Introduction to Free and Open Source Software

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What is Free (Libre) Software?

“Free software” means software that respects users' freedom and community. Roughly, it means that **the users have the freedom to run, copy, distribute, study, change and improve the software**.

A program is free software if the program's users have the four essential freedoms: [1]

- The freedom to run the program as you wish, for any purpose (freedom 0).
- The freedom to study how the program works, and change it so it does your computing as you wish (freedom 1). Access to the source code is a precondition for this.
- The freedom to redistribute copies so you can help others (freedom 2).
- The freedom to distribute copies of your modified versions to others (freedom 3). By doing this you can give the whole community a chance to benefit from your changes. Access to the source code is a precondition for this.

Source: https://www.gnu.org/philosophy/free-sw.html

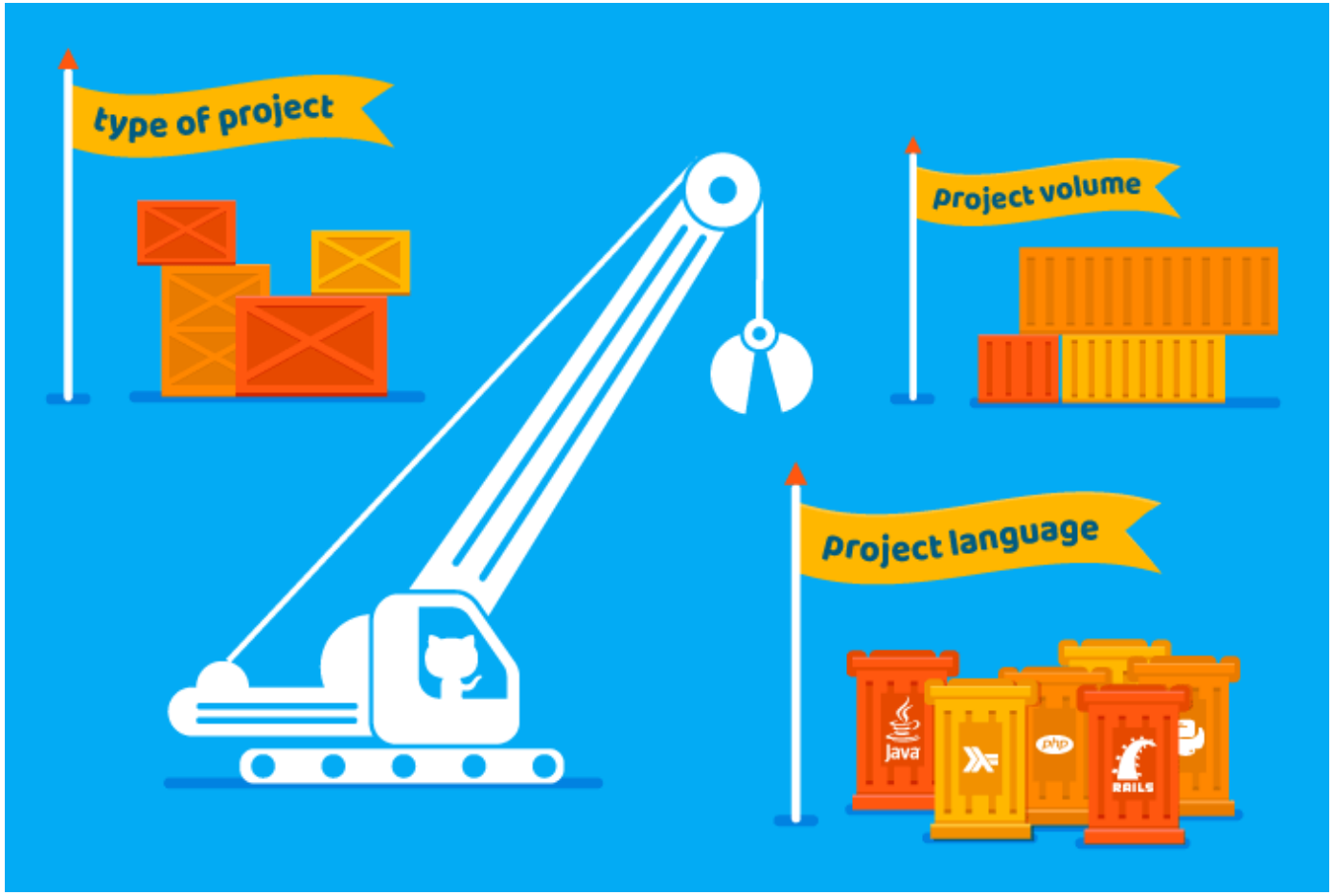
What is Open Source Software?

Open source doesn't just mean access to the source code. The distribution terms of open-source software must comply with the following criteria:

1. Free Redistribution
2. Source Code
3. Derived Works
4. Integrity of The Author's Source Code
5. No Discrimination Against Persons or Groups
6. No Discrimination Against Fields of Endeavor
7. Distribution of License
8. License Must Not Be Specific to a Product
9. License Must Not Restrict Other Software
10. License Must Be Technology-Neutral

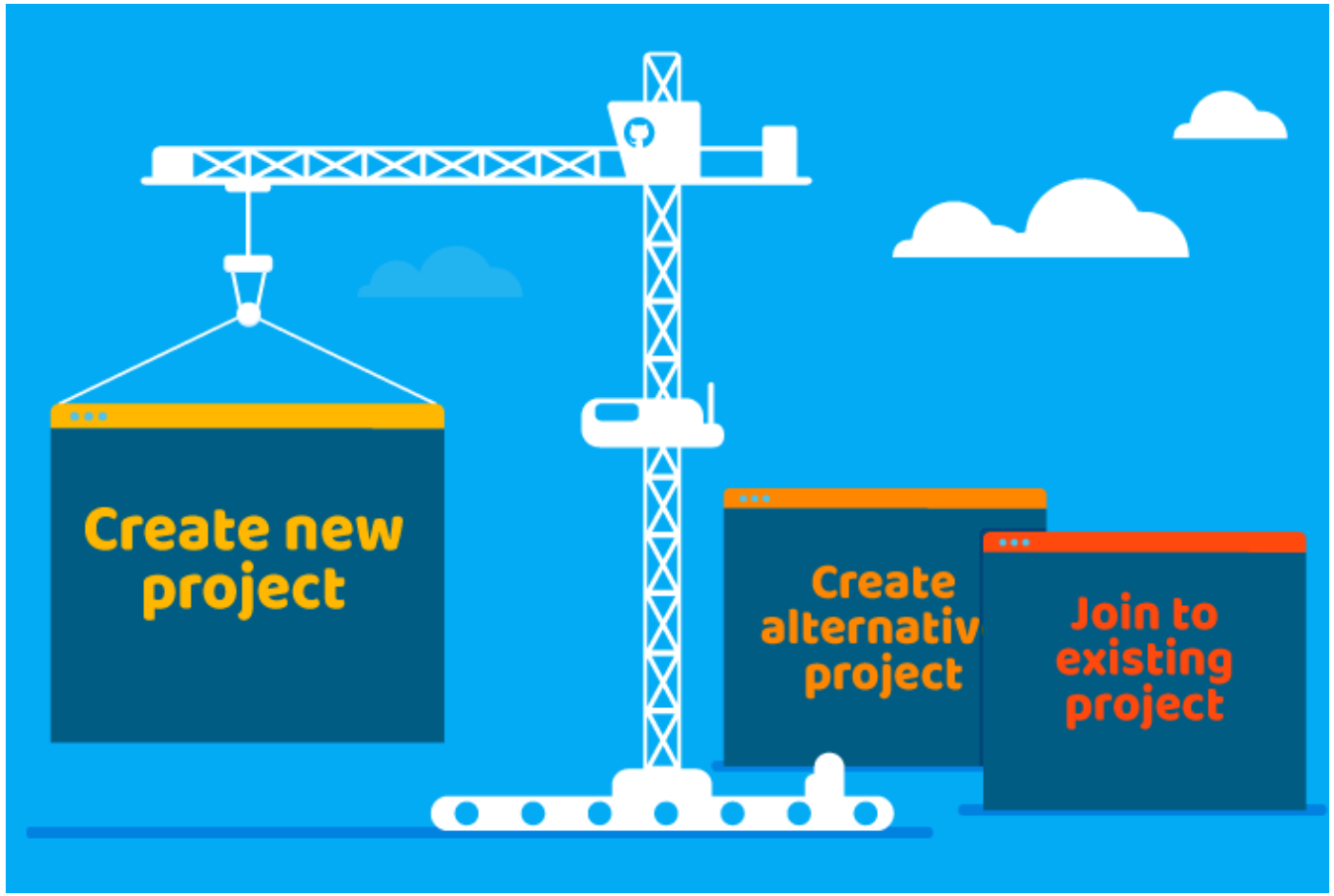
Source: https://opensource.org/docs/osd

Before you start



Source:
https://rubygarage.org/blog/how-contribute-to-open-source-projects

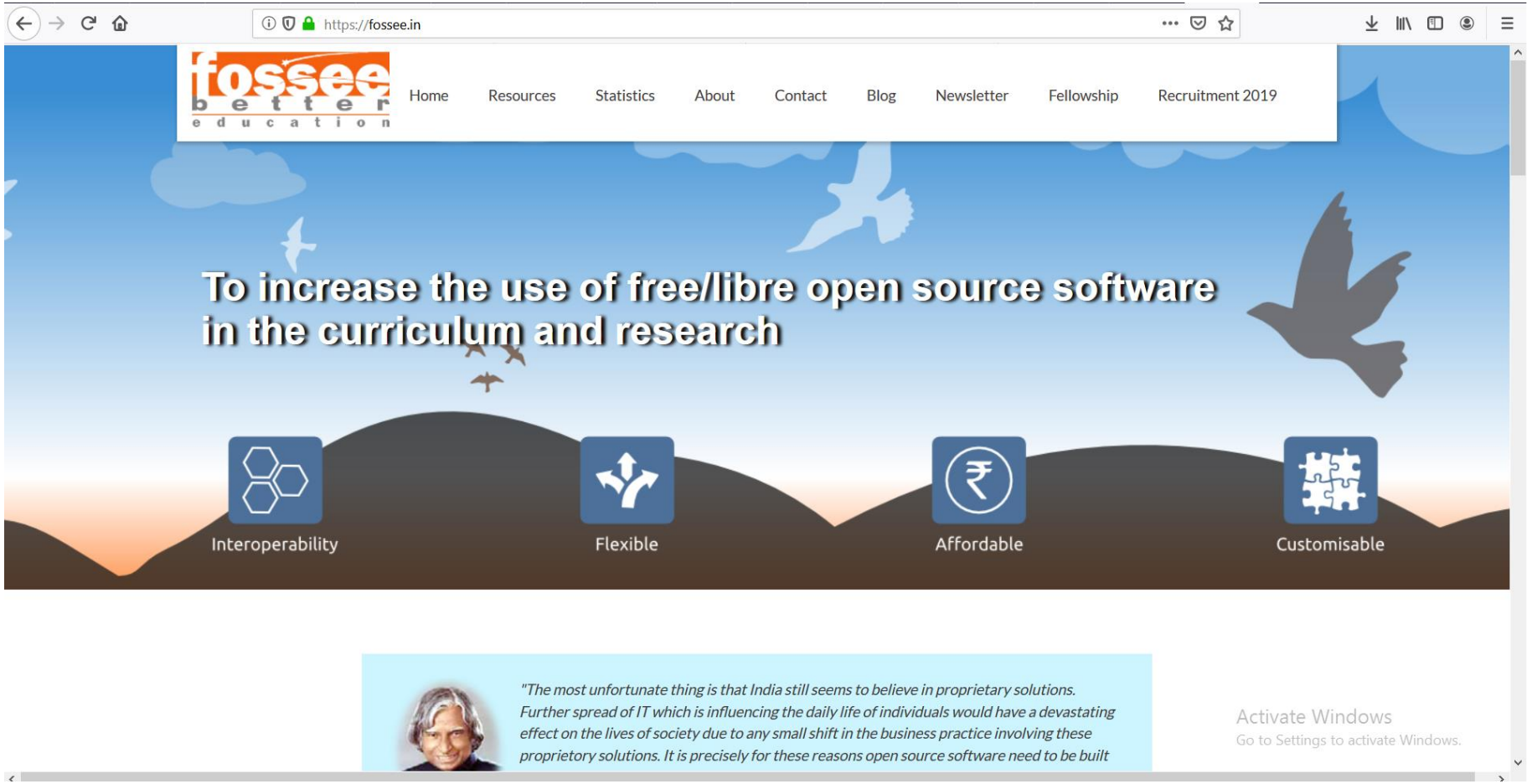
Ways to contribute to open source projects



GitHub

Source:
https://rubygarage.org/blog/how-contribute-to-open-source-projects

FOSSEE Project, IIT Bombay



Outreachy

https://www.outreachy.org

OUTREACHY Log In Applicants Volunteers Interns Donors About Us

The initial application period for the December 2019 to March 2020 round is now open! Apply today.

Please read about our application process and see our list of internship projects.

Sign up for the Outreachy announcements mailing list to receive notifications of upcoming application rounds and application deadlines.

Communities interested in mentoring Outreachy interns should sign up to mentor through the community CFP process.

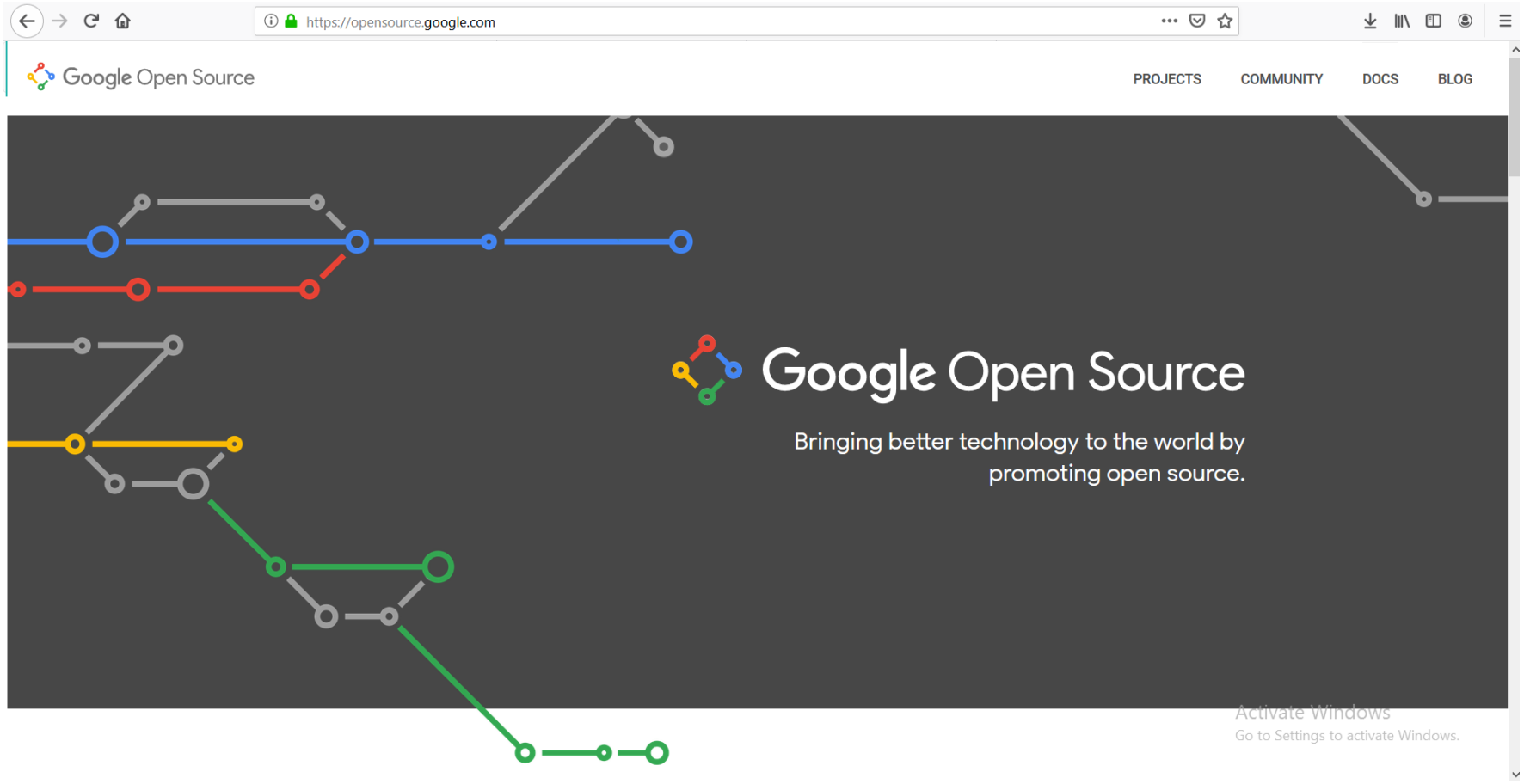
Outreachy provides internships to work in Free and Open Source Software (FOSS). Outreachy internships are open to applicants around the world. Interns work remotely, and are not required to move. Interns are paid a stipend of $5,500 USD for the three month internship. Interns have a $500 USD travel stipend to attend conferences or events.

Interns work with experienced mentors from FOSS communities. Outreachy internship projects may include programming, user experience, documentation, illustration, graphical design, or data science. Interns often find employment after their internship with Outreachy sponsors or in jobs that use the skills they learned during their internship.

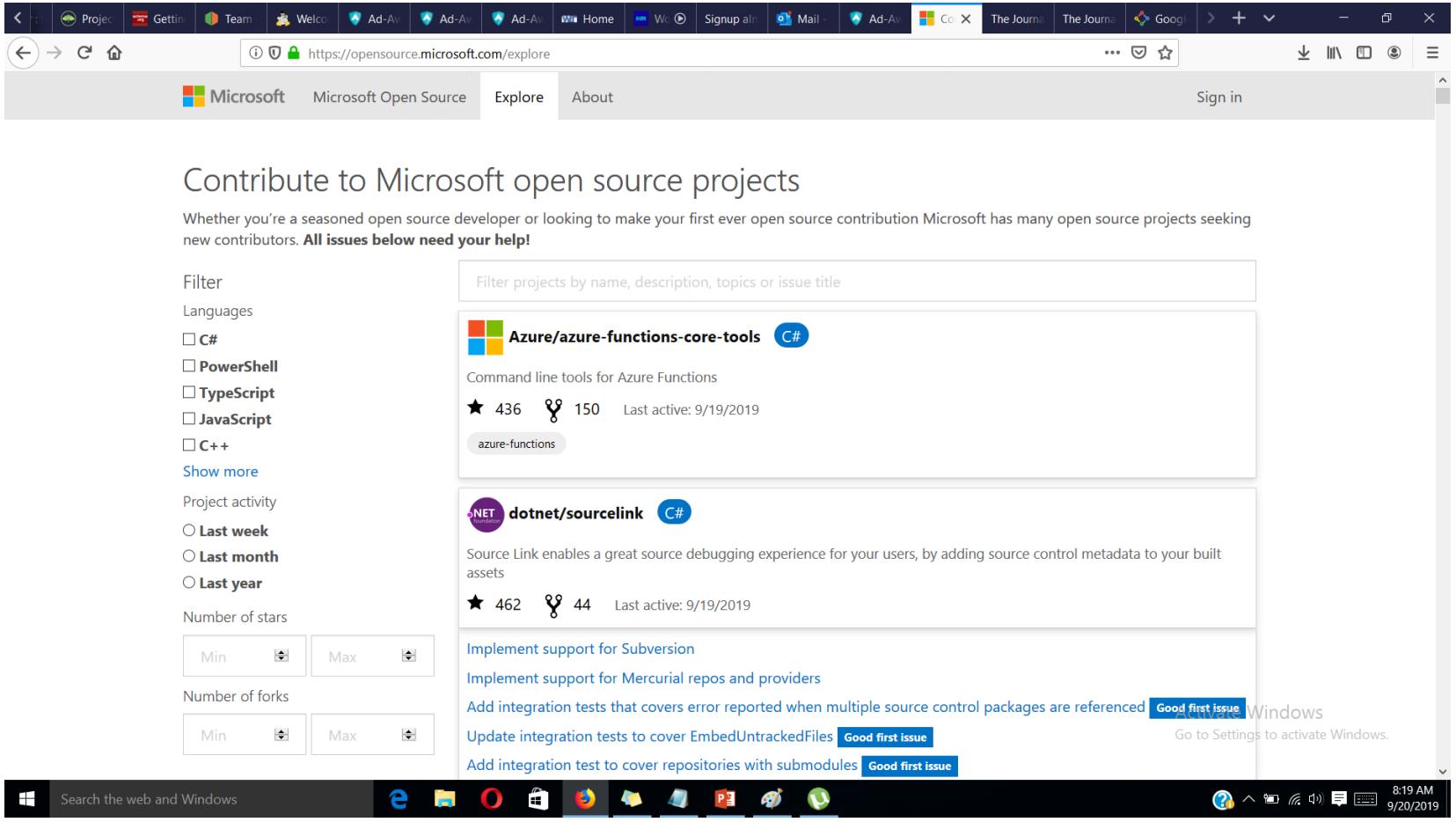
We expressly invite women (both cis and trans), trans men, and genderqueer people to apply. We also expressly invite applications from residents and nationals of the United States of any gender who are Black/African American, Hispanic/Latin@, Native American/American Indian, Alaska Native, Native Hawaiian, or Pacific Islander. Anyone who faces under-representation, systemic bias, or discrimination in the technology industry of their country is invited to apply.

Activate Windows
Go to Settings to activate Windows.

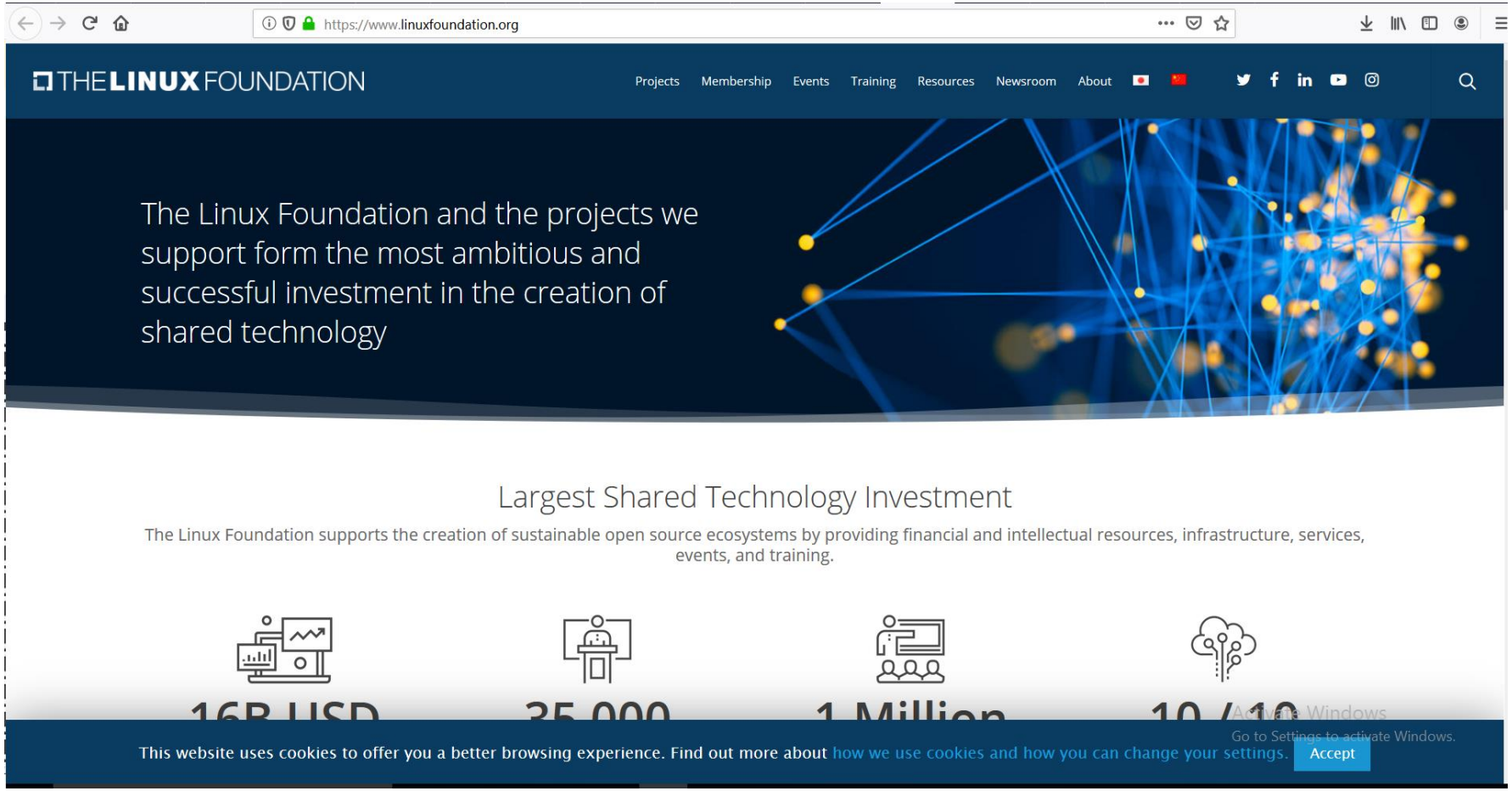
Google Open Source



Microsoft Open Source



The Linux Foundation



Mozilla Foundation

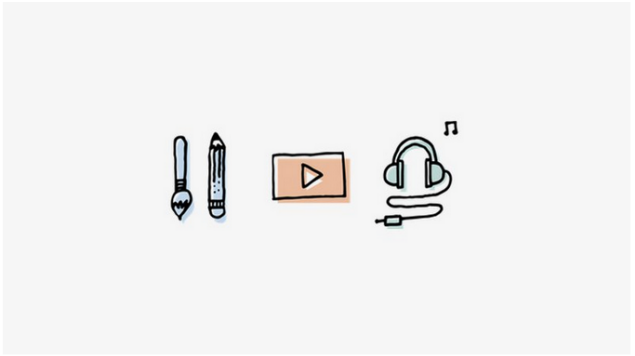
https://foundation.mozilla.org/en/

moz://a Initiatives Participate Internet Health About Us Donate Newsletter

Announcing 'Grant for the Web'

Coil, Mozilla, and Creative Commons have launched Grant for the Web, an ambitious initiative to empower individual creators and galvanize an alternative business model for online content

Learn more



Latest news

ADVOCACY

Answers to Your Questions About the Dark Side of the Internet

by Mozilla on September 3, 2019

The anonymous mother and son from this important article in the Washingtonian, What Happened After My Son Joined the Alt-Right, agreed

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Scipy 2019

https://www.scipy2019.scipy.org
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SciPy2019
Scientific Computing with Python
Austin, Texas • July 8-14
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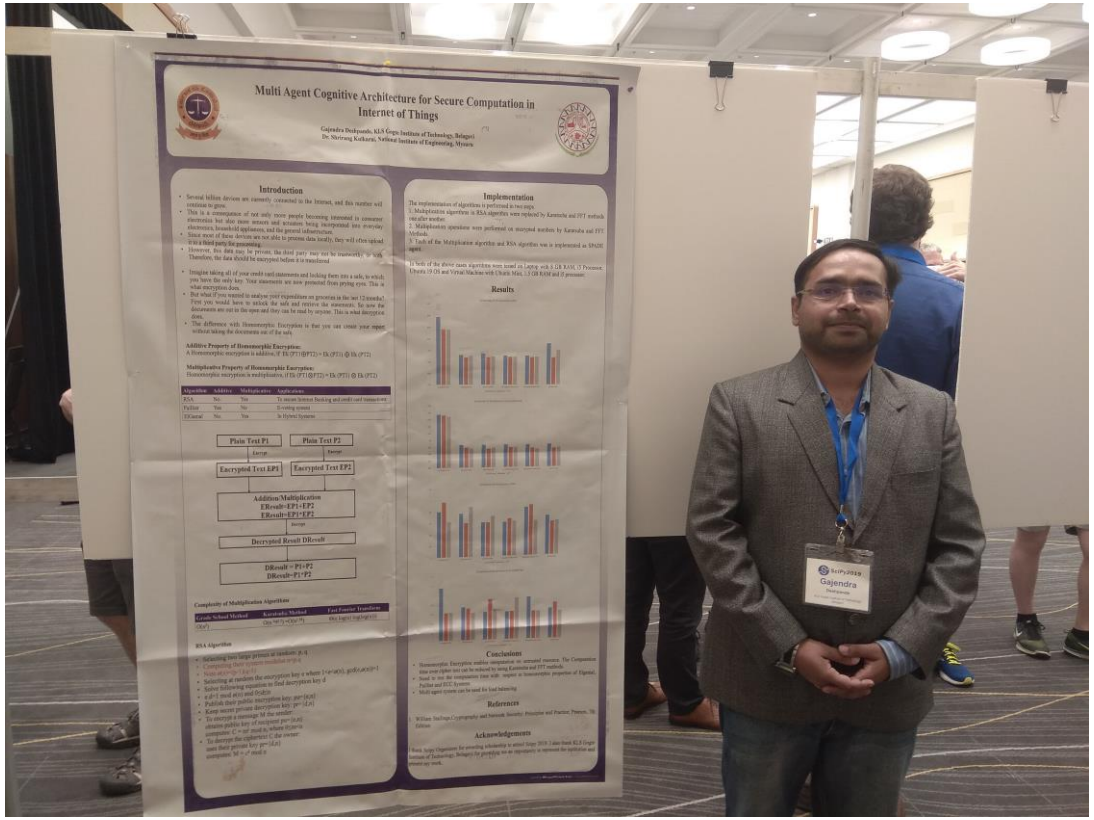
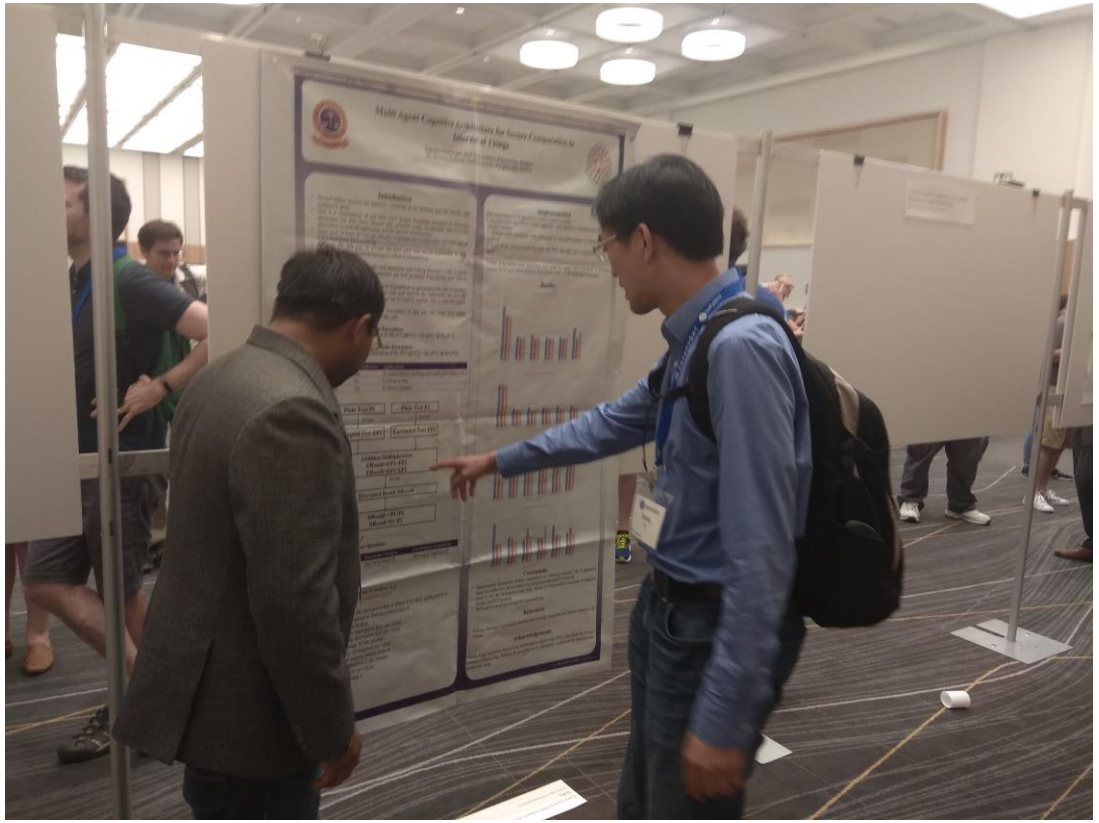
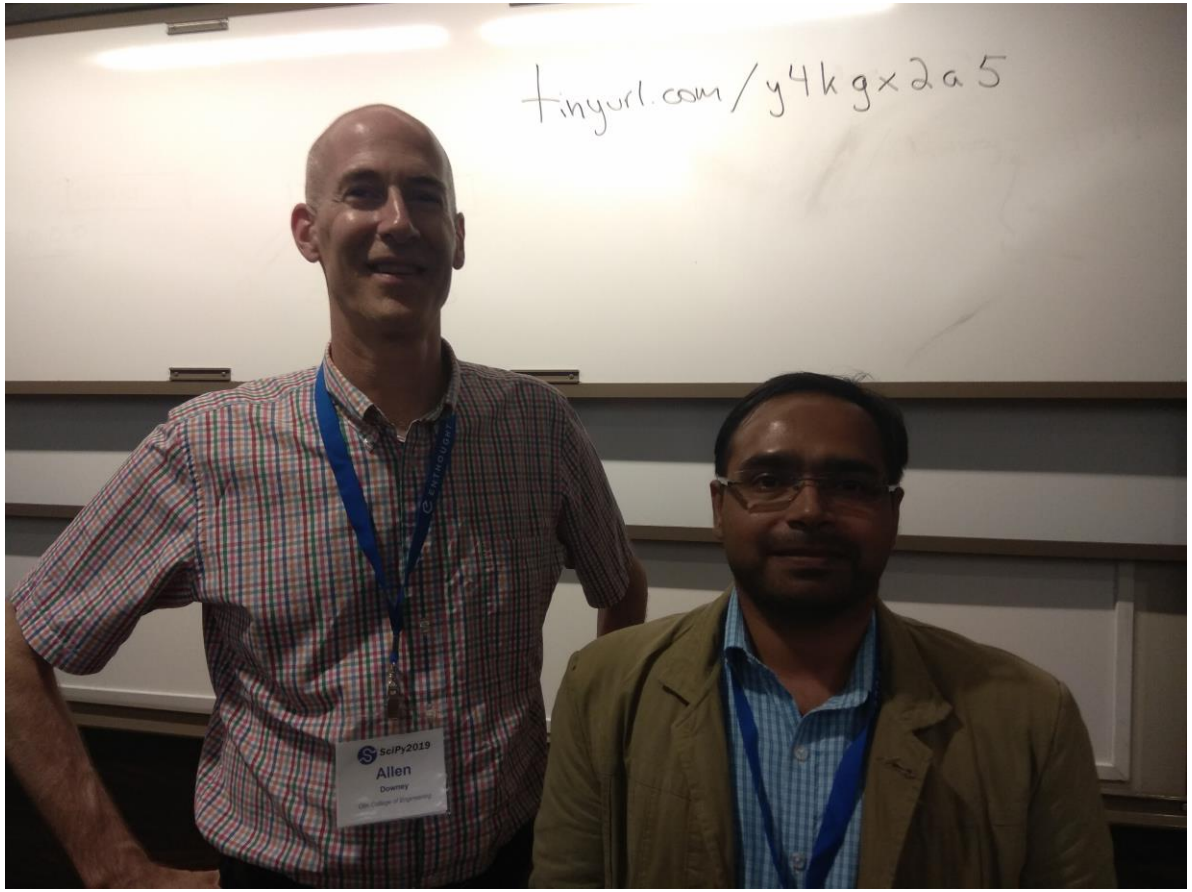
@Scipy 2019, Texas, USA

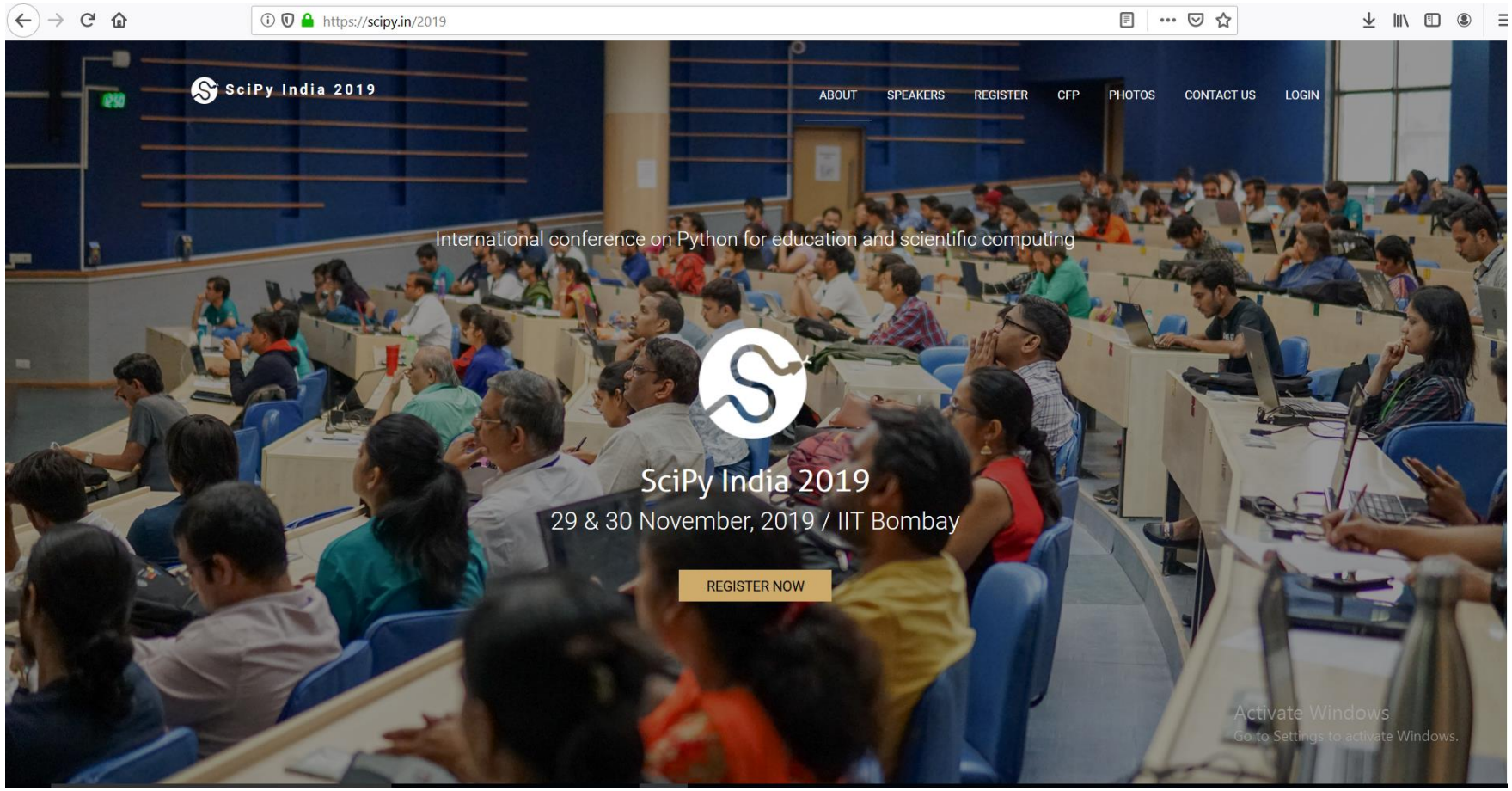




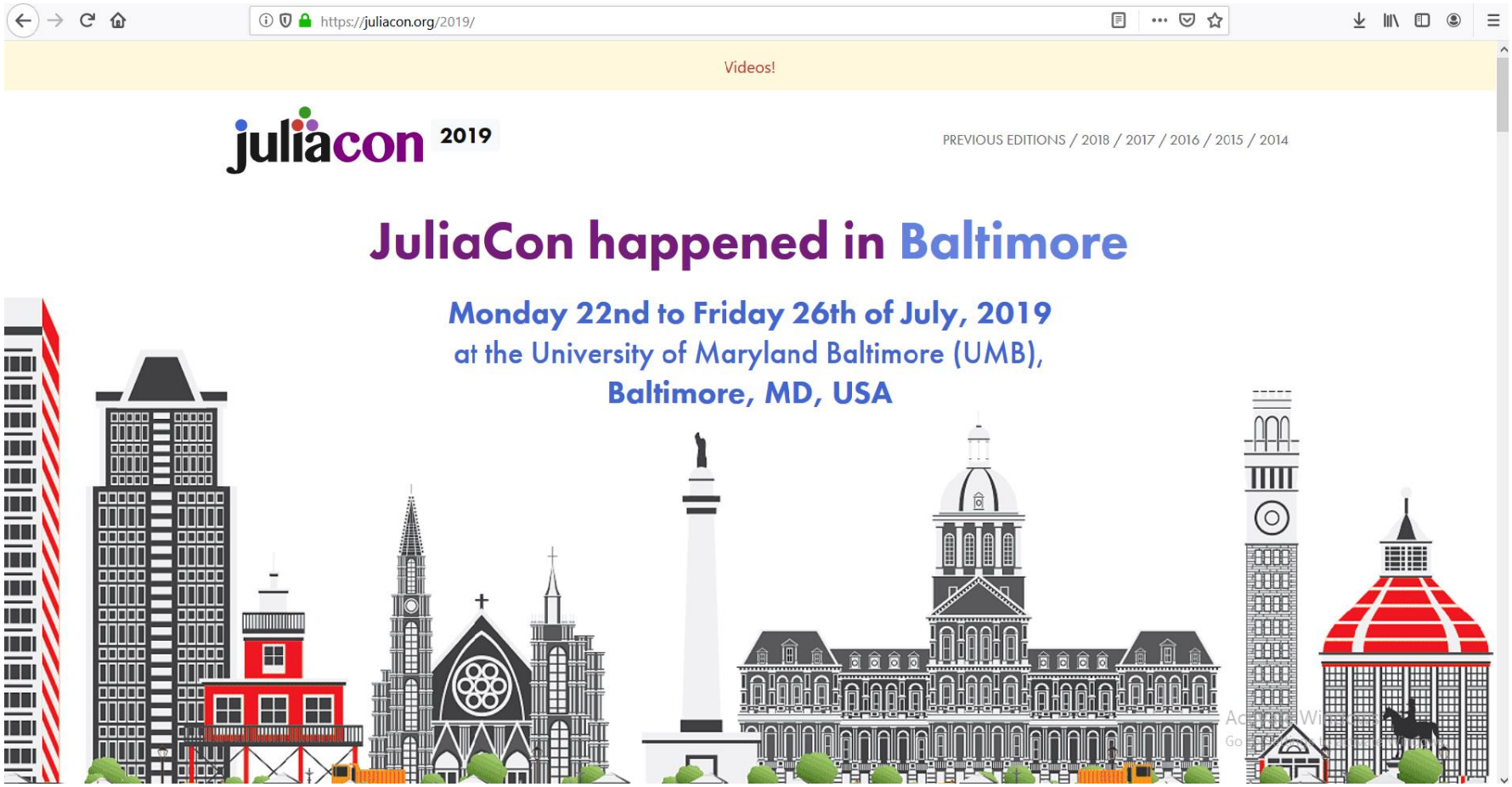
@Scipy 2019, Texas, USA



Scipy India 2019

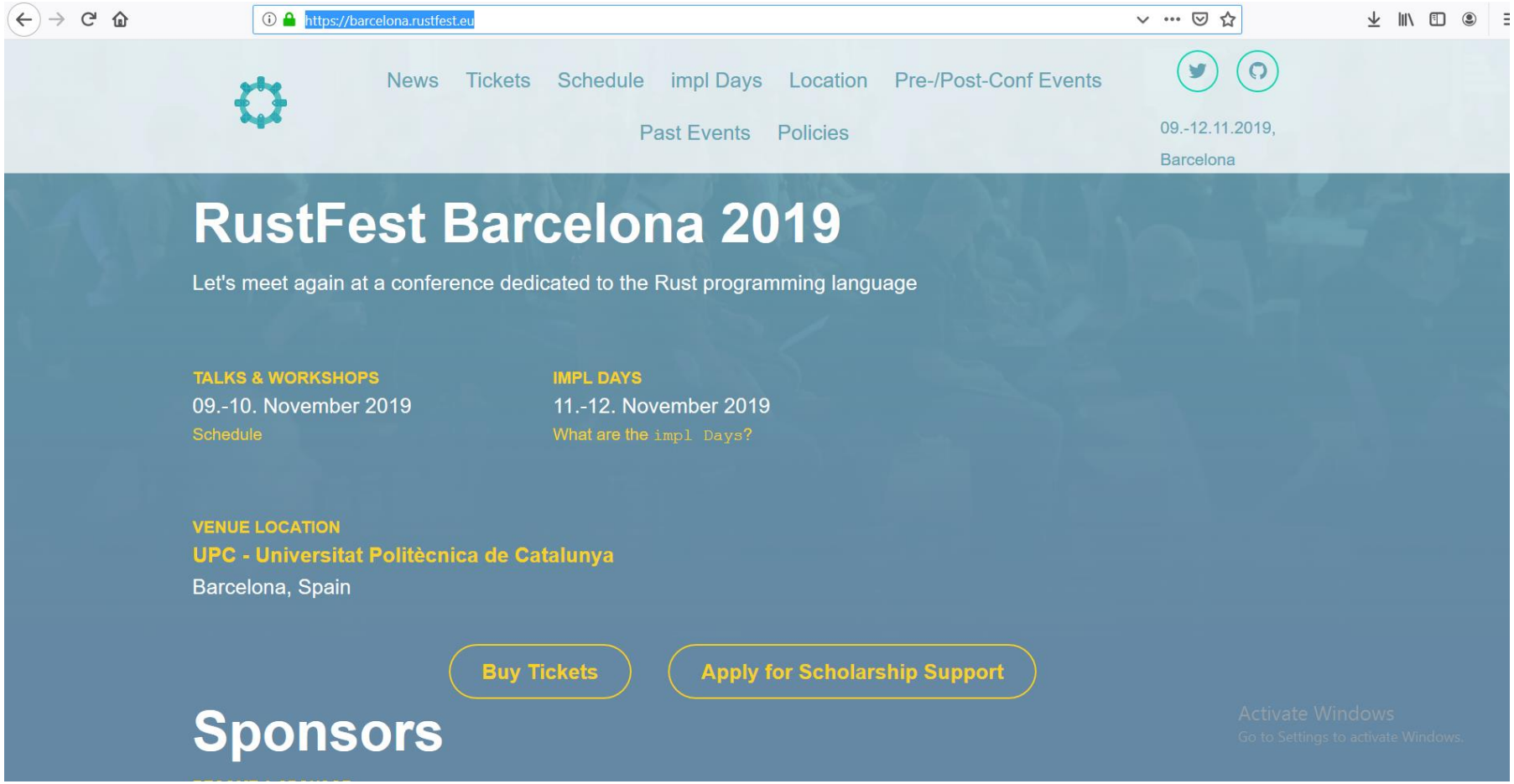


JuliaCon 2019, USA



@JuliaCon 2018, London, UK

RustFest


https://barcelona.rustfest.eu
News
Tickets
Schedule
impl Days
Location
Pre-/Post-Conf Events
Past Events
Policies
09.-12.11.2019,
Barcelona
RustFest Barcelona 2019
Let's meet again at a conference dedicated to the Rust programming language
TALKS & WORKSHOPS
09.-10. November 2019
Schedule
IMPL DAYS
11.-12. November 2019
What are the impl Days?
VENUE LOCATION
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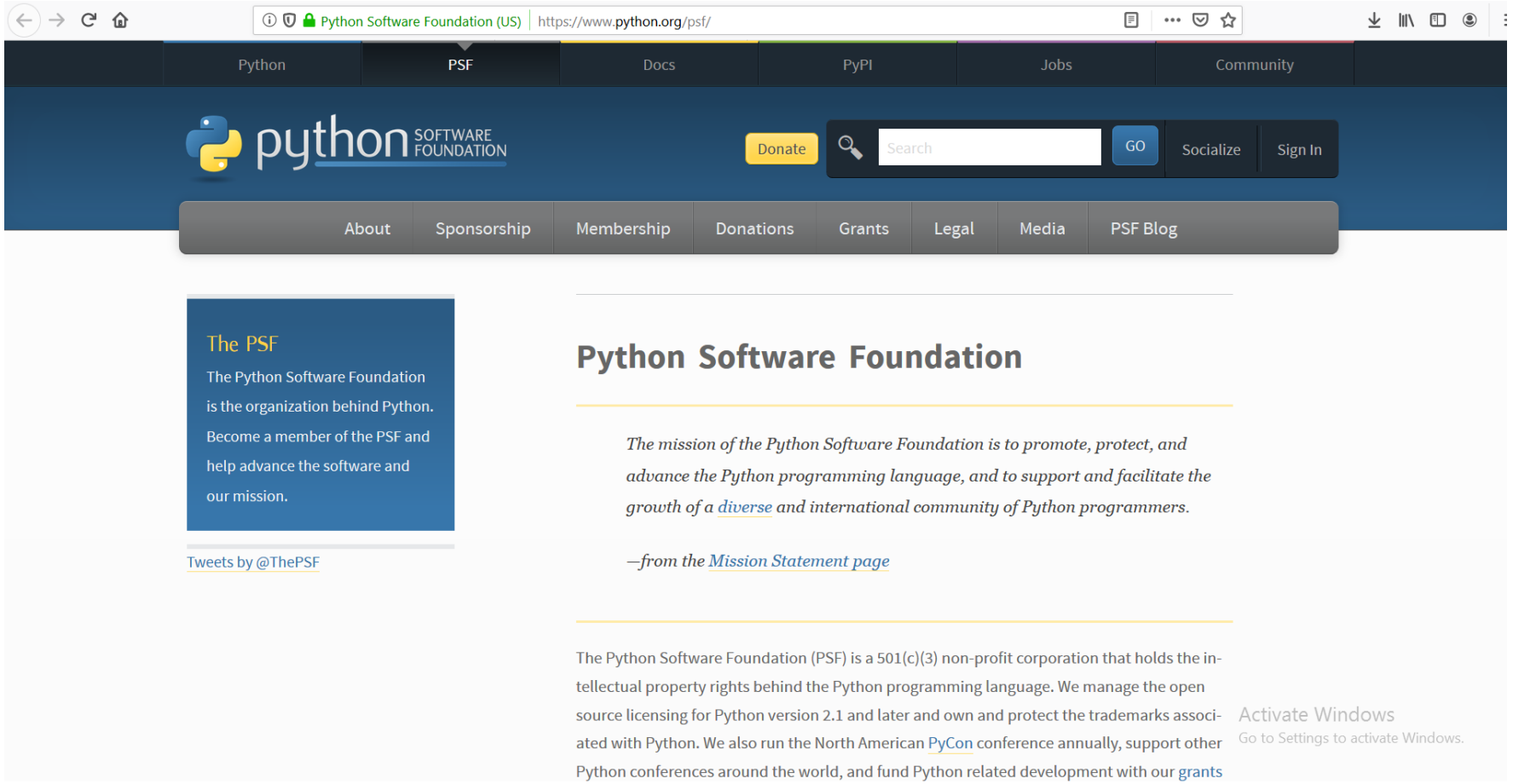
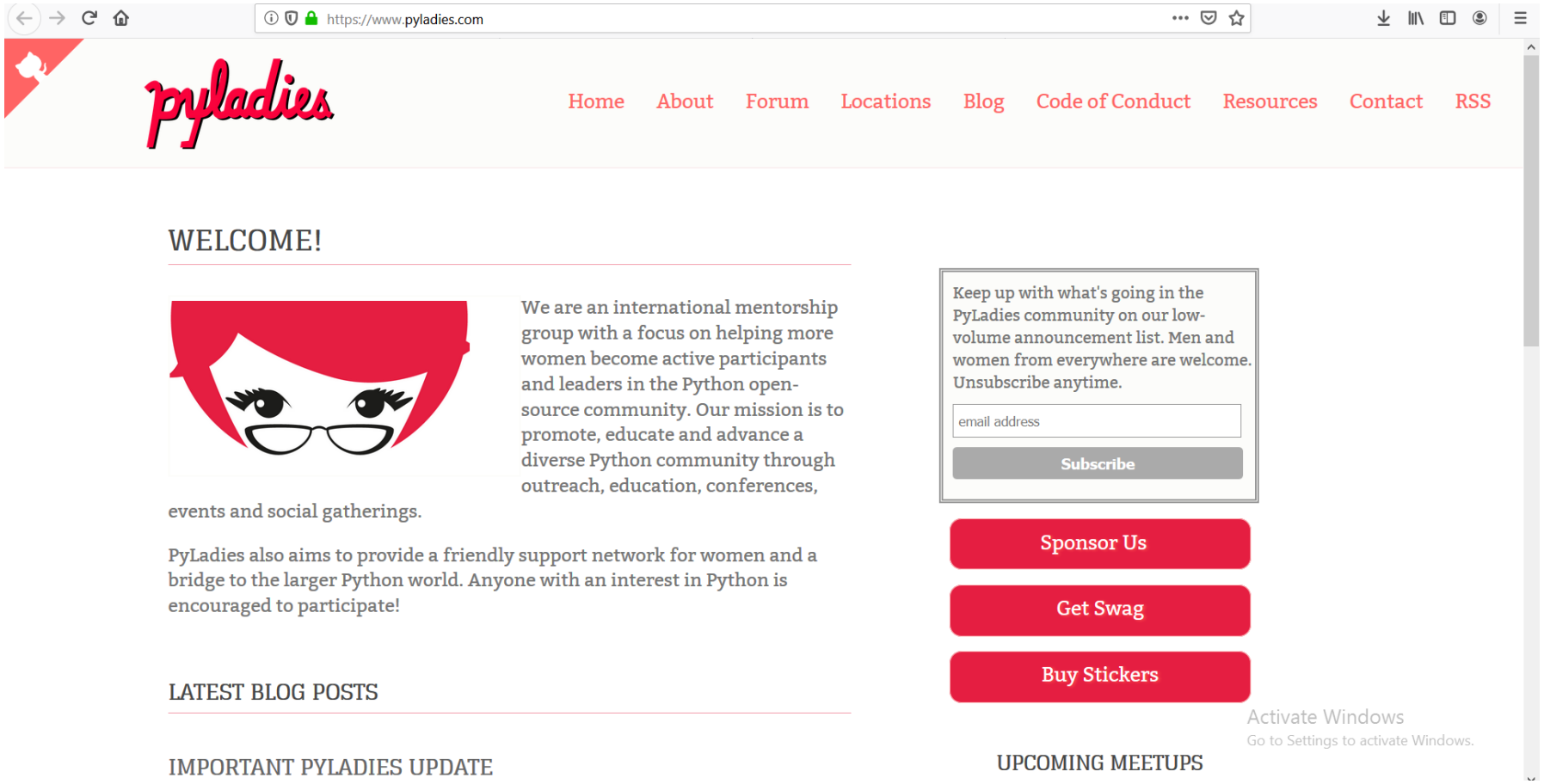
Python Software Foundation



pyladies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WELCOME!
We are an international mentorship group with a focus on helping more women become active participants and leaders in the Python open-source community. Our mission is to promote, educate and advance a diverse Python community through outreach, education, conferences, events and social gatherings.
PyLadies also aims to provide a friendly support network for women and a bridge to the larger Python world. Anyone with an interest in Python is encouraged to participate!
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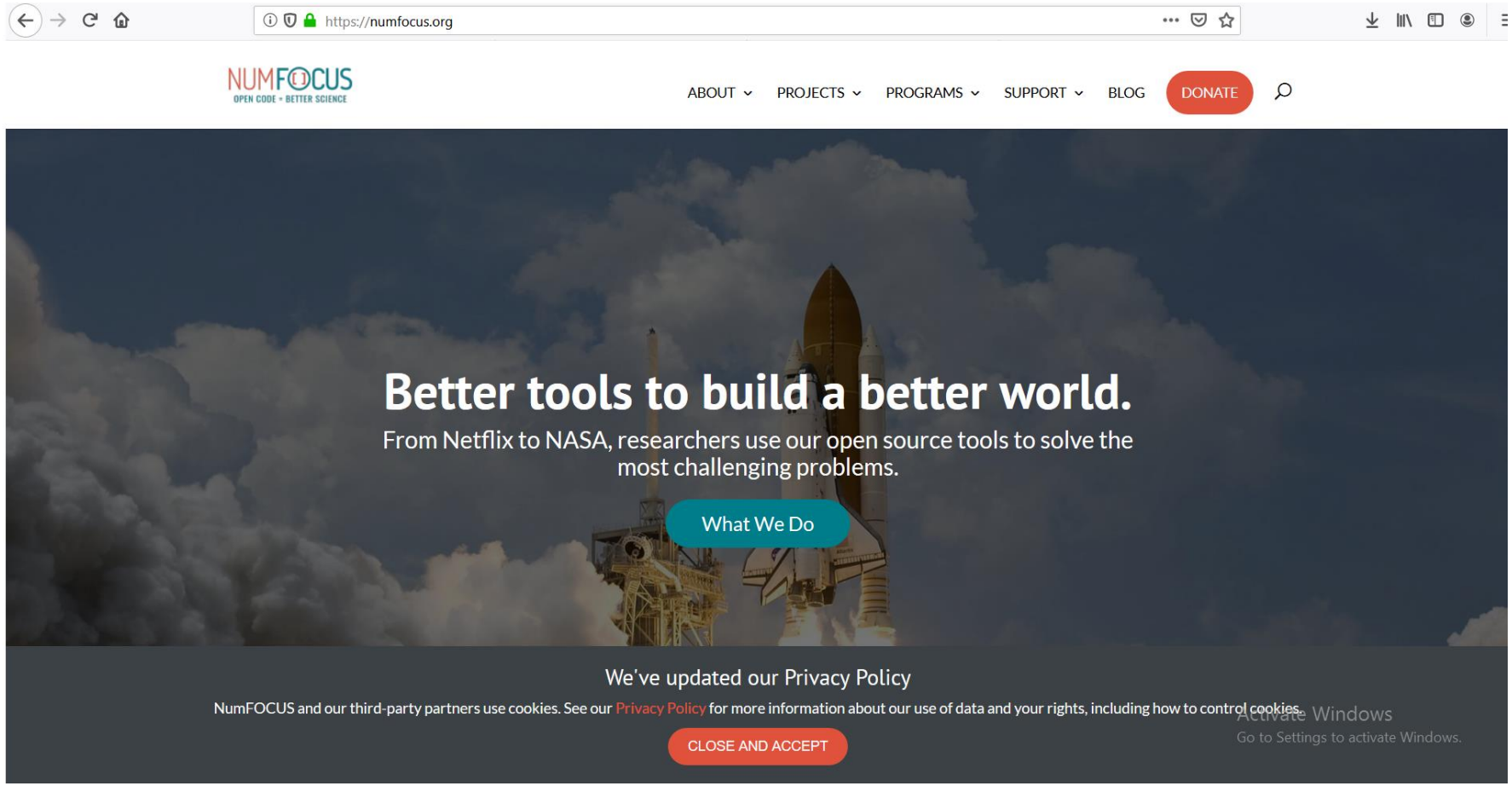
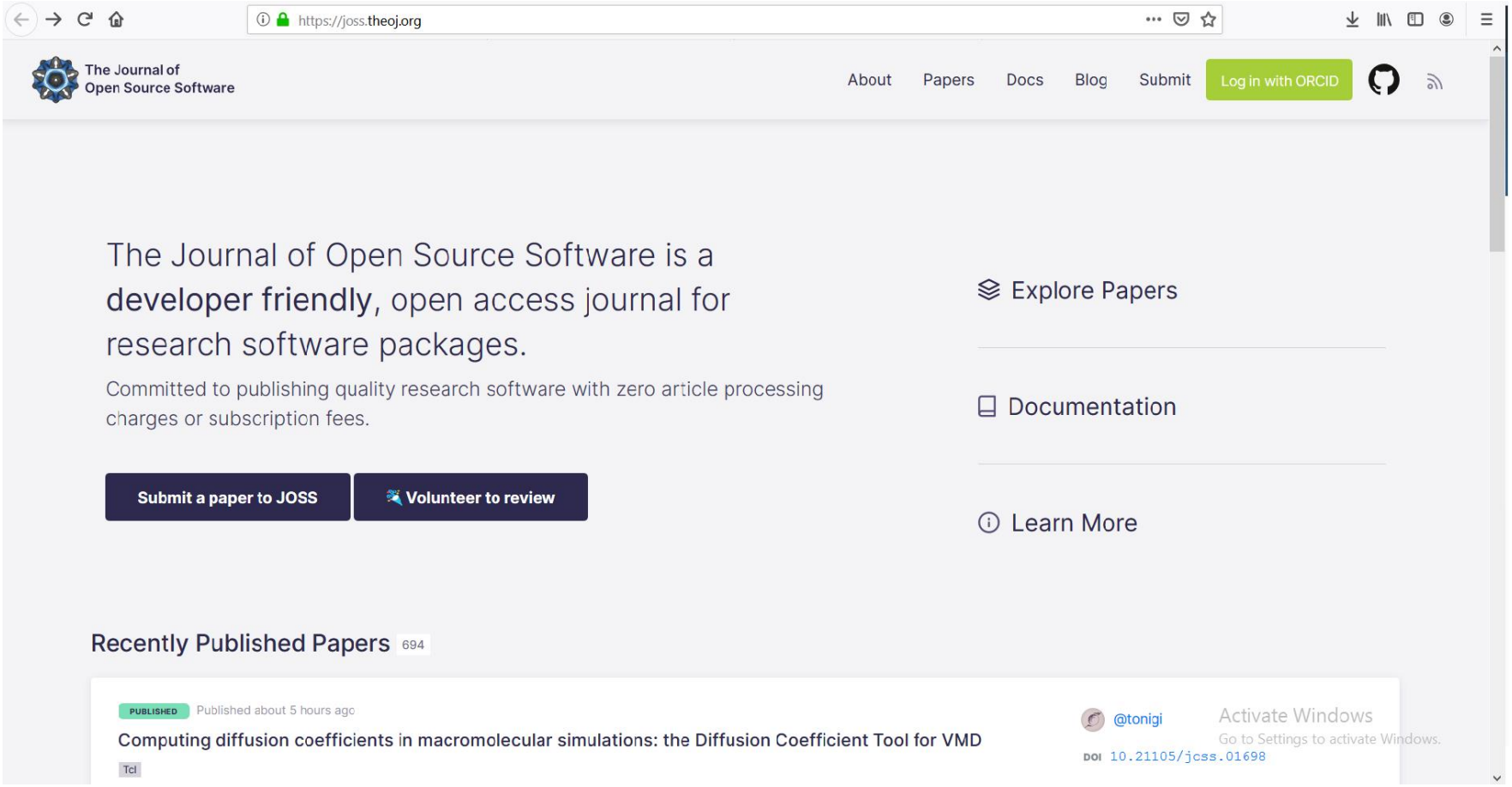
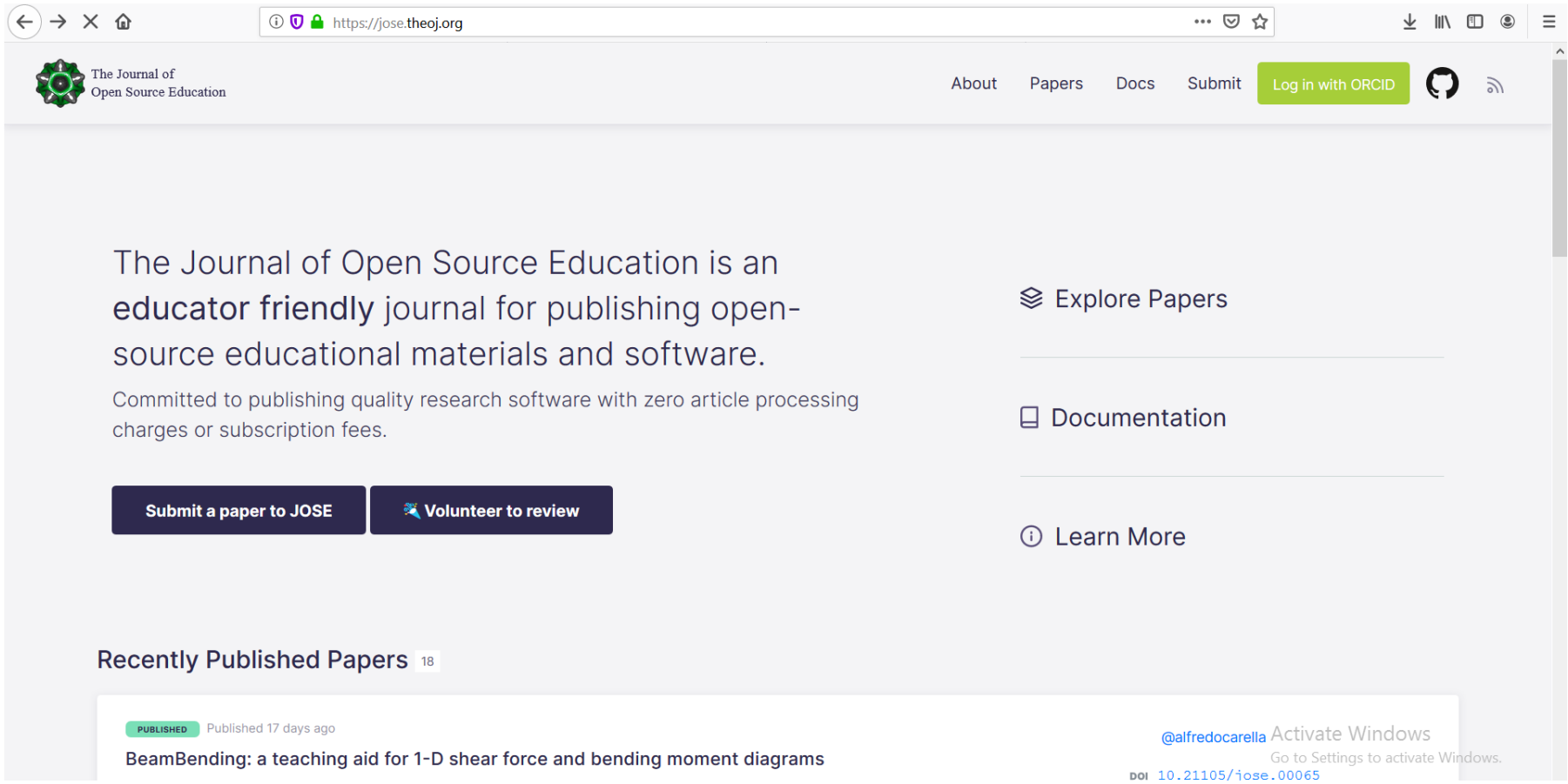
NUMFOCUS USA



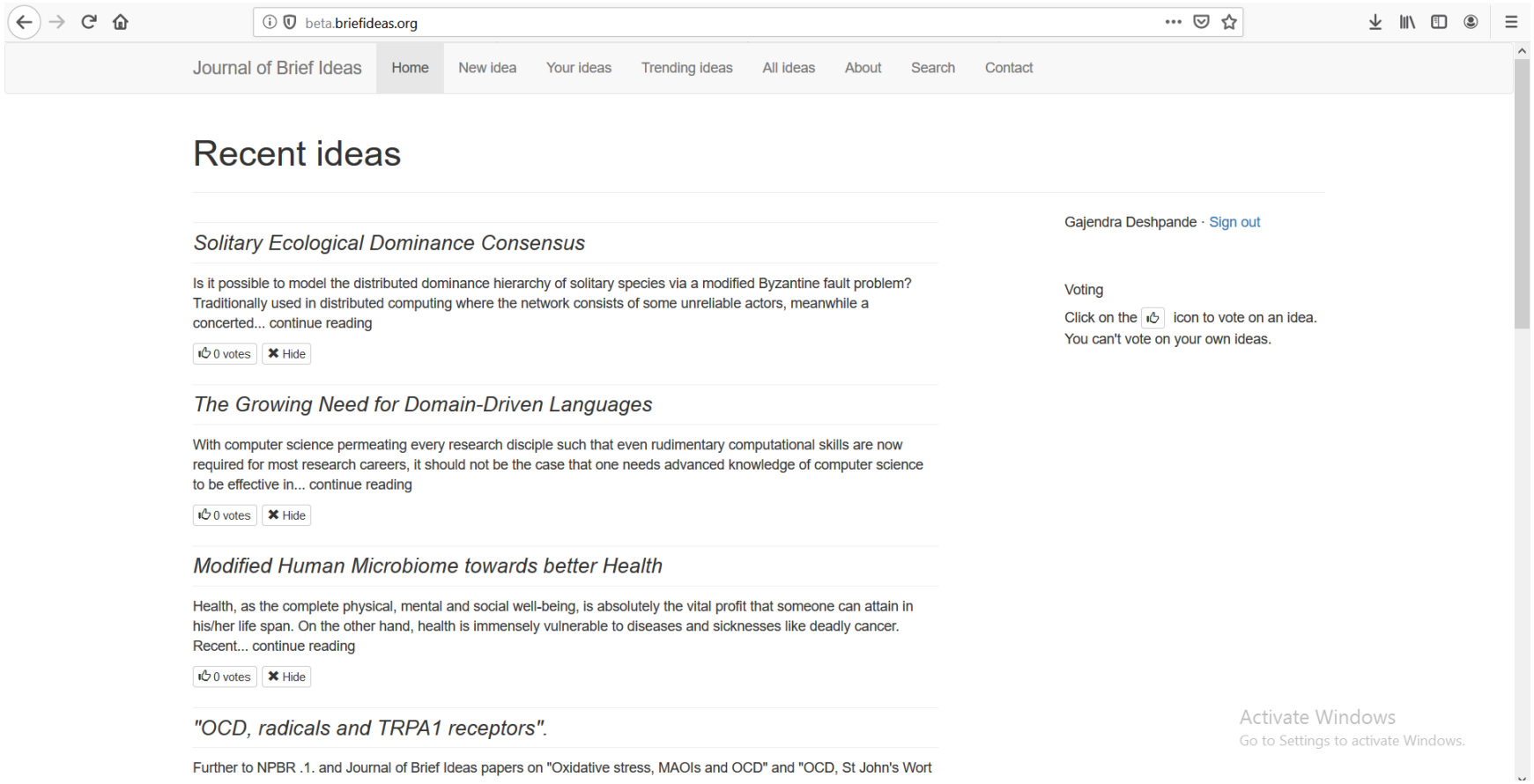
Journal of Open Source Software



Journal of Open Source Education



Journal of Brief Ideas



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