



5th May 2020

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The organisers



coefficient



 **James**
Yarrow



Lenka
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Miquel
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Frank
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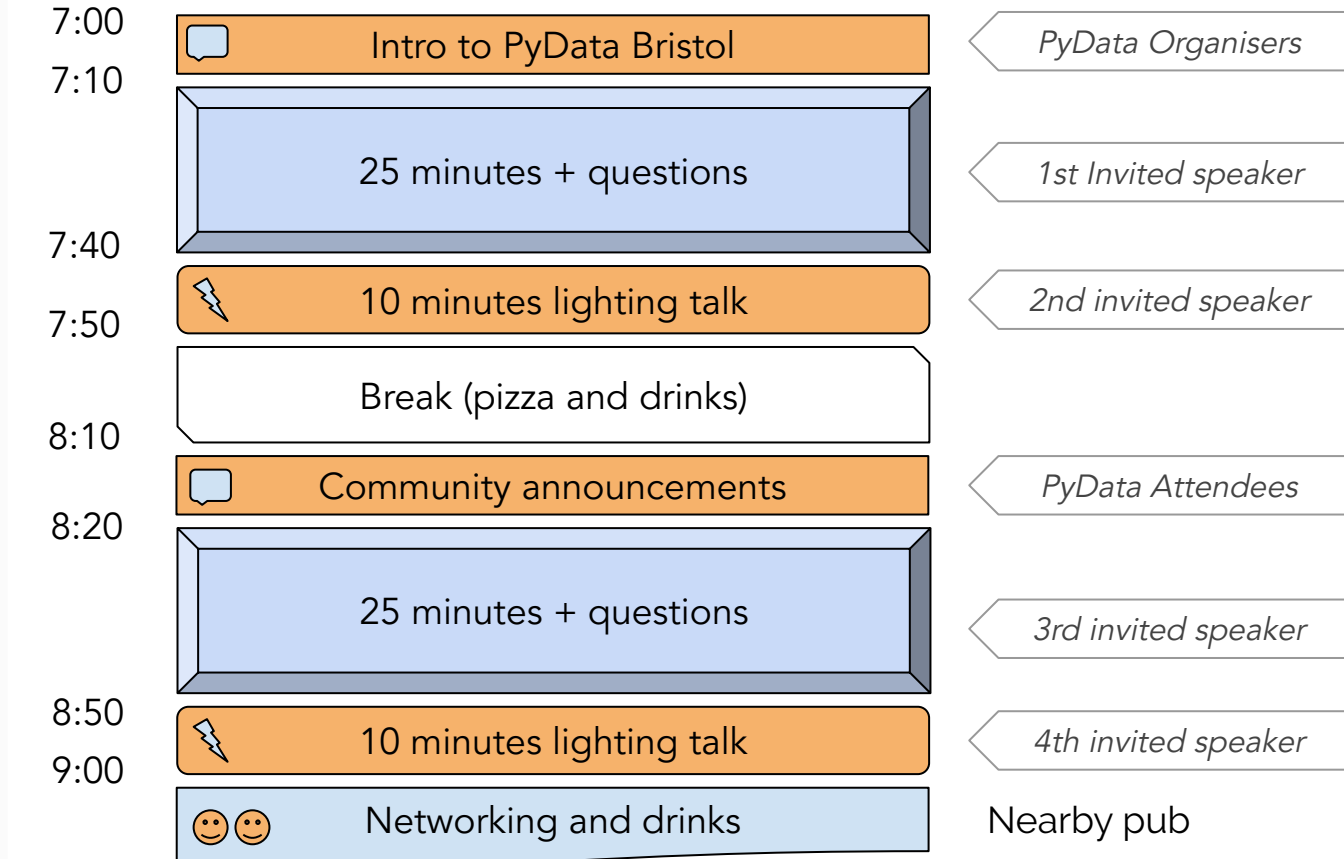


David
@dsg22



Bharat
@brtknr

PyData Bristol - Events' format



PyData Bristol and PyData Cardiff: 900+ members each!



PyData
Bristol




Part of **PyData – 172 groups** ?

PyData Bristol

📍 Bristol, United Kingdom
👤 909 members · Public group ?
👤 Organized by Frank K. and 6 others




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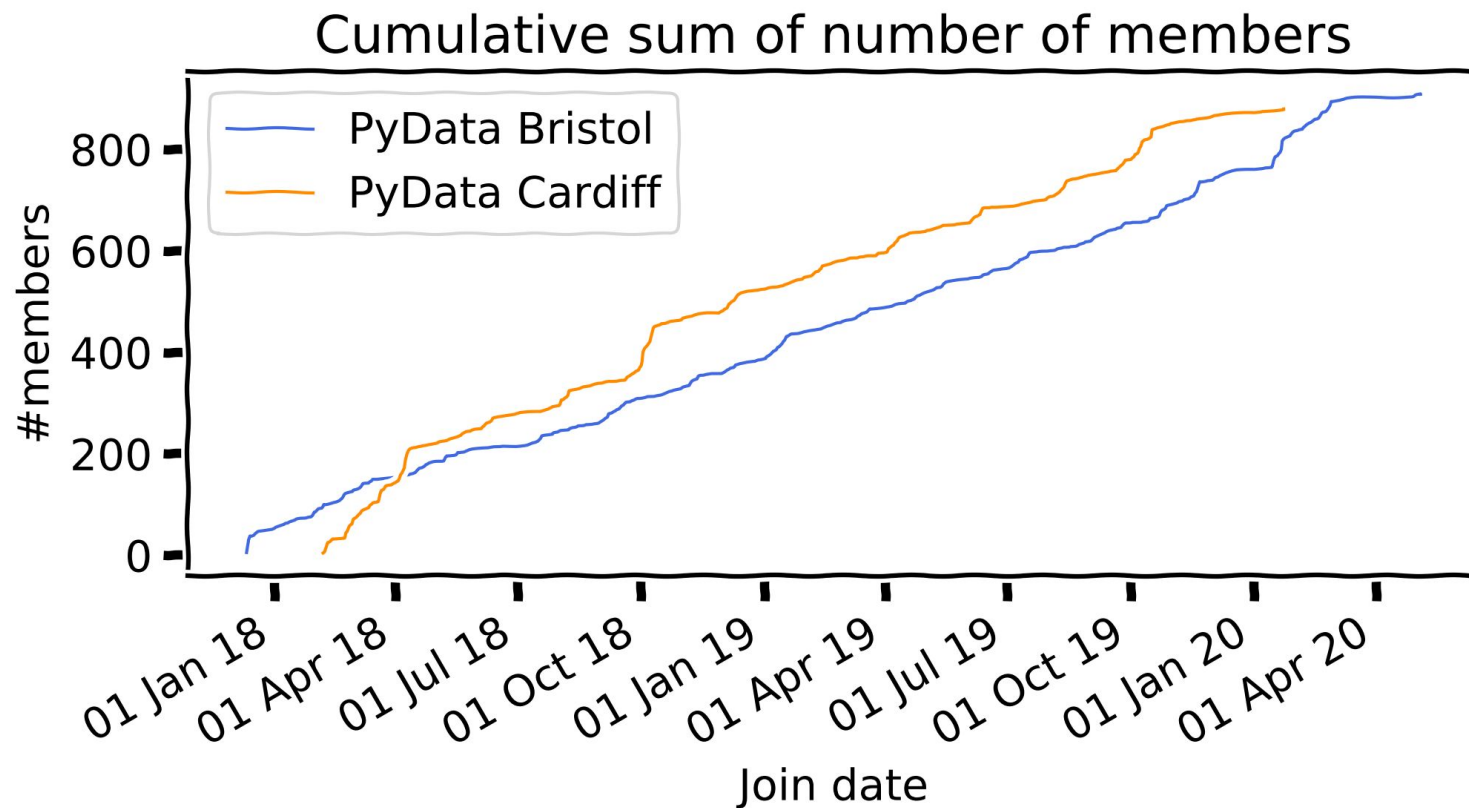
Part of **PyData – 172 groups** ?

PyData Cardiff Meetup

📍 Cardiff, United Kingdom
👤 946 members · Public group ?
👤 Organized by Tim V. and 4 others

Share:   

PyData Bristol vs Cardiff members



<https://github.com/pydatabristol>

📖 README.md

PyData Bristol Meetups

Links:

- [PyData Bristol on Meetup.com](#)
- [@PyDataBristol on Twitter](#)
- [PyData Bristol YouTube Channel](#)

Past meetups

You can find schedules, slides and recordings of previous events below.

- [1st PyData Bristol meetup March 2018](#)
- [2nd PyData Bristol meetup May 2018](#)
- [3rd PyData Bristol meetup Jul 2018](#)
- [4th PyData Bristol meetup Sep 2018](#)
- [5th PyData Bristol meetup Nov 2018](#)
- [Christmas joint event PyData Bristol and DBBUG meetup Dec 2018](#)
- [6th PyData Bristol meetup Jan 2019](#)
- [7th PyData Bristol meetup Mar 2019](#)

PyData Bristol Workshops

Links:

- [PyData Bristol on Meetup.com](#)
- [@PyDataBristol on Twitter](#)
- [PyData Bristol YouTube Channel](#)

Workshops

You can find slides and code for our workshops below:

- [Intro to Deep Learning with Keras \(20th Sep 2018\)](#)
- [Intro to Recurrent Neural Networks \(13th Nov 2018\)](#)
- [First Steps with Python \(28th Oct 2019\)](#)
- [Introduction to Python \(23rd Jan 2020\)](#)
- [First Steps with pandas \(27th Feb 2020\)](#)

Schedules, slides and recordings of previous events can be found in

Coming Soon - PyData Bristol Masterclasses!

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- 4 [Lights, camera, animate!](#)

The Coronavirus Curve - Numberphile



[Watch The Coronavirus Curve - Numberphile on YouTube](#)

```
In [1]: # This is where the magic happens. ✨
        %load_ext nb_black

        import matplotlib.image as mpimg
        import numpy as np
        import pandas as pd
        import seaborn as sns
        from IPython.display import Video
        from ipywidgets import interact, interact_manual
        from matplotlib import pyplot as plt
        from matplotlib.animation import FuncAnimation
        from scipy.integrate import solve_ivp
```

```
<IPython.core.display.Javascript object>
```

```
In [2]: %matplotlib inline
```

```
<IPython.core.display.Javascript object>
```

The SIR Model (of disease spread)

The three variables we'll use:

- **S = Susceptible** (people who are possibly able to get the disease)
- **I = Infected** (people who have got the disease)
- **R = Recovered** (people who are not infected any more, may be recovered, may be dead)

Goal: build up some simple naïve assumptions of how diseases spread & follow the mathematical consequences to make a prediction.

```
In [3]: ## Set up some initial conditions

        # Population of size 1, i.e. 100% (N is between 0 and 1)
        N = 1

        # Assume some Infected people (1% are Infected)
```

<https://twitter.com/pydatabristol>