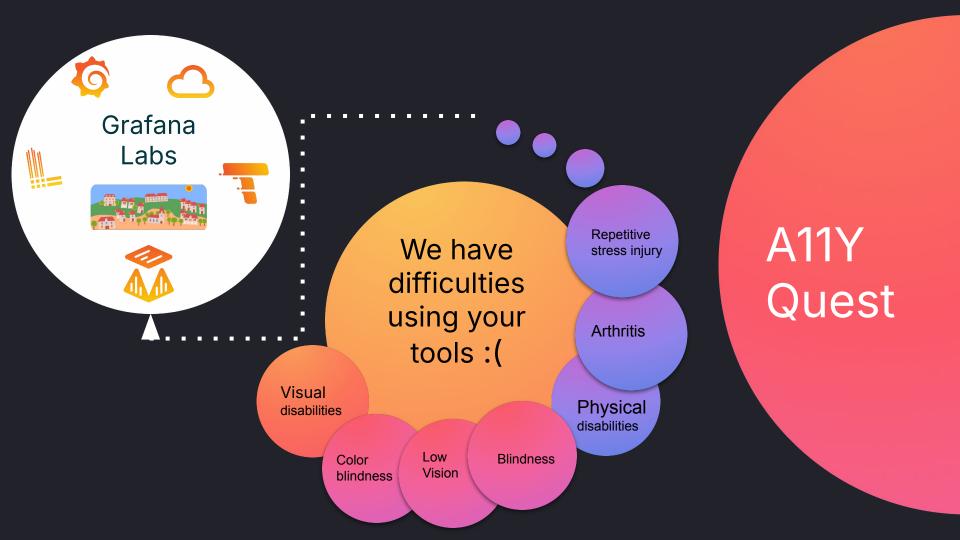


Tales of Accessibility(A11y) on Grafana OS

Introducing Pa11y CI into our Pipeline

Grafana EMEA Virtual Meetup

05 October 2021





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Why is A11y Important?

15%

Population that have some sort of disability (<u>WHO</u>) 80 Million On Europe

Population currently has Disability europarl.europa.eu 217 Million

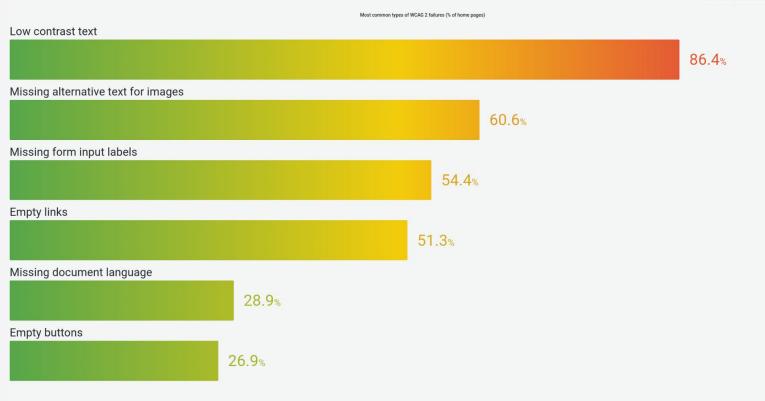
People worldwide with moderate to severe vision Impairment (WHO) 65 + By 2060 People 65 or older is expected to double to 98 million (APA)





Alright, is the web following WCAG (Web Content Accessibility Guidelines)?

Annual A11y analysis of the top 1,000,000 home pages



A11y is a Group Effort

The Quest! What we are doing in Grafana



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Access to training/courses to gain a11y skills Use Automated tools & Work in the Design System -`œ́

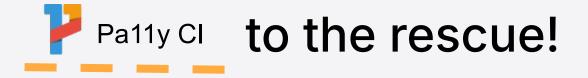
Usability test



Where we are?

How many A11y issues do we have?





Pa11y CI vs Cypress Audit?

Pa11y CI

- + Fast (~ 1:30 min)
- + Configuration per pipeline stage
- Required CI knowledge
- Flakiness

Cypress Audit

- + Out of the box, we had already e2e written on cypress
- + One single configuration

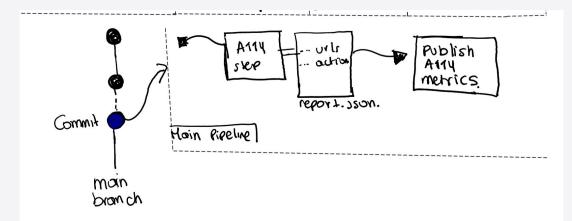
- Slow (~ doubled e2e time, +15 min)
- Failure on CI if ally fail



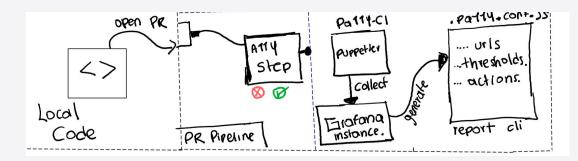
Objectives:

Continuous Integration (Drone)

Collect ally metrics
for the main pages
and send it to the
Grafana CI metrics



 Prevent ally regressions when refactoring or introducing new code in the project



Give me the Code

- Install Pa11y-Cl
- Create config file to test your urls
- Add pally command to package.json
- Go to your PR pipeline configuration, create a new step and call the ally command (pass your host and port)
- Push your changes





DEMO

Pa11y CI - Collecting a11y issues

"If you can't measure it, you can't improve it."

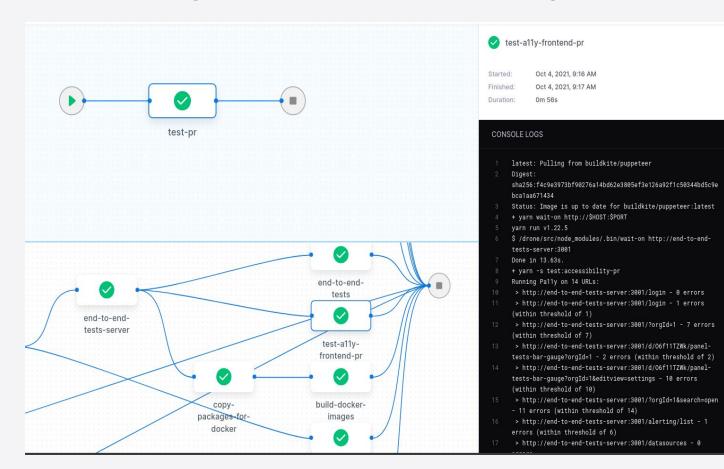
Peter Drucker



A11y Errors - Stats on every merge on main branch



Pa11y CI - As a "gatekeeper" on PR stage



Х

Local HTML report

Accessibility Report Summary			
Generated at: Mon Oct 04 2021 21:34:10 GMT+0200 (Central	ral European Sur	nmer Time)	
Filter page results: Pally Issues No Issue	Page Err	rors	
http://localhost:3001/login	1 errors	0 warnings	0 notices
http://localhost:3001/?orgId=1	7 errors	0 warnings	0 notices
http://localhost:3001/d/O6f11TZWk/panel-tests-bar-gauge?orgId=1	2 errors	0 warnings	0 notices
http://localhost:3001/d/O6f11TZWk/panel-tests-bar-gauge?orgld=1&editview=sett	10 errors	0 warnings	0 notices
http://localhost:3001/?orgId=1&search=open	11 errors	0 warnings	0 notices
http://localhost:3001/alerting/list	1 errors	0 warnings	0 notices
http://localhost:3001/datasources	0 errors	0 warnings	0 notices
http://localhost:3001/org/users	0 errors	0 warnings	0 notices
http://localhost:3001/org/teams	0 errors	0 warnings	0 notices
http://localhost:3001/plugins	0 errors	0 warnings	0 notices
http://localhost:3001/org	0 errors	0 warnings	0 notices
http://localhost:3001/org/apikeys	1 errors	0 warnings	0 notices
http://localhost:3001/dashboards	5 errors	0 warnings	0 notices

Struggles

- Gap knowledge in technical CI topics
- 2. Flakiness on Pa11y



What's next?



- Add more URL's to test using Pa11y
- Fix existing A11y issues
- Continuing working towards an A11y Culture





Is Pa11y CI going to catch all a11y issues?

No, it's estimated that automated tools only catch 20% of a11y errors are detectable

On A11y Quest make sure you bring:

- 🗹 🛛 Make sure we measure where you are
- Work with an amazing team, you will need support
- Make sure you have an instance available on CI

- Don't have skills on how CI works? Dare to learn
- Start small, only few urls
- 🖬 🛛 Be patience

Remember:

A11y is a Group Effort





Where you can find me, *W*



axelavargas

axelav