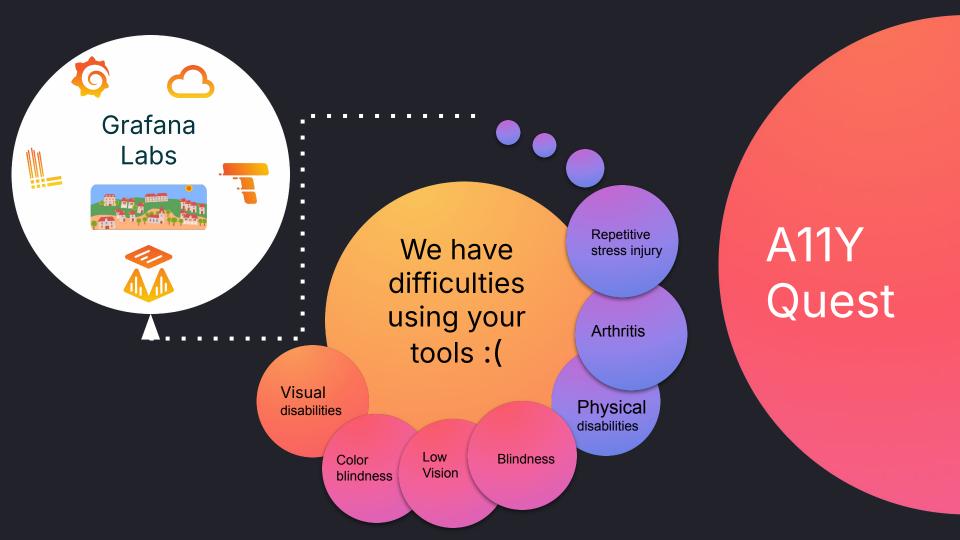


## Tales of Accessibility(A11y) on Grafana OS

#### Introducing Pa11y CI into our Pipeline

Grafana EMEA Virtual Meetup

05 October 2021





#### Alexandra Vargas

Software Engineer, Grafana OS, User Essentials



#### 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

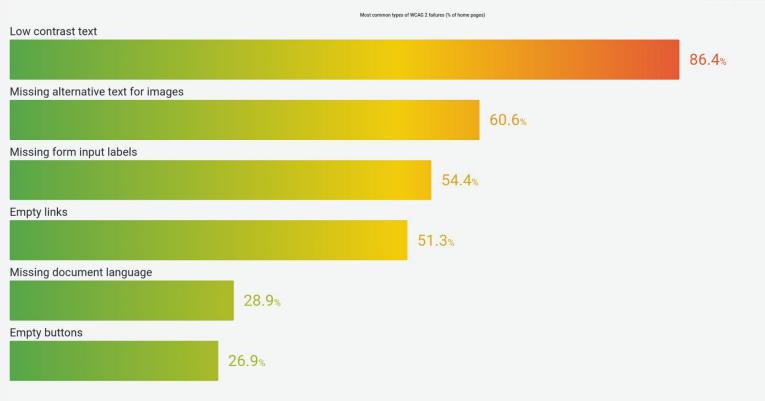
People worldwide with moderate to severe vision Impairment (WHO) 65 + By 2060 People 65 or older is expected to double to 98 million (APA)





## 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



<>

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

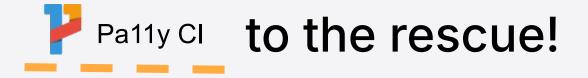
**Usability test** 



#### 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

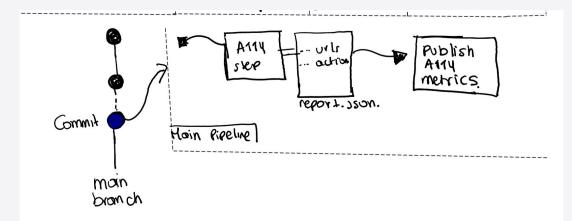
- Slow (~ doubled e2e time, +15 min)
- Failure on CI if ally fail



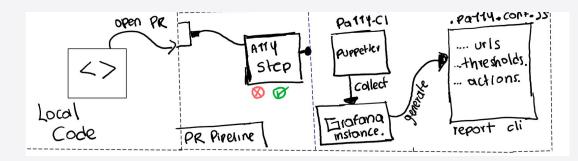
#### **Objectives:**

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."

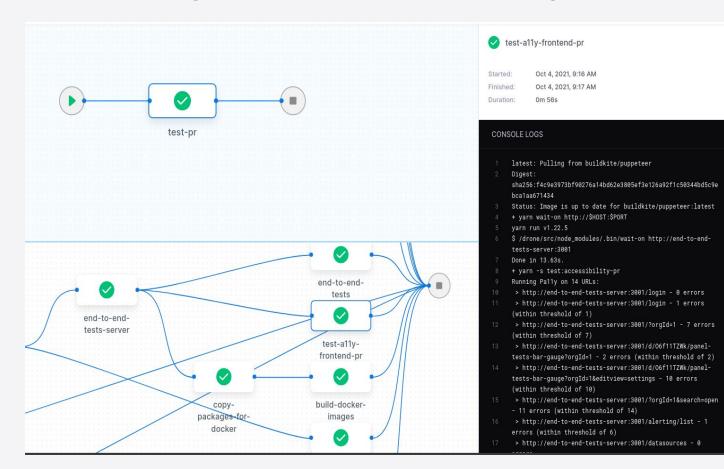
Peter Drucker



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