



auditing in open source

Jupyter Accessibility Workshop 4

reminders

- by attending this event, you are agreeing to follow the event Code of Conduct
- this event will be recorded and posted publicly

welcome to Jupyter!



what is Jupyter?

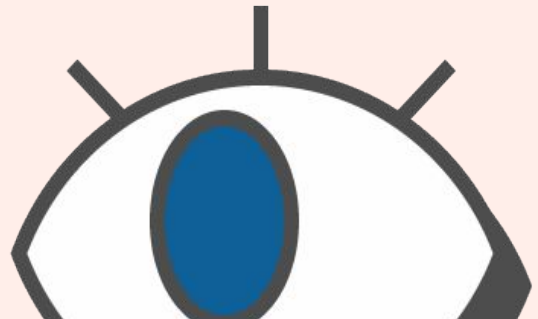




Free software, open standards, and web services for interactive
computing across all programming languages

Jupyter is more than a single project, file type, interface, or community.

what is accessibility?

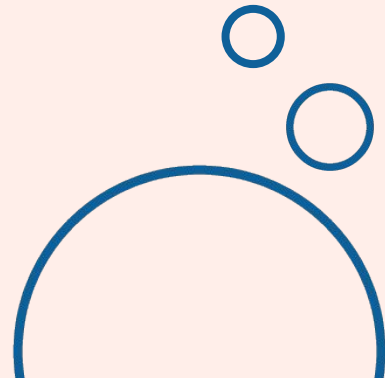


highlights + °

- accessibility meetings for a year!
- community growth
- WCAG-based audits of multiple projects (with issues and PRs)
- CZI Essential Open Source Software for Science grant

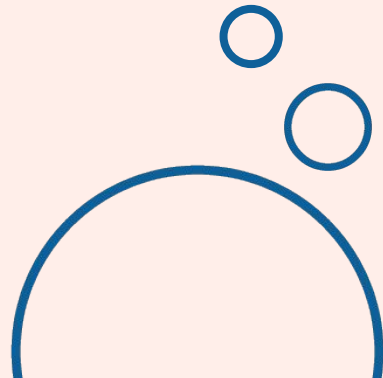
future goals

- add automated tests
- ensure the notebook file format is as accessible as can be
- update and improve documentation

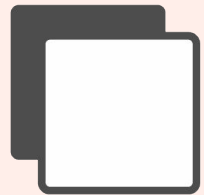


future goals

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- update and improve documentation



what does that have to do with auditing?



auditing?

auditing?



- often used in legal spaces
- tied singularly to standards over focus on user experience

testing?



evaluation?



what is testing?

- the tools and/or skills we use to check that something has an accessible experience
- two main categories
 - automated testing
 - manual testing

automated testing

- [WAVE](#) (WebAIM)
- [Pa11y](#)
- [jest-axe](#)
- and more!

Pa11y Dashboard - your automated accessibility testing pal

Filter



Add new URL



GitHub Home

(WCAG2AA)

31

ERRORS

57

WARNINGS

185

NOTICES

Last run 21 Jul 2019

Google Cloud Home

(WCAG2AA)

35

ERRORS

43

WARNINGS

590

NOTICES

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Knowbility Home

(WCAG2AA)

0

ERRORS

9

WARNINGS

89

NOTICES

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Reddit Home

(WCAG2AA)

101

ERRORS

160

WARNINGS

417

NOTICES

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7

ERRORS

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WARNINGS

195

NOTICES

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Twitter Home

(WCAG2AA)

52

ERRORS

8

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107

NOTICES

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W3 Home

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2

ERRORS

77

WARNINGS

183

NOTICES

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pa11y.org Home

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0

ERRORS

2

WARNINGS

30

NOTICES

Last run 19 Jul 2019

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Version 2.4.2

[GitHub Repo](#)

[Bug Tracker](#)

[WCAG 2.0 spec](#)

[HTML CodeSniffer](#)

these tools run on their own and provide us reports (like this example)

sound familiar?

many open source projects already use automated tests to ensure the quality of their project

including accessibility tests is still more rare

manual testing

- the techniques are (almost) endless!
- example: can you navigate and complete all actions in an interface using only your keyboard?

sound familiar?

this kind of testing may be a part of reviewing PRs
and checking that they work as expected.

pros and cons

pros

automated tests:

- catch some accessibility issues
- don't rely on any individual person with accessibility knowledge
- are already a common practice in many open source projects

and cons

automated tests:

- don't consider accessibility holistically and miss many breaking issues
- can sometimes give a false sense of security if all checks are passing

pros

manual tests:

- catch accessibility issues in the ways users encounter them
- put the focus on accessible user experience
- if done well, they catch more issues

and cons

manual tests:

- rely on a person to test
- rely on a person with accessibility knowledge to test (may be a limiting factor in open source)
- humans make mistakes

challenges in open source

or are they opportunities?

let's work

we'll break up into rooms so
you can team up and learn

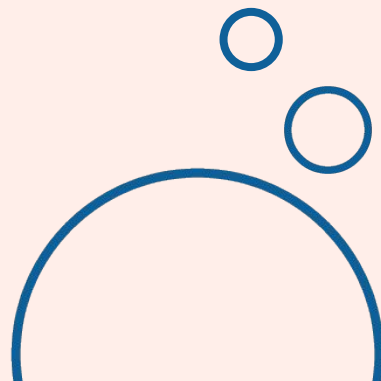


75 minutes | [notes document](#)

we'll be right back

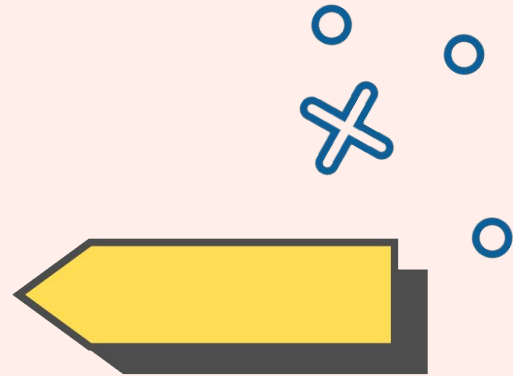
welcome back

let's celebrate!



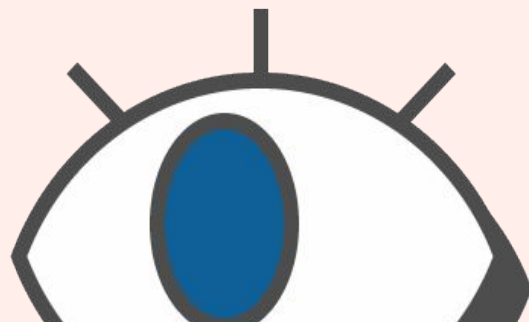
what are your thoughts?

please let us know how we can plan better events by filling out the [feedback survey](#).



upcoming events

- **March 29:** monthly Jupyter community call



get involved with Jupyter

- for all projects: join a monthly community call!
- for accessibility:
 - [Jupyter Discourse](#) and [jupyter/accessibility](#)
 - join a JupyterLab accessibility meeting

thank you!

- to the event team, especially Tony and Tania
- to the Jupyter Community Building Committee, especially Ana and Christine
- to the Jupyter Community Workshop sponsors
- to NumFocus for their support
- to the team that wrote the event proposal