



10th December 2018

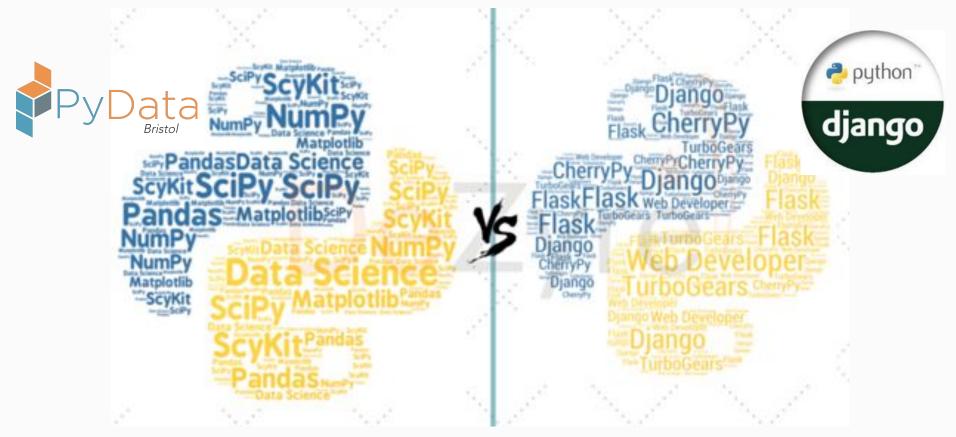
Joint Christmas special

Frank Kelly, Rob Charlwood and Miquel Perello-Nieto

Christmas Special

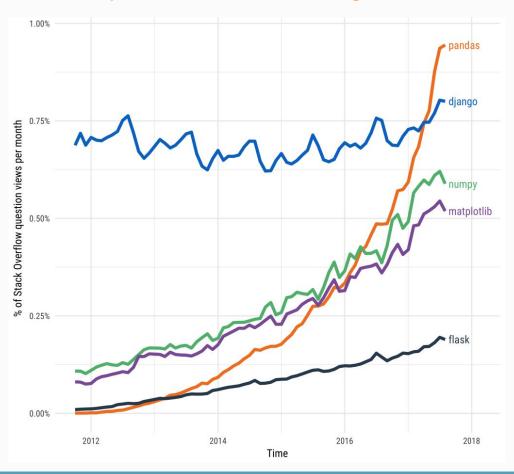
6:30	Intro to the event	Meetup Organizers
6:40	Santas Routing Problem - Observations on a Kaggle Competition	Bharat Kunwar
6:50	1 day with Docker - What I learned in my first 8 hours	Rob Charlwood
7:00	© Break	
7:30	Community announce	Attendants
7:40	Trading using Reinforcement Learning	Matt Hamilton
8:00	©© Networking and drinks	All

Data Science vs Web Development



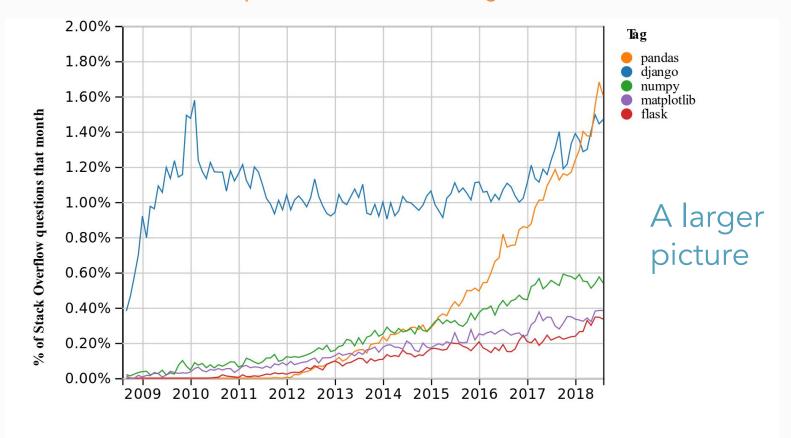
Stack Overflow Traffic to Questions About Selected Python Packages

Based on visits to Stack Overflow questions from World Bank high-income countries



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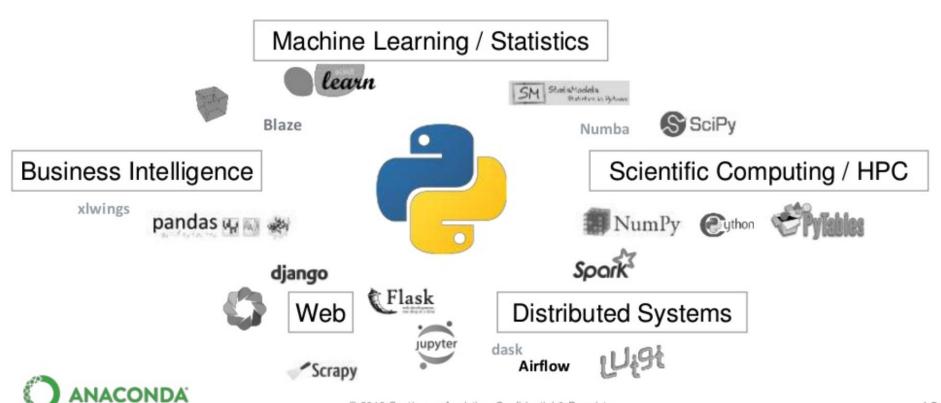


"Python's popularity in data science and machine learning is probably the main reason for its fast growth"

https://stackoverflow.blog/2017/09/14/python-growing-quickly/

Network of Correlated Tags Visited by Python Visitors Color represents 2017/2016 growth rate of Stack Overflow question views among Python visitors: whether the tag is becoming more (orange) or less (blue) frequently visited alongside Python. for-loop regex tkinter string python-3.x loops python-2.7 parsing dictionary ison sorting algorithm indexing % of traffic math pyspark replace arrays dataframe matplotlib apache-spark matrix pandas hadoop matlab numpy datetime ubuntu scikit-learn machine-learning image time tensorflow ssh date neural-network opency unix Growth function keras 4X 2X class Same oop .5X angularis github postgresq html avascript sql-server node.js php twitter-bootstrap jquery database flask sqlite django django models

Python is the common language



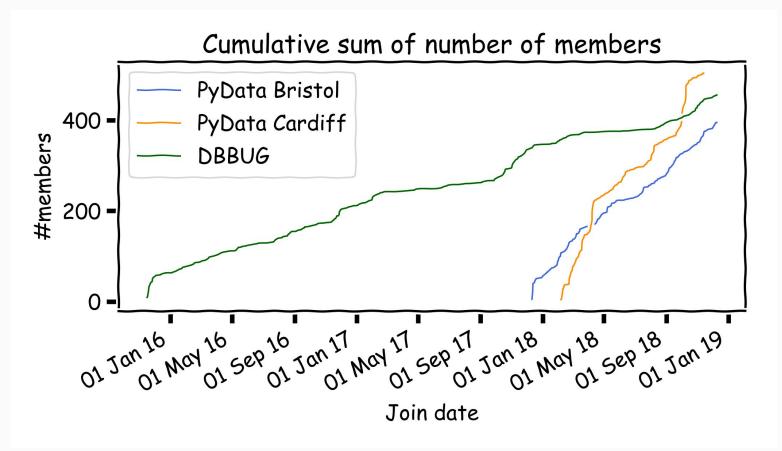
Upcoming events

```
#PyData Cardiff Meelup (11 December, Tomorrow!)

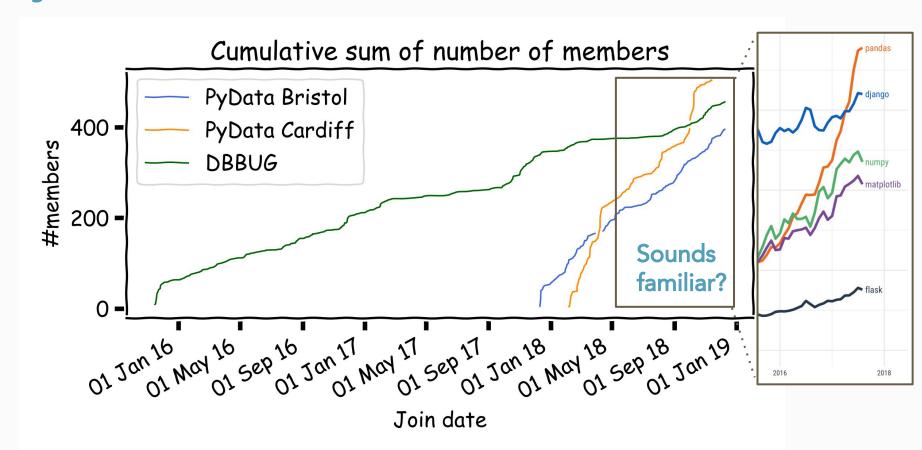
#South West Data Social Meelup (11 December in Bristol, Tomorrow!)

#PyData Bristol Meelup (17 January 2019)
```

PyData Bristol/Cardiff, DBBUG members



PyData Bristol/Cardiff, DBBUG members



The Xmas package: pyjanitor

Tools for cleaning Pandas DataFrames



Implements method chaining

```
import pandas as pd

df = pd.DataFrame(...) # create a pandas DataFrame
somehow.

del df['column1'] # delete a column from the dataframe.

df = df.dropna(subset=['column2', 'column3']) # drop
rows that have empty values in column 2 and 3.

df = df.rename({'column2': 'unicorns', 'column3':
   'dragons'}) # rename column2 and column3

df['new_column'] = ['iterable', 'of', 'items'] # add a
new column.

df.reset_index(inplace=True, drop=True) # reset index to
account for the missing row we removed above
```

The pyjanitor approach

```
import pandas as pd
import pandas_flavor as pf

df = (
    pd.DataFrame(...)
    .remove_columns(['column1'])
    .dropna(subset=['column2', 'column3'])
    .rename_column('column2', 'unicorns')
    .rename_column('column3', 'dragons')
    .add_column('new_column', ['iterable', 'of', 'items'])
    .reset_index_inplace(drop=True)
)
```

pip install pyjanitor



Thanks to our sponsors





Margriet Groenendijk



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