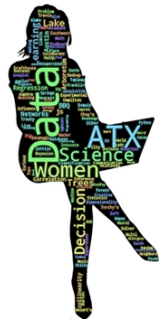


# Contributing to Open Source Python



Women in Data Science Meetup  
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## 2 words about myself

- Software architect and Data Scientist @ KBI-Biopharma (Modeling and Digital Transformation) since 2016.
- SciPy conference co-organizer since 2010 and regular Sprint co-chair.
- Former developer at Enthought, regular open source contributor (scipy/pydata & ETS stacks).
- Father and husband

# Open Source Software



# Why OSS works best?

The best tools are developed by the people who need it.

The quality of code is measured by the number of times it is exercised.

The best code is the code you don't have to write.

# Mis-conception #1

You can't contribute to open-source if you aren't already an experienced programmer.

# Everyone can contribute and benefit!

- Are you looking for work?
  - > Public contributions to open source are the best resume!
- Are you learning python or new packages?
  - > Become a power user!
- Are you an experienced programmer?
  - > Grow by working with some of the best devs: open source contributors!

## Mis-conception #2

Contributing to open-source is a lonely endeavor  
or a thing for communist hippies!

# Mis-conception #3

Open source is nice and good but should be restricted to “free time”.



# Many have embraced OSS

- 2M+ contributors world-wide in 2017 (infoworld.com)
- Top contributing companies:

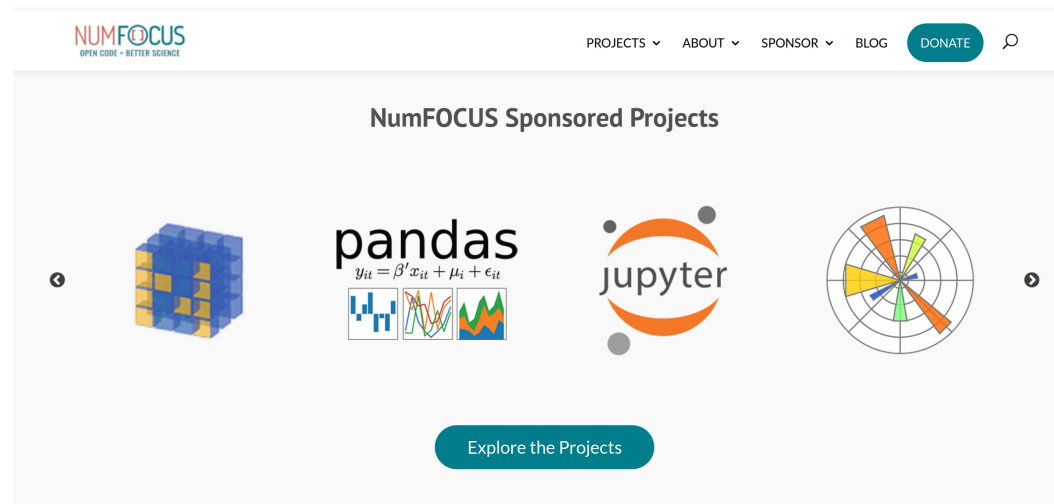
Rank	Company	Employees Contributing
1	Microsoft	4,550
2	Google	2,267
3	Red Hat	2,027
4	IBM	1,813
5	Intel	1,314
6	Amazon.com	881
7	SAP	747
8	ThoughtWorks	739
9	Alibaba	694
10	GitHub	676
11	Facebook	619
12	Tencent	605
13	Pivotal	591
14	EPAM Systems	585
15	Baidu	584
16	Mozilla	469
17	Oracle	455
18	Unity Technologies	414
19	Uber	388

# Mis-conception #4

Open source model means software is free.

# OSS needs to be supported and promoted

- Contribute time to projects, contribute money if you can (Numfocus member).
- Get your company to contribute time or money.
- Educate: explain to your boss that fixing something upstream is what makes the most sense to your company financially (in the long run).



# Tutorial

[https://github.com/jonathanrocher/sprint\\_tutorial](https://github.com/jonathanrocher/sprint_tutorial)

## By the end of this tutorial, you will...

- ... have had a review of how to contribute no matter your coding level or your package familiarity.
- ... have had a review of coding best practices to develop for and contribute quality code to the community.
- ... have contributed a PR to an open source package.

# More resources

- <https://pydata.org/>
- <https://scipy.org/> and <http://conference.scipy.org/>
- <https://numfocus.org/>
- <https://www.python.org/>
- <https://opensource.org/>