7	16899.3	437575	-12.3	Akio Toyoda	Motor Vehicles and Parts

PANDAS PROFILING

https://github.com/pandas-profiling/pandas-profiling







Plotly

Open Source Graphing Libraries

Python

Plotly Fundamentals

Plotly Express

♠ Edit this page on GitHub



Navigation

Plotly Express

A single import with built-in datasets

Scatter and Line plots

Visualize Distributions

Ternary Coordinates

Images

3D Coordinates

Polar Coordinates

Maps

Back To Python



Plotly Express in Python

Plotly Express is a terse, consistent, high-level API for rapid data exploration and figure generation.



Python

► New to Plotly?

Plotly Express

Plotly Express is the easy-to-use, high-level interface to Plotly, which operates on "tidy" data and produces easy-to-style figures. Every Plotly Express function returns a graph objects. Figure object whose data and layout has been pre-populated according to the provided arguments.

Note: Plotly Express was previously its own separately-installed plotly express package but is now part of plotly and importable via import plotly.express as

This notebook demonstrates various plotly, express features. Reference documentation is also available, as well as a tutorial on input argument types and one on how to style figures made with Plotly Express.

You can also read our original Medium announcement article for more information on this library.





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The Data Science Interview Study Guide

121 resources to help you land your data science dream job









Top highlight





