



Mozilla Science Lab: Resources & Community

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The Mozilla Foundation

The nonprofit Mozilla Foundation believes the Internet must always remain a global public resource that is open and accessible to all. Our work is guided by the [Mozilla Manifesto](#).

The direct work of the Mozilla Foundation focuses on fueling the movement for an open Internet. We do this by connecting open Internet leaders with each other and by mobilizing grassroots activists around the world.

The Foundation is also the sole shareholder in the Mozilla Corporation, the maker of Firefox and other open source tools. Mozilla Corporation functions as a self-sustaining social enterprise – money earned through its products is reinvested into the organization.

[Read the Mozilla Foundation's 2016-2018 Strategy »](#)

Foundation Programs

Working with people and communities all across Mozilla, the Foundation team is focused on fueling the open Internet movement. Our programs are focused in three areas:

Shape the agenda »

Mozilla has identified five key issues that are critical to build the open Internet we want:

- Privacy and Security
- Open Innovation
- Decentralization
- Web Literacy
- Digital Inclusion

Connect leaders »

Our nascent Mozilla Leadership Network finds, connects and provides learning opportunities for a new generation of leaders who will ensure the next wave of access, inclusion and opportunity online.

Rally citizens »

Mozilla works with allies to cultivate a global force of tens of millions of people prepared to support the rights of citizens of the web.

The Mozilla Foundation

[About the Foundation](#)

[2016-2018 Strategy](#)

[Licensing & Trademarks](#)

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Foundation Programs

[Key Internet Issues](#)

[Advocacy](#)

[Leadership Network](#)

Transforming Science

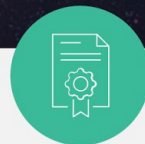
Mozilla Science Lab is a community of researchers, developers, and librarians making research open and accessible. We're empowering open science leaders through fellowships, mentorship, and project-based learning.



Maximizing access to papers, data, code, and materials so anyone can read and contribute



A community of researchers advocating for openness and collaboration



Open Science: A way for science to achieve its fullest potential



Resources = Tools, training, fellowships
Community = collaborators, support, exposure

COLLABORATION TOOLS

CODING

Code Review in the Lab

Code Review is a process of examining code to eliminate bugs and set a standard of quality. In these lessons, you'll learn how to establish a pattern of code review that will make your work more robust, reusable and reproducible, as quickly and easily as possible.

FELLOWS

PROJECT PLANNING

Creating a Sustainability Plan and Contributor Pathway

In this two-part activity, you'll first do some thinking and writing about creating a sustainable open science/open source project. Then you'll create a plan that will allow for an eventual project hand-off.

FELLOWS

OPEN COMMUNICATIONS

PROJECT PLANNING

Describing (and testing) your idea

Crafting a project description is a way to focus your idea and look at possible opportunities, related work, and weaknesses that may otherwise not be apparent. It's also a way to practice clearly articulating your idea, which often highlights areas that may need rethinking, or need to be pared down.

FELLOWS

OPEN COMMUNICATIONS

Developing an Elevator Pitch

Having a succinct, memorable way to explain what you're doing and WHY you're doing it can get people to stop, listen, and even share your passion. At the end of this exercise you should have a 30 second to one minute "elevator pitch" to get people excited about what you're doing.

COMMUNITY BUILDING

Getting Started with Codes of Conduct

This exercise will walk you through some of the considerations associated with anti-harassment policies, and help you put in place a plan and process for creating a welcoming, inclusive, harassment-free space.

COLLABORATION TOOLS

GitHub for Collaboration On Open Projects

Get comfortable with a Collaborative workflow in the GitHub interface. Practice adding resources to your repo, working with issues and labels, forking and branching, writing commit messages, making and reviewing pull requests, and merging changes.

Give you the tools, facilitate the training

<https://science.mozilla.org/resources>



mozilla
Science Lab
Working Open Workshop

ANNOUNCEMENT

EVENTS

FELLOWS

Working Open in Montréal!!!

by Stephanie Wright on Feb 7, 2017

Last February, we hosted our first Working Open Workshop (WOW) in Berlin to train project leads to prepare for a strong open project launch on our Projects page and the 2016 Global Sprint. After some tremendous feedback from participants of that event, I'm pleased to announce that we will be hosting another WOW on March [...]

Project management skill development

<https://science.mozilla.org/blog/working-open-in-montreal>

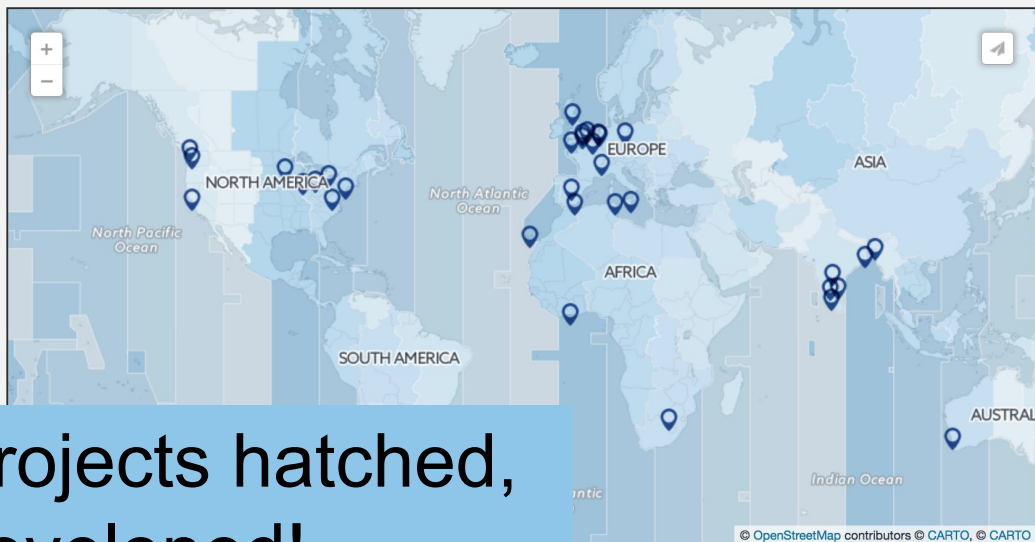
Mozilla Science Lab Global Sprint 2016

📍 Everywhere 🕒 Jun 2-3, 2016

Join us as we learn to collaboratively build projects transforming science on the web! This two-day sprint event brings together researchers, coders, librarians and the public from around the globe to hack on open science and open data projects in their communities.

About

Projects



Tools built, projects hatched,
& curricula developed!

Clear current search query, filters, and sorts

22 Open 0 Closed

Author

Labels

Milestones

Assignee

Sort

Intro to Git (Feat. Study Group Participant Demo) beginner git

#70 opened on Mar 17 by BillMills

Intro to Ruby beginner Ruby

#63 opened on Feb 12 by mbonsma

1

Spark in R intro beginner R

#59 opened on Nov 7, 2015 by painterly

2

Intro to Pandas beginner Python

#57 opened on Nov 5, 2015 by BillMills

Intro to Python beginner Python

#55 opened on Oct 30, 2015 by mbonsma

2

Basic Statistics beginner Data Science R

#53 opened on Oct 16, 2015 by mbonsma

3

Code Review For and By Scientists beginner Data Science Journal Club

#52 opened on Oct 10, 2015 by BillMills

1

Ten Simple Rules for Reproducible Computational Research beginner Data Science Journal Club

#51 opened on Oct 8, 2015 by BillMills

A Quick Guide to Organizing Computational Biology Projects beginner Bioinformatics


Journal Club

beginner

Genomics

Journal Club

Open Science



Schedule

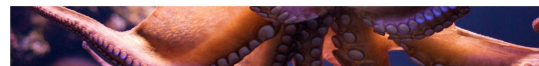
About

Help

Reproducible Quantitative Methods

Instructor Guide

RQM is a research methods course that focuses on modernizing the post-data collection portion of the scientific workflow. The course takes an approach that produces both conventional research products and trains students to make their work more efficient and reproducible. This handbook provides a framework for professors who would like to teach a 14-week class on reproducible quantitative methods, presuming an understanding of open workflows for publication, some intermediate R or (other command-line based data analysis software) skills, and basic GitHub operations and use.




Course Schedule

Part 1: Data	Week 1 - Introduction to reproducibility and open science frameworks
Weeks 1-4	Week 2 - Best practices for spreadsheets/ Learning to use data produced by others
How to handle your data to	

Github: What, Why, and Welcome

Friendly Github Workshop, UBC - Vancouver






Jared Hawkins for Boston Children's Hospital / Harvard Medical School

Biosurveillance using Social Media: Development of Curation Tools

A project for curating social media data used in an early detection system for disease epidemics as they emerge.

Help with: Python, Design, JavaScript




Ethan White for Utah State University

EcoData Retriever

EcoData Retriever is a platform to automate finding, downloading and tidying up ecological datasets.

Help with: Web Services, Databases, Python




Luke Coy, Adam Blaine, Stefan Neamtu, Matt Molkary for Rochester Institute of Technology

Software Discovery Dashboard

Creating an open source initiative capable of searching code hosting services for the benefit of the research community.

Help with: Design, JavaScript




Robert for

PMC-Ref

Find which references in an article are free to read in PubMed Central.


Help with: No



Mikey Garcia for UCLA

Collector


Experiments on the web made easy. We code, you do research.



Robin Haw for OICR

Reactome

Reactome is a free, open-source, curated and peer reviewed pathway database. Our goal is



About

Questions

Contributors

Resources

Open Advice

About

Open Advice provides agony aunt style advice to people who want to work openly but currently find themselves in a closed environment.

This website was created by [Kirstie](#) and [Danielle](#) in preparation for [OpenCon 2016](#).

We aim to help early career researchers do their best to be open even if they find that their supervisor doesn't support this goal.

Questions

Question	Before you have published, without sole ownership it is difficult to share. Here are some things that you can do:
What should I do if I don't have sole ownership of my research data?	When you can't share unpublished data but would like to promote your research you may be able to post analysis code or other peripheral, but non-specific materials.
	Once your work is published, it may be easier to share data. Check with your funding agency to see if you are required (or encouraged) to deposit the data once your

Community driven projects

o Might inspire some CERN open data projects

SEC Study group:
We are planning to organize event "Learn Git" from our study group
Link : <https://github.com/Syihet-Engineering-College/studyGroup/issues/9>
I am planning to translate this lesson : <https://github.com/BillMills/Rocker-tutorial/>

• New Lessons!

- Machine Learning Cheatsheets, maybe some new lessons?:
<http://www.kdnuggets.com/2015/07/good-data-science-machine-learning-cheat-sheets.html>
- Christie Bahlai / Michigan State University / Mozilla Open Science Fellow / @cbahlai
 - Data Re-use at WOW, and Data cleaning in class
 - http://mozillascience.github.io/working-open-workshop/data_reuse/
 - Latest Blog: <https://practicaldatamanagement.wordpress.com/2016/01/22/a-fundamental-difference-of-opinion/>
- Joey Lee / University of British Columbia / @leejoeyk-- I think Joey might sit this one out but maybe Zannah can fill in since she also developed this lesson!
 - Github at WOW
 - http://mozillascience.github.io/working-open-workshop/github_for_collaboration/
 - Latest Blog: <http://k-lee.com/entering-sprint-land/>
 - Madeleine Bonsma / University of Toronto / @mbonsma
 - Intro to Ruby: https://github.com/mbonsma/ruby_tutorial
 - The 'class' structure in Python: https://github.com/mbonsma/python_tutorial
 - We also did some re-runs of other groups' lessons - very successful!

• Updates from last call

- Is there a twitter list that includes every study groups' twitter accounts?
 - <https://twitter.com/MozillaScience/lists/mozstudy>
- Hashtag ideas:
 - #mozstudy
 - @MozillaScience (if you want us to retweet right away)
- Way of aggregating events to share out on MSL site (or your own) - Abby
 - Thea (SFU) wrote a script to pull events from the GitHub repo. Maybe we could do a master one for all the Study Groups? - Amy link to script? <https://github.com/miniscienceir/studyGroup/tree/gh-pages/scripts>

VidyoDesktop™ - kaitlin@mozillafoundation.org@v.mozilla.com

Search Participants

Participants: 10

- (Guest) "Schaefer Robert"
- (Guest) Ancon
- Arliss Collins
- Aurelia Moser**
- (Guest) Christie
- (Guest) Harry Smith
- (Guest) Igor Babuschkin
- (Guest) Madeleine
- (Guest) Tom
- Zannah Marsh

Chat

Rob Schaefer: so close! 10:05

tim: clicking the vidyo link it says "this is not a valid room link" :(10:11

Igor: strange, it worked for me :/ 10:12

Aurelia: oh no! maybe call in : UK(London: +44 (0)207 855 3000, extension 92, 99770 10:12

Rob Schaefer: Can someone stream to youtube like we had from the community meeting 10:12

Rob Schaefer: oh, i forgot about phones! 10:12

zannah: If you are not named in the pad, please write your name in the top right! 10:12


Achintya: Travelling without headphones, so I'll have to get updates later from Igor and Tim. 10:13

Aurelia: @rob I'm recording in quicktime, not streaming unfortch, I'm sorry! I'd like to set this up for the next call though 10:14

Rob Schaefer: no prob, im on the telephone right now listening 10:15

Aurelia: "waves" Nifras! 10:16

Bolaram Paul: can i talk 10:20



Engaged remote network of new BFFs

Modular and universal bioinformatics

Bionode provides pipeable UNIX command line tools and JavaScript APIs for bioinformatic analysis workflows.

[Find out more >](#)



FEBRUARY 22
UNIVERSITY OF MINHO
BRAGA, PORTUGAL

BIOINFORMATICS
OPEN DAYS 2017

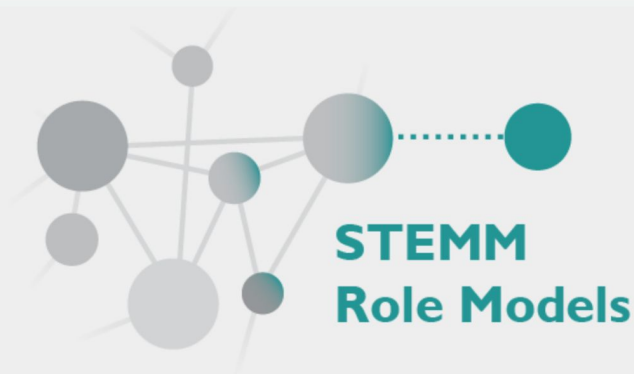
BIONODE WORKSHOP

BRUNO VIEIRA
WURMLAB

SEE MORE



Bruno Viera / @bmpvieira / bionode.io



Inspire future generations by providing the most exciting and diverse speakers for your conference.

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Would you like to help us develop the STEMM Role Models site?

Help with layout, content (text, images) and spelling mistakes all welcome! We'd love to hear your feedback.

Please [contact us](#) for more information on how to get involved.

Kirstie Whitaker / @kirstie_j / stemmrolemodels.com



Not Connected




OPENEXP

OpenEXP is an open-source platform for running experiments with jsPsych and collecting EEG data with OpenBCI hardware.



LOG IN

Teon Brooks / @teon_io / github.com/openexp/OpenEXP

 [daniellecrobinson](#) / [Data-Rescue-PDX](#)

Unwatch 4

Star 14

Fork 0

<> Code

Issues 31

Pull requests 0

Projects 0

Wiki


Pulse




Graphs

Settings

Branch: master [Data-Rescue-PDX / README.md](#)

Find fileCopy path

 [daniellecrobinson](#) more attempts at making list readable 47dc5af 3 days ago

3 contributors   

130 lines (87 sloc) | 11.2 KB

RawBlameHistory

Data-Rescue-PDX

Volunteers! Welcome and thank you for spending your time with us.

This event is a volunteer effort to contribute to data back up efforts. By attending you agree to our Code of Conduct <http://confcodeofconduct.com/> which we will enforce.

To chat after tonight, join the Science Hack PDX Slack: <https://sciencepdxslackin.herokuapp.com/>

Citizen Science Metadata Curation Workshop!

There is currently no centralized storage and access system for scientific research datasets. Scientific data is scattered across the internet, where it may be deposited on hard to find servers without meaningful documentation to explain what the data is, who created it, the context in which it was created, and how it should be discovered and used by other researchers.

Throughout the DataRefuge community, many parallel efforts are working to ensure that important datasets are discovered, nominated for archiving, and safely backed up. However, many of the datasets in the archiving queue do not have machine readable, standard metadata critical to the archiving process.



Danielle Robinson / @daniellecrobins /
<https://github.com/daniellecrobinson/Data-Rescue-PDX>



Mozilla Science Lab: Resources & Community

Global Sprint, June 2017

Study Groups, start your own!

Working Open Workshops, Spring 2017!
Montreal, West Coast, Europe

Call for Fellowships, Spring 2017!