



19th July 2018

Welcome from: Miquel Perelló-Nieto,  
Frank Kelly and John Sandall

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# PyData Bristol previous Meetups

Really enjoyed it. Good talks.



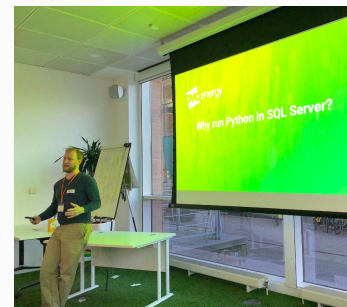
Excellent event, thanks for organising.



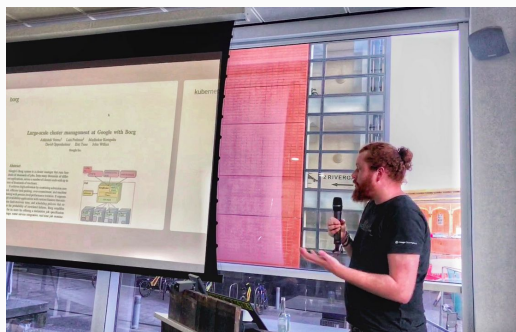
Well organised, good talks as usual, looking forward to the next one!

Brilliant!

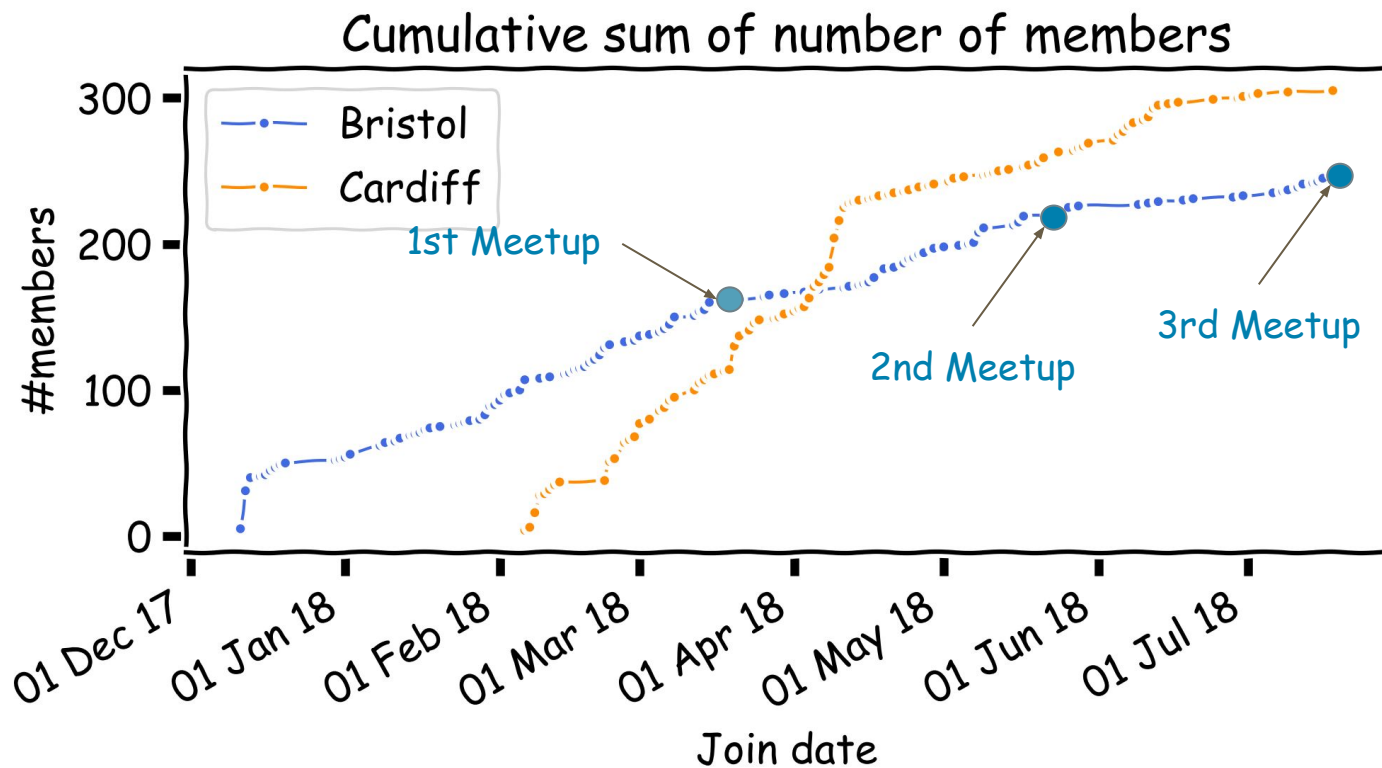
Thanks for organising



Great venue and format.



# PyData Bristol and Cardiff members



# How did you do the previous `xkcd` plot?

```
from numpy import linspace, cos, sqrt, pi, abs

oooww = lambda x: sqrt(cos(x)) * cos(200*x) + \
    sqrt(abs(x)) - \
    (pi/4.0)*(4 - x**2)**0.01

x = linspace(-2, 2, 800)
y = oooww(x)

import matplotlib.pyplot as plt

# Next call makes all the difference
plt.xkcd()

plt.plot(x, y, c='orange')
plt.title('oooww!')
plt.savefig('oooww.png')
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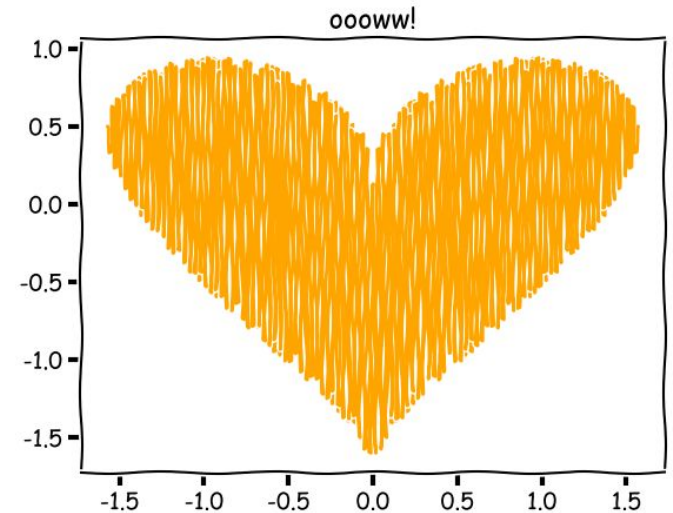
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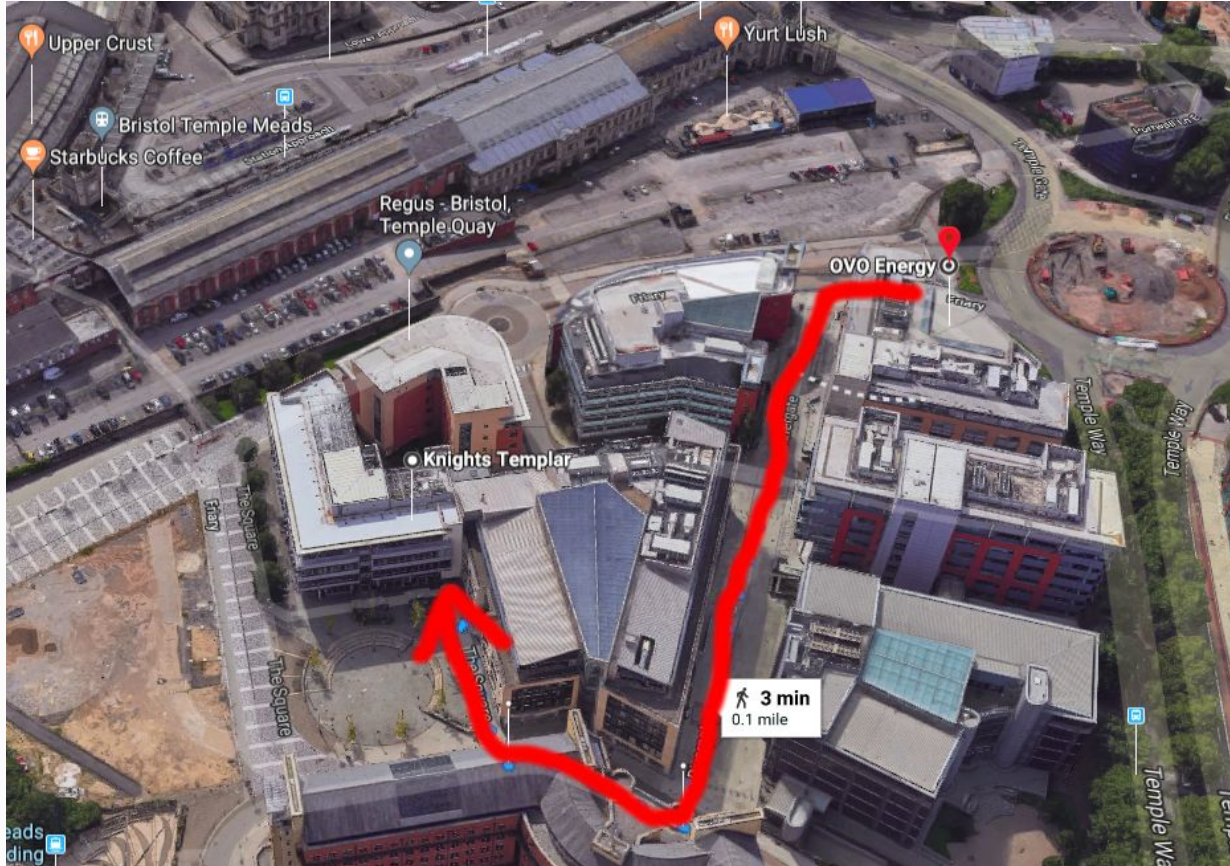


# PyData Bristol - tonight

7pm	Intro PyData Bristol	Miquel Perello-Nieto
7:05	Rights for malware!	Miranda Mowbray
7:40	 Intro to PCA for Data Science	Jaunius Urbonas
7:45	Break	
8pm	Community announce	John Sandall
8:05	The Case for Testing in Data Science	Chris Musselle
8:40	 Innovation and Technology for Good	Margriet Groenendijk
8:45	Networking and drinks	



# Networking & Drinks @ 9pm



# NumFOCUS News

pandas



## pandas 0.23.1

Release date: June 12, 2018

This is a minor release from 0.23.0 and includes a number of bug fixes and performance improvements.



## NumPy just released 1.14.4

<https://github.com/numpy/numpy/releases/tag/v1.14.4>



## SymPy 1.2 was released on July 9

SymPy 1.2 can be installed with pip (pip install -U sympy) or conda (conda install sympy).



**Bokeh has started releasing "1.0.0dev" builds,** with an aim to have a full 1.0 release in the next two months.



We released **Julia 0.7-beta**:

<https://discourse.julialang.org/t/julia-0-7-0-beta-is-now-available/11948>



## PyTables 3.4.4 release

On June 12th, PyTables announced a new version. This new release adds an environment variable to control the use of embedded libraries and fixed test failures with Python 2.7 and NumPy 1.14.3. The release includes many small bugfixes.

[http://www.pytables.org/release\\_notes.html](http://www.pytables.org/release_notes.html)



**JOSS (the Journal of Open Source Software)** has a new docs site which we're rather pleased with!

<https://joss.readthedocs.io/en/latest/>



# Upcoming events

#EuroPython (23-29 July in Edinburgh)

#JuliaCon (7-11 August in London)

#KDD (Knowledge Discovery and Data Mining) (19-23 August in London)

- Workshops & tutorials: Health day (19-20) and Deep Learning day (20)

#PyData Cardiff *Meetup* (8 August)

#EuroSciPy Trento (28 August - 1st September Italy)

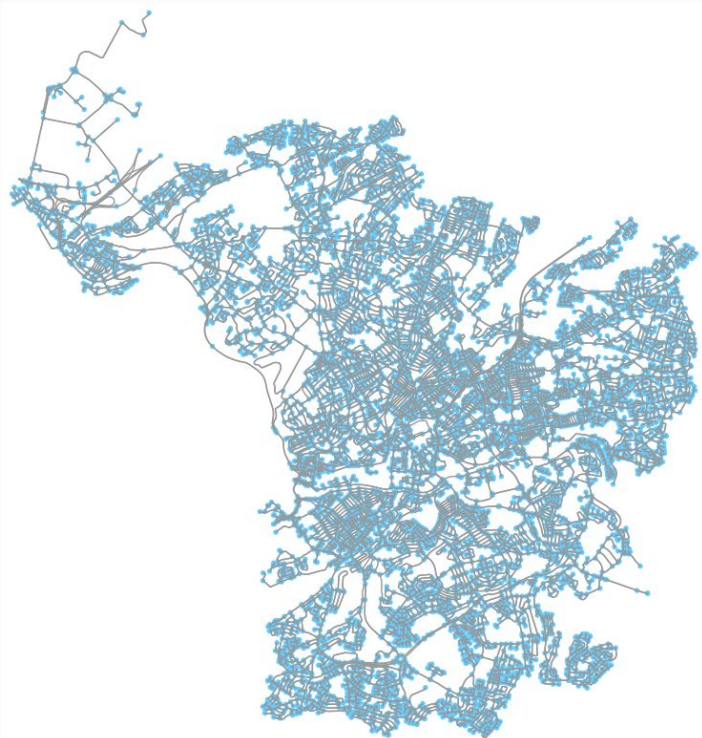
#Royal Statistical Society (3-6 September in Cardiff)

#BigData Bristol *Meetup* (12 September)

#PyCon UK (15-19 September in Cardiff)

# Bimestrial package #1: OSMnx

## Python for street networks



Retrieve, construct, analyze, and visualize street networks from OpenStreetMap.

Uses NetworkX

```
import osmnx as ox
G = ox.graph_from_place('Bristol, United Kingdom',
                        network_type='drive')
ox.plot_graph(ox.project_graph(G))
```

Example notebooks here:

<https://github.com/gboeing/osmnx-examples/>

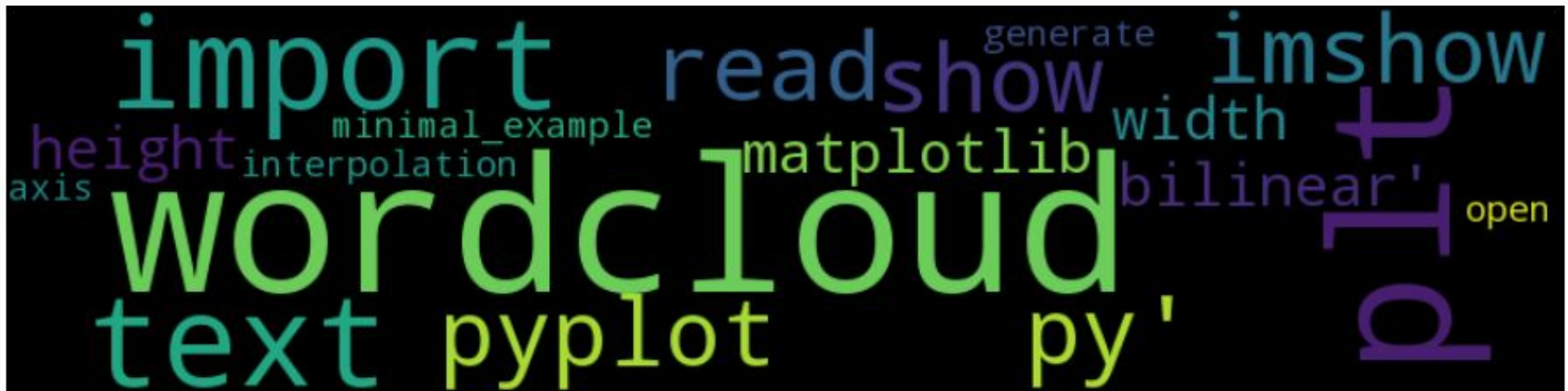
```
pip install osmnx
```

# Bimestrial package #2: Word cloud

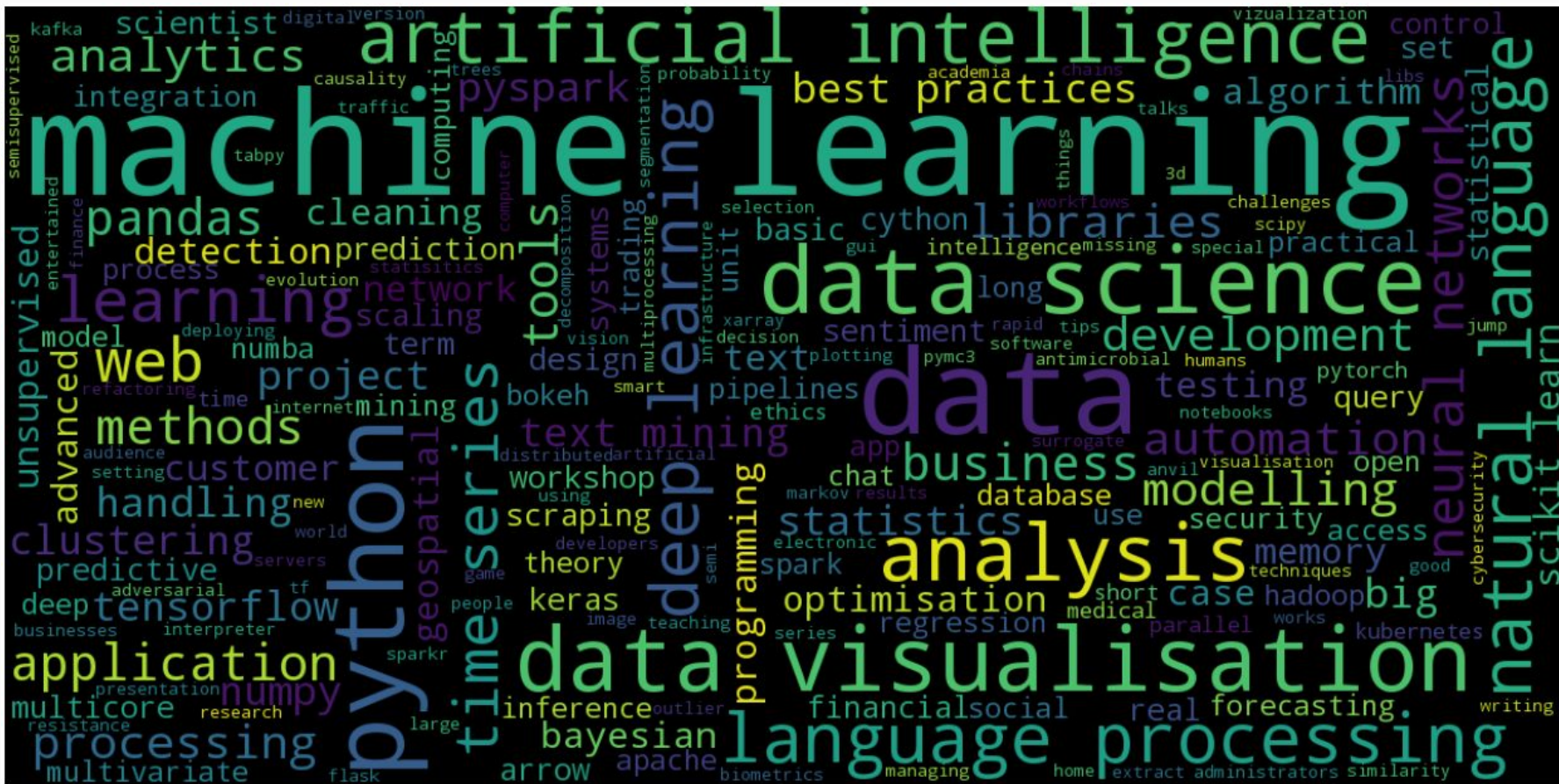
```
from wordcloud import WordCloud

text = open('minimal_example.py').read()
wordcloud = WordCloud(width=800, height=200).generate(text)

import matplotlib.pyplot as plt
plt.imshow(wordcloud, interpolation='bilinear')
plt.axis("off")
plt.show()
```



# Talk topics that would be of interest to you



# Participate!

- PyData is [community-driven](#)
- [Share](#) your knowledge (novice to advanced)
- Propose interesting [discussions](#)
- New data analysis tools? New trends?

## Contact us!

- [@John\\_Sandall](#)
- Miquel [@PerelloNieto](#)
- Frank Kelly ([@norhustla](#))



**Miquel**



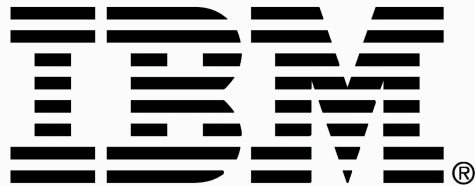
**John**



**Frank**



Thanks to all attendees!  
and sponsors!



Do you want to be a sponsor?  
Come and talk to us.