



# Open Science as a Movement:

Mozilla's efforts to build community  
and open leadership in science

11 September 2018

Stephanie Wright  
Senior Program Manager  
Open Leadership & Events



# Agenda

1. Who Am I?
2. Why Mozilla?
3. What is Mozilla Science?
4. Our Programs
5. Going Beyond Science
6. Q&A

# Hi! I'm Steph!

WRF Data Science Studio  
eScience Institute



Data scientist office hours



TODAY  
(Th + Fr)

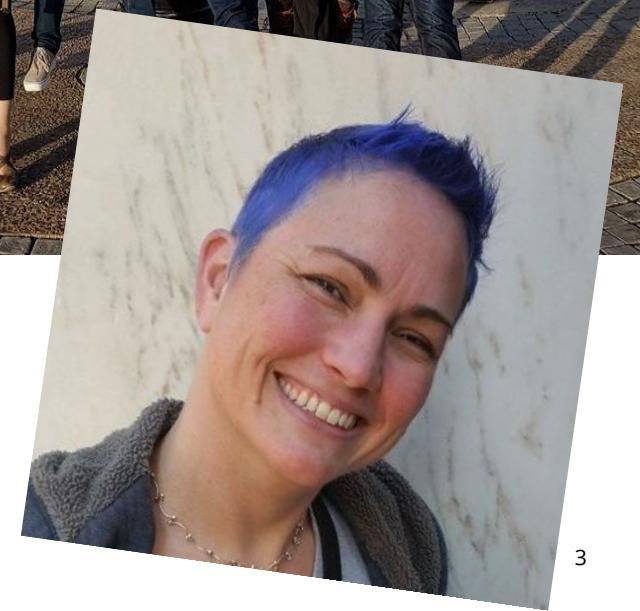
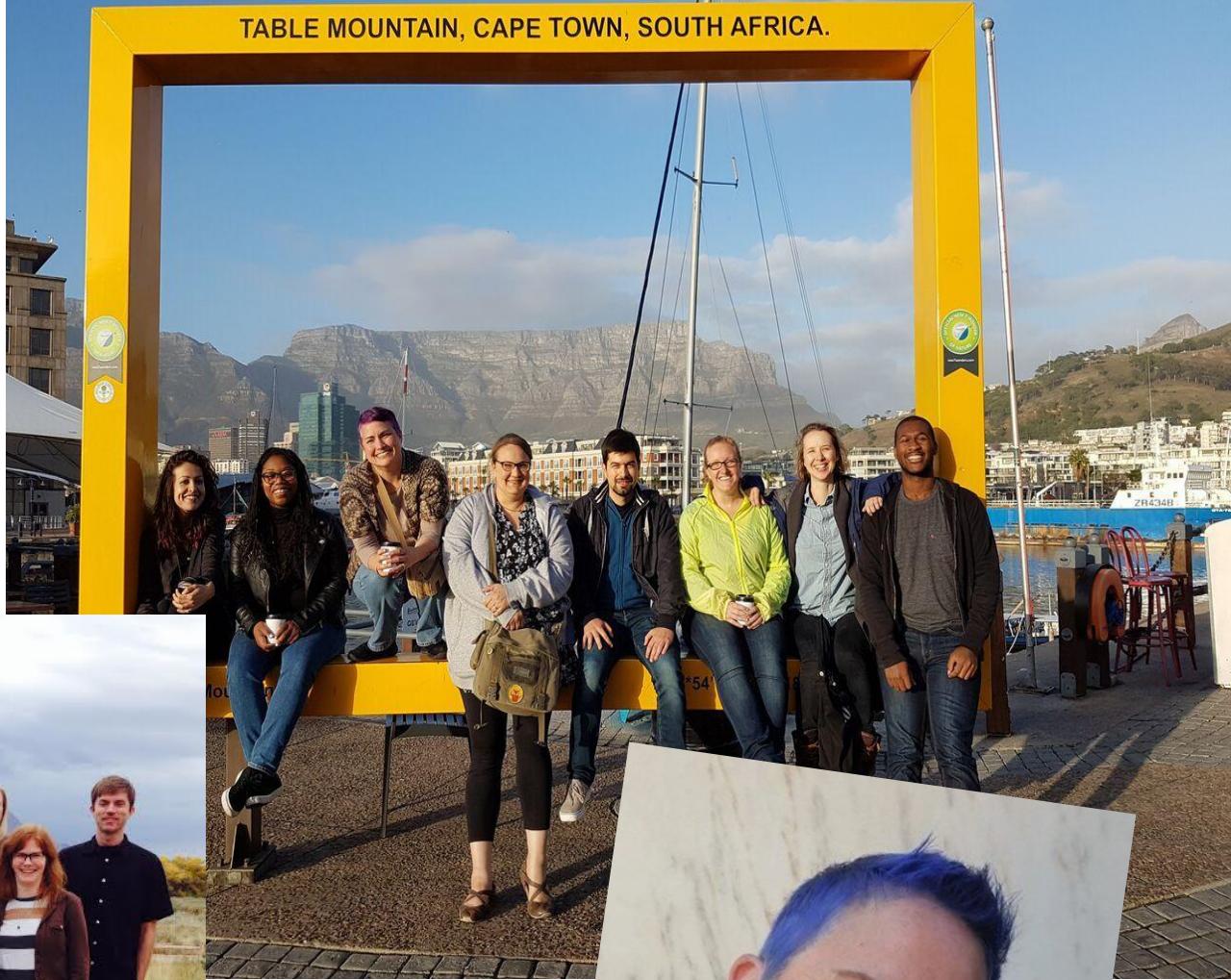


Seminar Room

Follow  
#MOZsprint  
Join for an hour...  
Join for a day  
#openscience in the wild



TABLE MOUNTAIN, CAPE TOWN, SOUTH AFRICA.



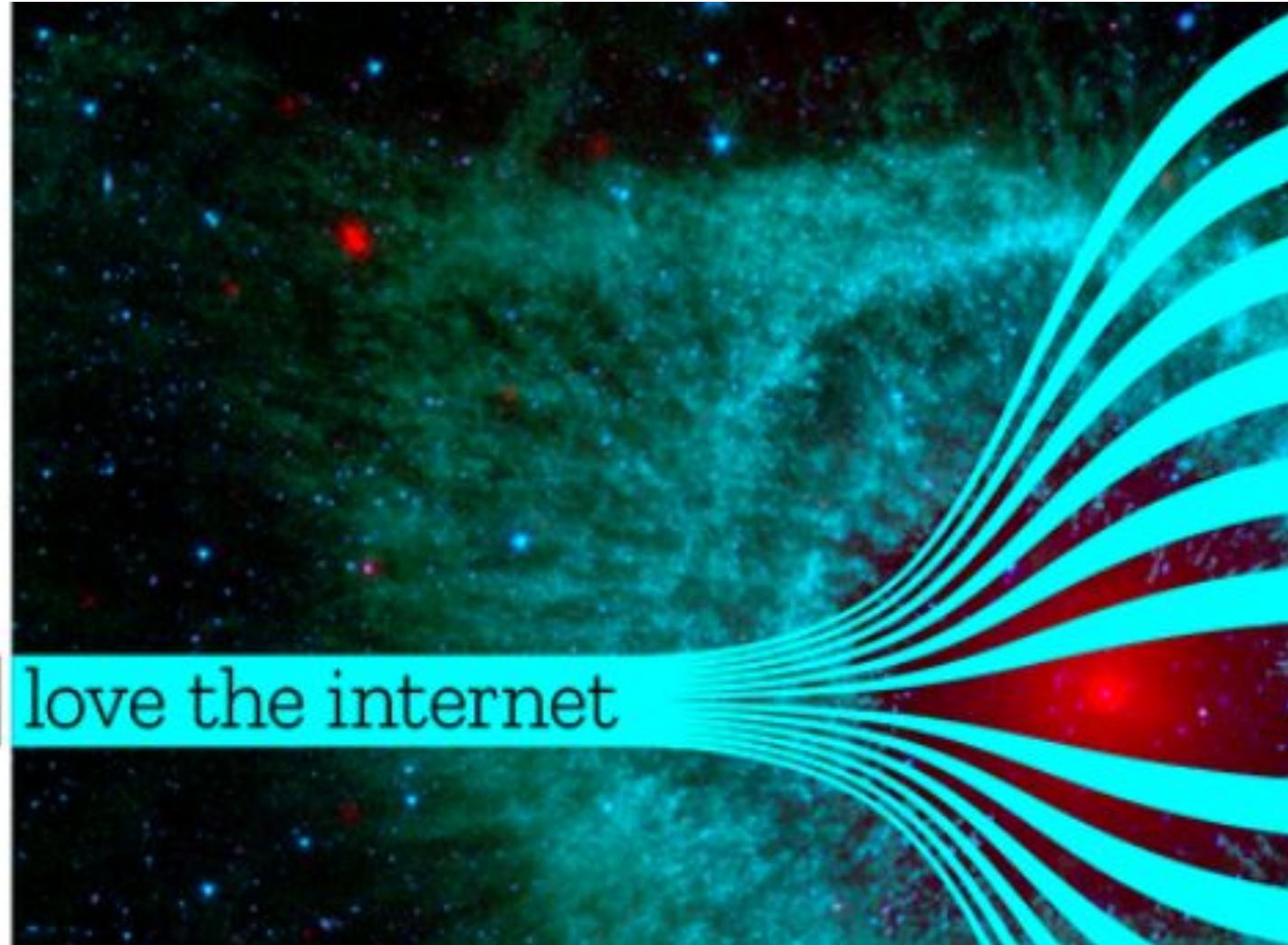
moz://a

Mozilla

<https://foundation.mozilla.org/>

**Our mission is to ensure the Internet is a global public resource, open and accessible to all**

**moz://a**



<https://internethealthreport.org/2018/>

# Mozilla Science

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

## 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.*

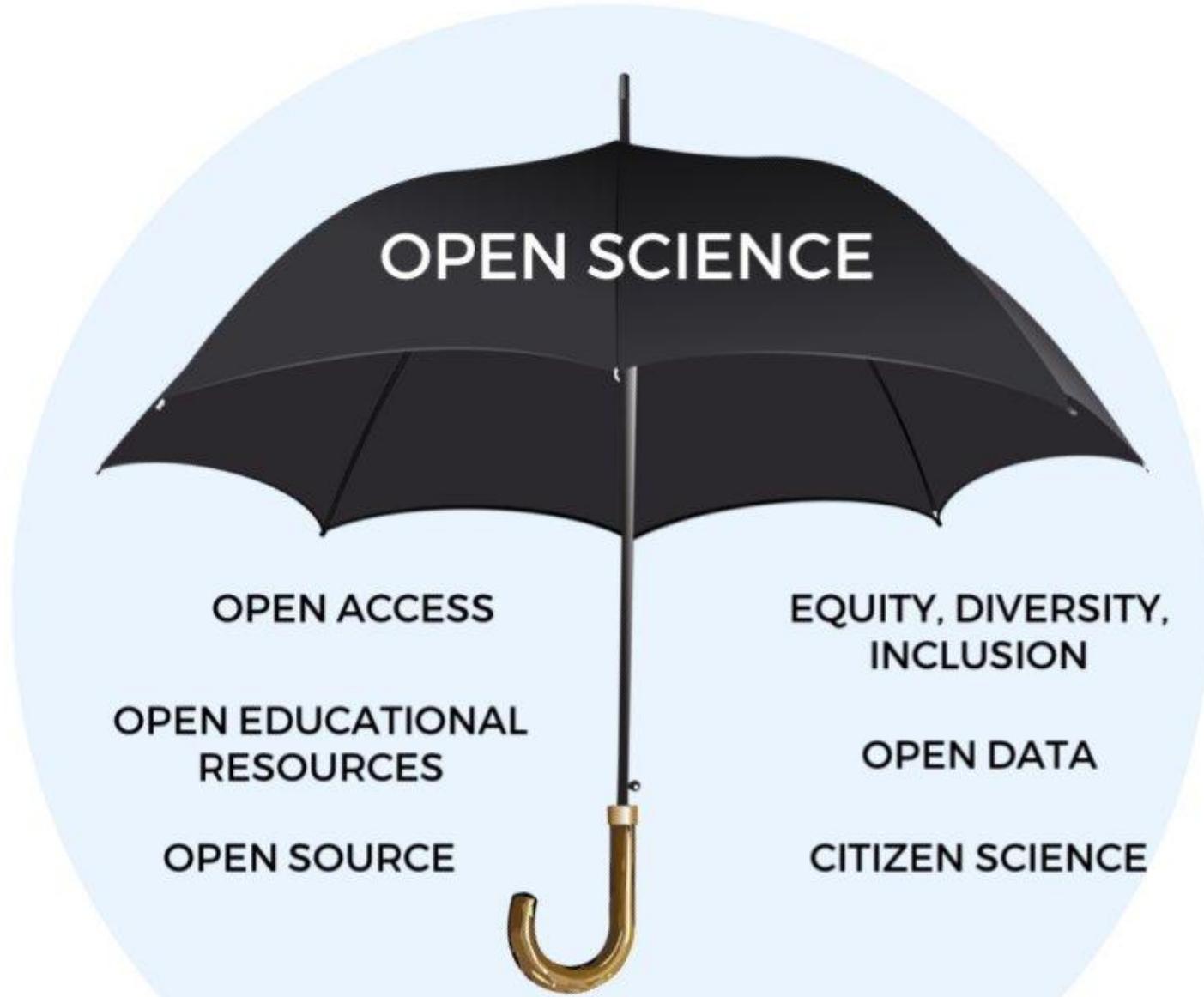


Maximizing access to papers, data, code, and materials so anyone can read and contribute

A community of researchers advocating for openness and collaboration

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

# Open Science



**What do we mean when we talk about Open Science?**

Image courtesy of Robin Champieux

# Programs



## Announcing the Software Carpentry Foundation

by Kaitlin Thaney on Oct 8, 2014

**Software Carpentry** has been around for a long time, a labor of love of Greg Wilson and many others. With support from the Sloan Foundation, the Mozilla Science Lab has helped it to grow such that, in the past year, we've reached more than 4,000 researchers and librarians worldwide and trained over 195 instructors (from the sciences and library sciences) who carry the torch and run Software Carpentry workshops on their own. The expansion of the community makes us excited to announce the creation of an independent Software Carpentry Foundation. This new organization is dedicated to fostering the growth and evolution of Software Carpentry work while giving the hundreds of contributors and institutions who've helped shape it a direct role in governing the project. Greg, naturally, is stepping into the project lead role.

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Software  
Carpentry

B I U S None  
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• Shauna Gordon-McKeon / @shauna\_gm  
• Steph Wright / MSL / @snewf  
• Madeleine / University of Toronto / @mbonsma (not on call due to meeting, but on etherpad!)  
• Arliss / Mozilla Science Lab / @arlisscc99  
• Nifras / University of Jaffna / @nifras\_tweety  
• Amy / UBC / @minisciencegir  
• Birgit Fleischmann / @efelei  
  
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Fun question: What's the coolest thing you saw on the internet this month?  
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• Rob / fun with new top level domains: <http://endless.horse/> < amaze  
• Madeleine via @RaoOfPhysics / <https://github.com/cjohnson/neural-style> (trending on GitHub)

Community  
Calls

## Find a Study Group



Africa

Australia

Canada

Study  
Groups

# Programs

## 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



Global  
Sprint

Fellows for  
Science



Richard Smith-Unna (@blahah404) is a computational biologist at the University of Cambridge. He is currently focused on understanding protein folding and function in the context of the Human Proteome Project. He develops and contributes to a wide array of bioinformatics, including the Content Mine, Solvers

Learn about these projects and more on [his blog](#).



Christie Bahalai (@cbahala) is an insect ecologist at the University of California, Berkeley. She works with the NSF-funded Long Term Ecological Research program to understand how we can use big(ish) ecological data and open data to improve our understanding of agricultural systems. She's an instructor with Software Carpentry about open science and data management called "Data Carpentry".

Learn about these projects and more on [her blog](#).



Joey Lee (@leejoeyk) is a geographer and computer scientist at the University of British Columbia. She is passionate about technological literacy and the environmental impacts of technology. She is co-author of "The Big Atlas of Data Visualization" project ([video here](#)). She is currently based in Vancouver, BC, Canada, researching and teaching at the University of British Columbia (e.g. Maptime Vancouver), and exploring projects a

Learn about these projects and more on [his blog](#).



Jason Bobe (@jasonbobe) is Associate Professor in the Department of Genomics and Multiscale Biology at Mount Sinai Hospital and the University of Toronto, and Stephen Friend, a research study that aims to identify genetic risk factors for cancer. He has founded DIYbio. With co-founder Madeleine Ball, he has created a platform for people to share their data with researchers that practice precision medicine. He coordinates the Global Network of Personal Genomes.

Learn about these projects and more on [his blog](#).

## Mozilla Open Leaders

# Work Open, Lead Open

Join a cohort of open leaders fueling the Internet Health movement. Receive mentorship and training through Mozilla in this 14-week online program on working open.

Our sixth cohort of Mozilla Open Leaders starts in September 2018! We're looking for Open Leaders to fuel the Internet Health movement by designing and building projects that empower others to collaborate within inclusive communities.

Applications are closed for Mozilla Open Leaders 6.

## Stories from Open Leaders



Alecia Kuhl,  
StoryEngine



Mark Sta Ana, Rust  
Content-o-Tron



Gracielle Higino,  
IGNITE



Fiona Cullinan,  
Observed.City

Open  
Leadership

# Working Open Workshop (WOW)



Schedule

Handouts

Notes

Help

## Schedule

The schedule can be found in the workshop repository [here](#), the following handouts are ordered according to the scheduled session times.

## Presentations

Each session has a ten-minute presentation. Slides for these presentations are linked below.

1. [README and Project Communication](#) - How they first hear about the project or group.
2. [Roadmapping](#) - How to plan your project schedule and priorities.
3. [Contributor Guidelines](#) - How they first participate or contribute.
4. [GitHub for New Project Leads and Contributors](#) - How to use GitHub as a collaborative platform.
5. [Code of Conduct](#) - How to control behavior and the tone of projects.
6. [Event Planning](#) - How to plan activities that support and build your project.
7. [Personas and Pathways](#) - How to plan for your project users and stakeholders.
8. [Open Data and Data Reuse Plans](#) - How to manage data in your project.
9. [Open Leadership Cohort & Closing](#) - About the Open Leadership Cohort.

## Handouts

### Sessions

Handouts will provide participants with post-presentation exercises.

1. [README and Project Communication](#)
2. [Roadmapping](#)



# Mozilla Fellowship Program

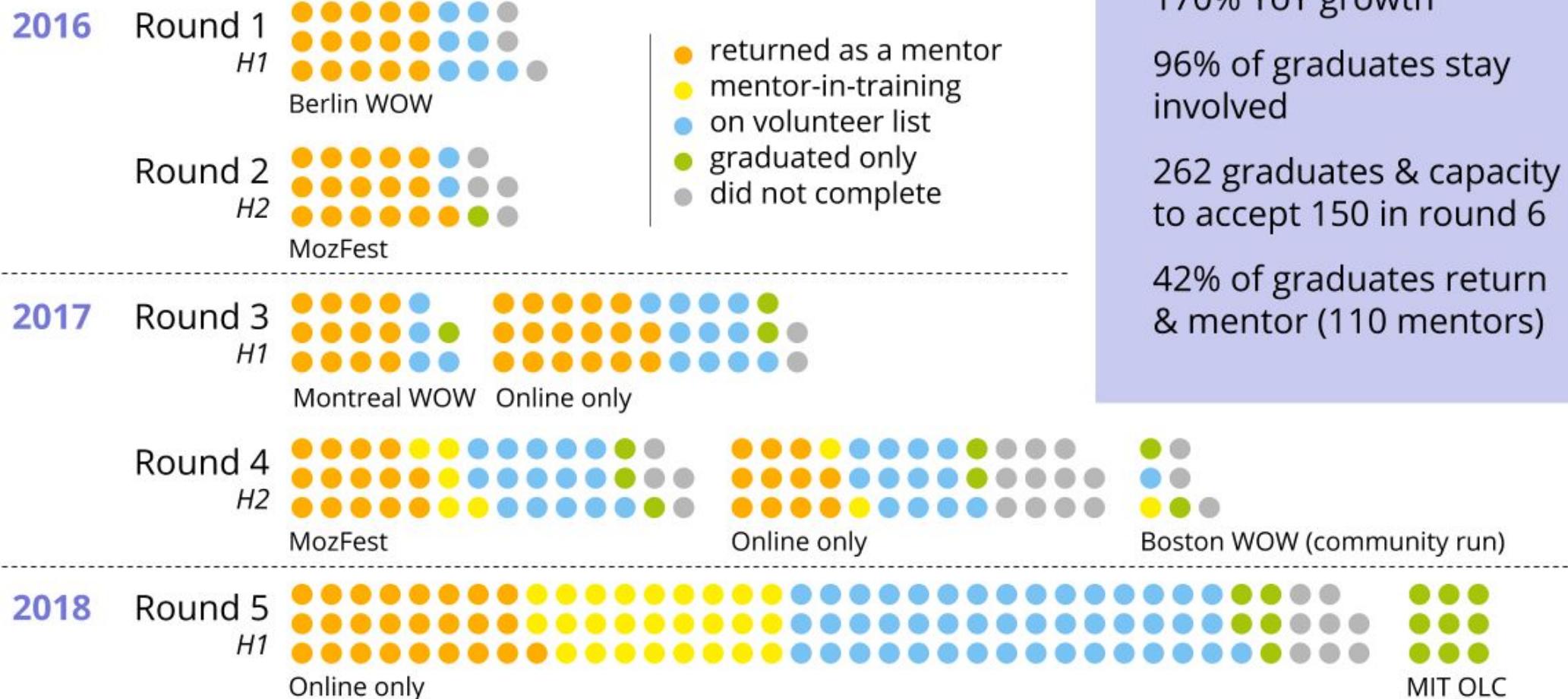


- Media
- Open Web
- Science
- Tech Policy

# Open Leadership Mentoring

## Fueling the Movement

### We're growing & retaining our graduates



# WOW Austin (ATX)



Location

Purpose

Roadmap

Schedule

Notes

Help

Participants

## Location

IMPACT HUB – [North Lamar](#)

5540 NORTH LAMAR, AUSTIN, TX 78721



## POP: Purpose, Outcomes & Process

### Purpose

- **Mozilla:** Train Mozilla Network members who will advance our mission in alignment with our core values.
- **ATX:** Develop local Open Leaders who can support their Austin open communities and lead future workshops.

### Outcomes

- Improve the quality of Mozilla Working Open Workshops (WOW) through feedback from local community members and experts in the field;
- Improve the quality of select, existing open projects in Austin through strategies shared and

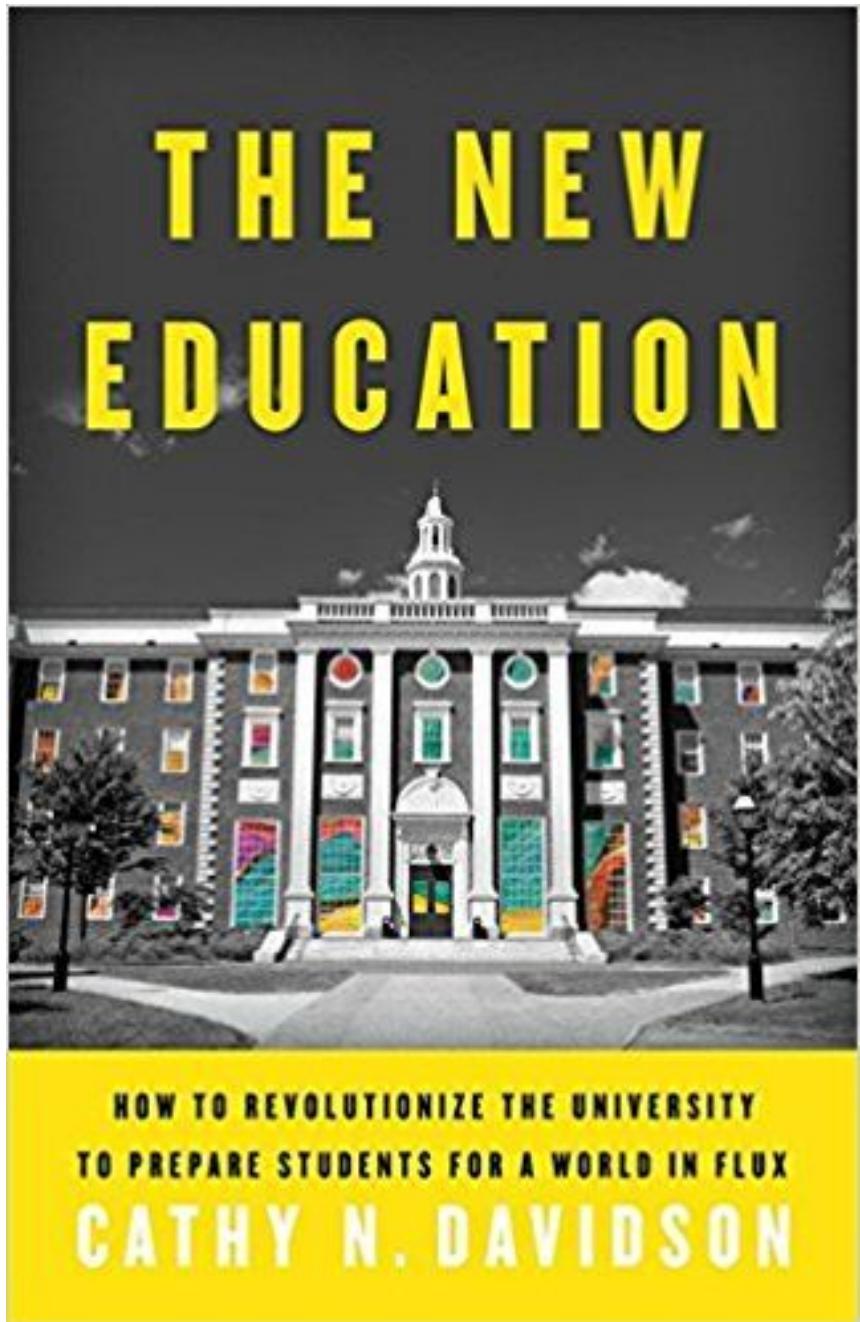
# Global Sprint Overview



**Mozilla's Global Sprint is a fun, two-day collaborative hackathon. A diverse network of educators, engineers, artists, scientists, and many others come together in person and online to build projects for a healthy Internet.**

- Closed **270** pull requests
- Opened **300** pull requests
- Created **2240** comments & issues
- Pushed **1116** commits
- **55%** increase in contributors

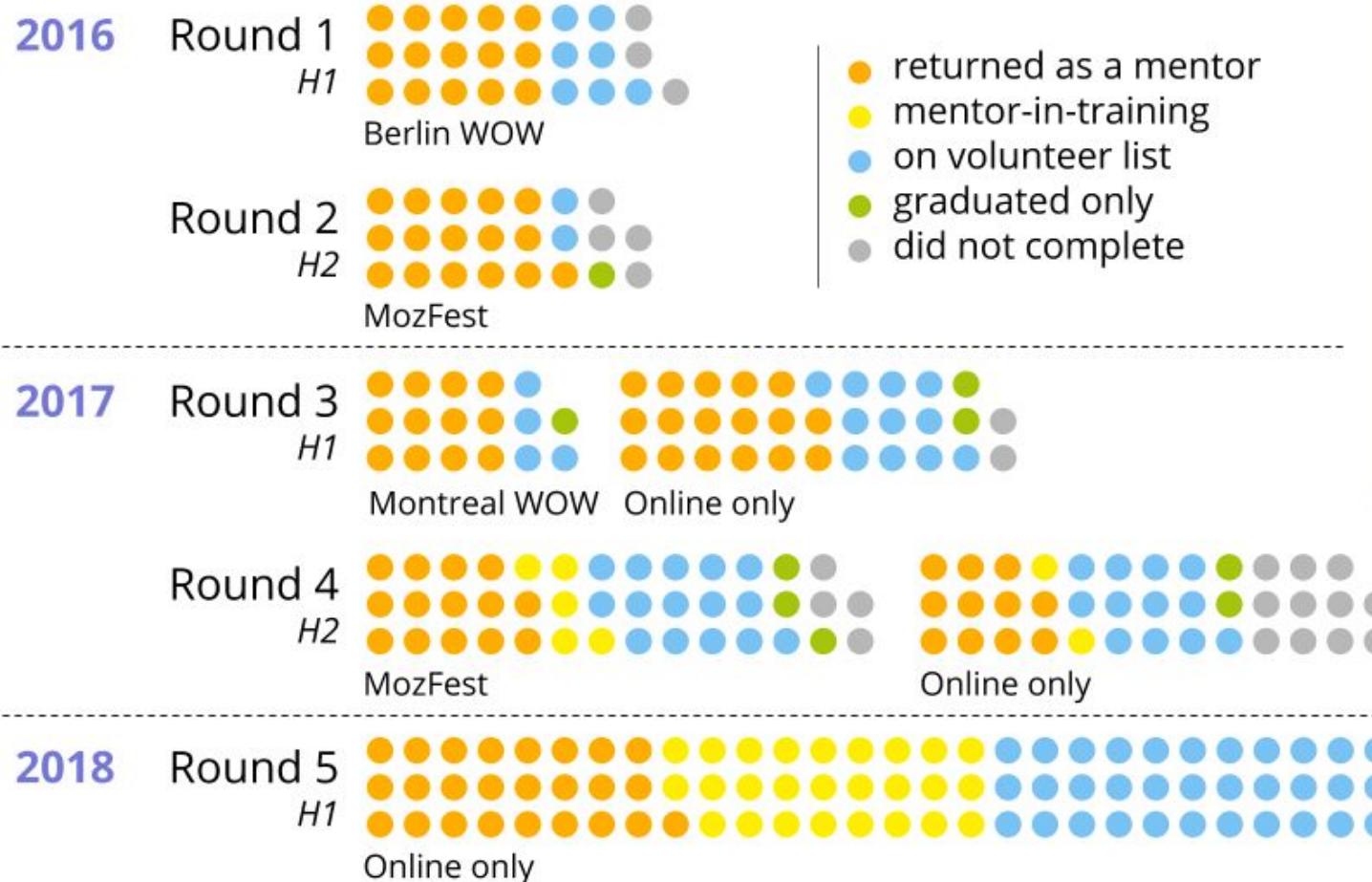
# The New Education: How to Revolutionize the University for a World in Flux



# Open Leadership Mentoring

## Fueling the Movement

### We're growing & retaining our graduates



## Highlights

- 170% YoY growth
- 96% of graduates stay involved
- 262 graduates & capacity to accept 150 in round 6
- 42% of graduates return & mentor (110 mentors)



# miniWOWs



Schedule

Notes

Help



## Welcome to miniWOW PDX!

Based on the Mozilla Science Lab's Working Open Workshops in Berlin (2016) [http://bit.ly/moz\\_wow](http://bit.ly/moz_wow) and Montreal (2017) <https://mzl.la/2017wow>

Registration closes on April 7, 2017! To register, please fill out this [form](#).

*Do you have an idea for a project that will help the scientific community or impact the way scientists work? It could be software, an advocacy project, an effort to bring science to the people, or something else entirely. Getting a project off the ground is daunting, and most of us aren't trained in project management and community building skills.*

# Programs



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Software  
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Community  
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Study  
Groups

B I U S None

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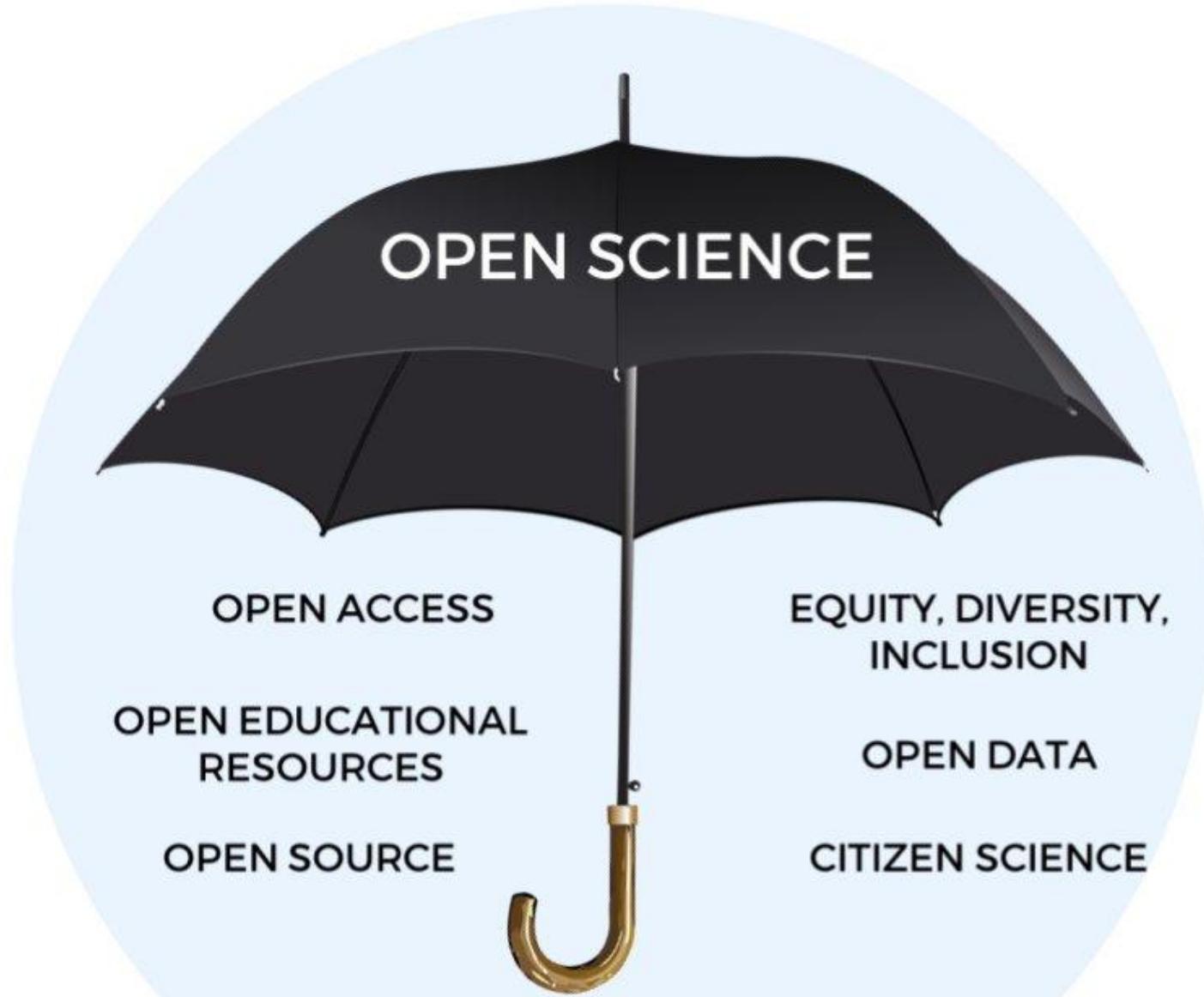


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Australia

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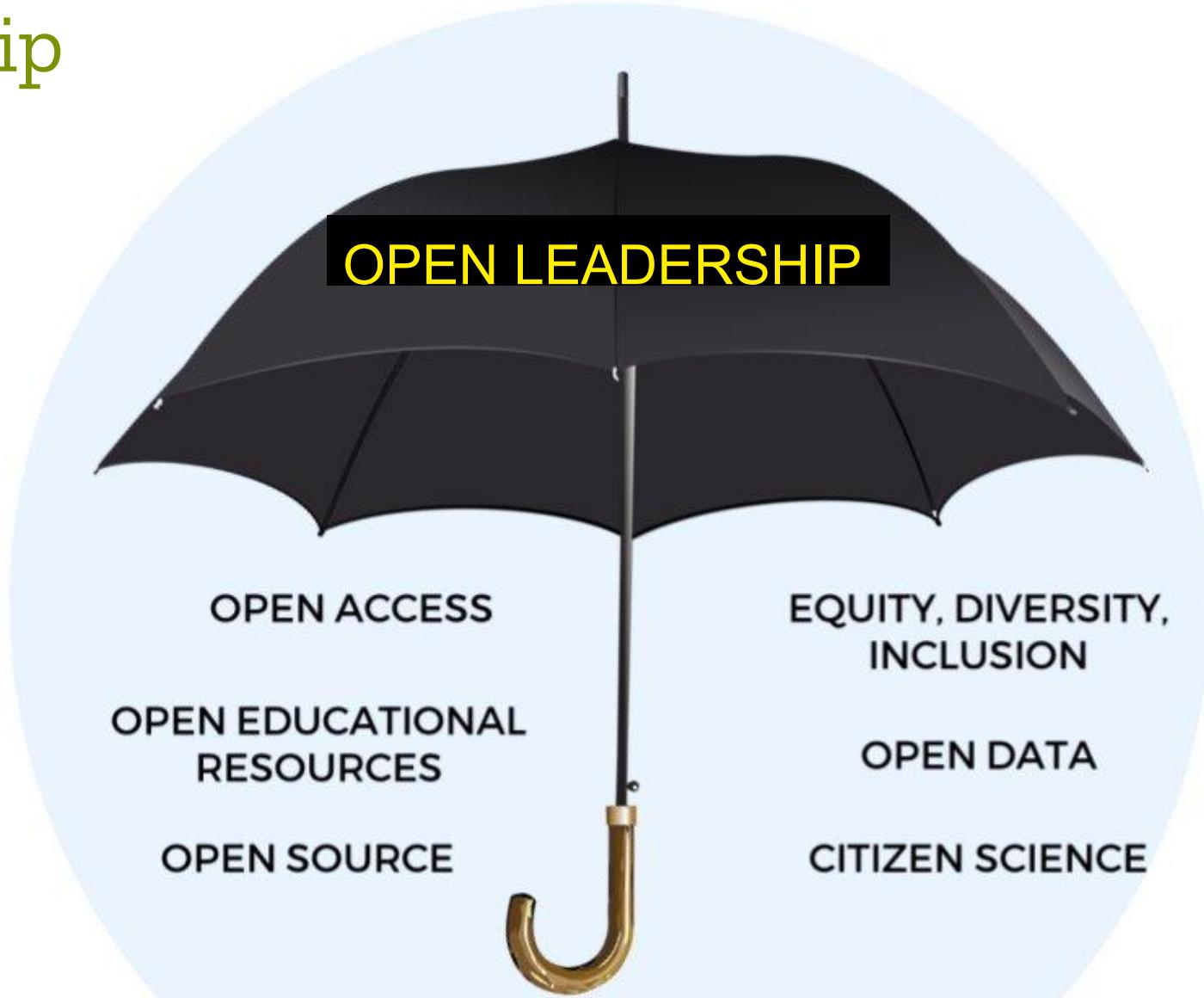
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Image courtesy of Robin Champieux

# Open Leadership



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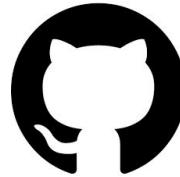
Thank  
You!  
Questions?  
Want to  
join in?

**moz://a**



@shefw  
@MozOpenLeaders

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@stephwright

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steph@mozillafoundation.org  
leadopen@  
mozillafoundation.org

**<https://foundation.mozilla.org>**