

### Sou Bruno Pulis

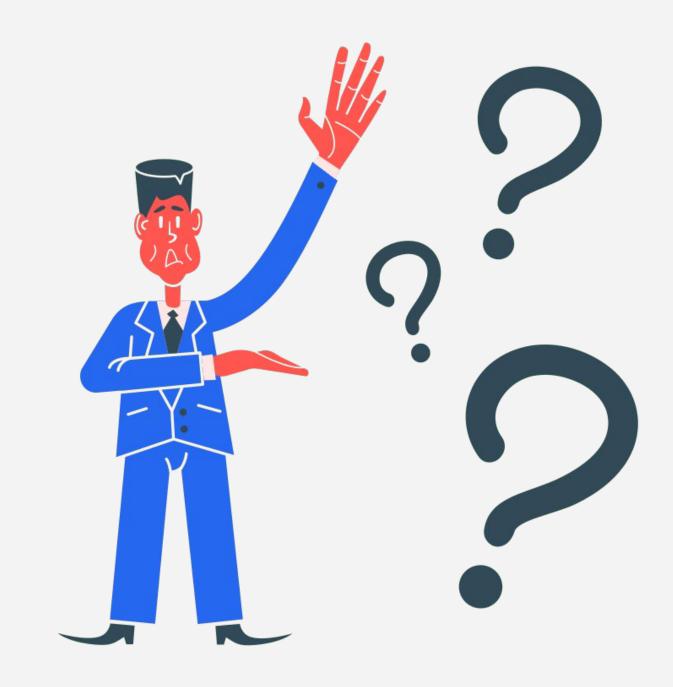
**Analista de Qualidade** 

SCAN ME

https://about.me/brunopulis

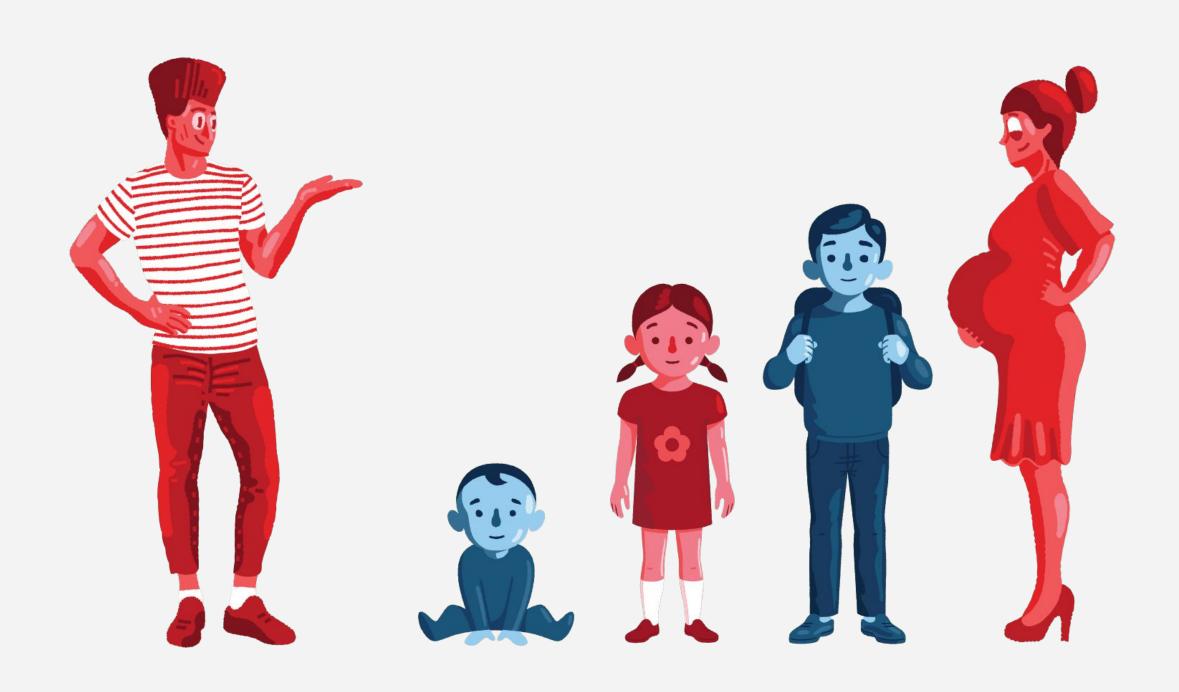
https://bit.ly/2WlZfVH

# Por que testes de acessibilidade?



### Falta de

## ACESSO





Fonte: Censo IBGE 2010

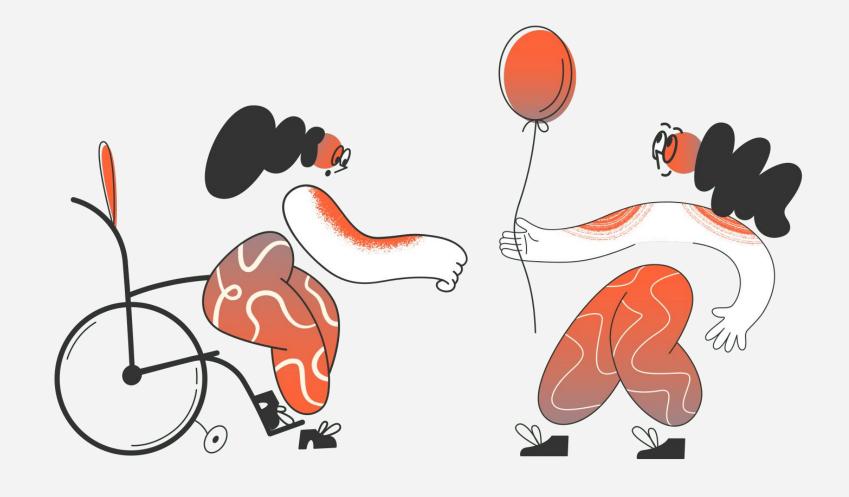
# Menos de 1% dos sites brasileiros são acessíveis

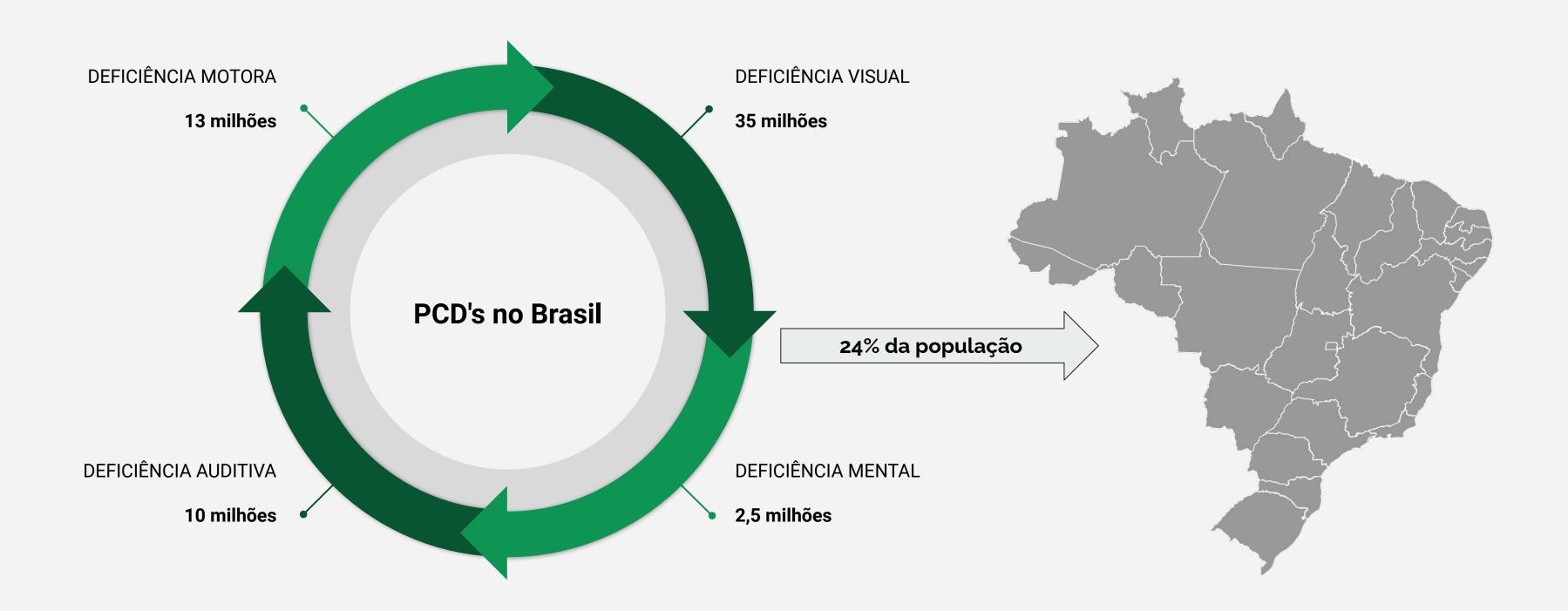


### Legislação Brasileira

- Constituição Federal de 1988
- Lei Nº 10.098 de 19 de dezembro de 2000
- Decreto Nº 6.949 de 25 de agosto de 2009
- LBI Lei nº 13.146 (sancionada em 6 de julho de 2015)

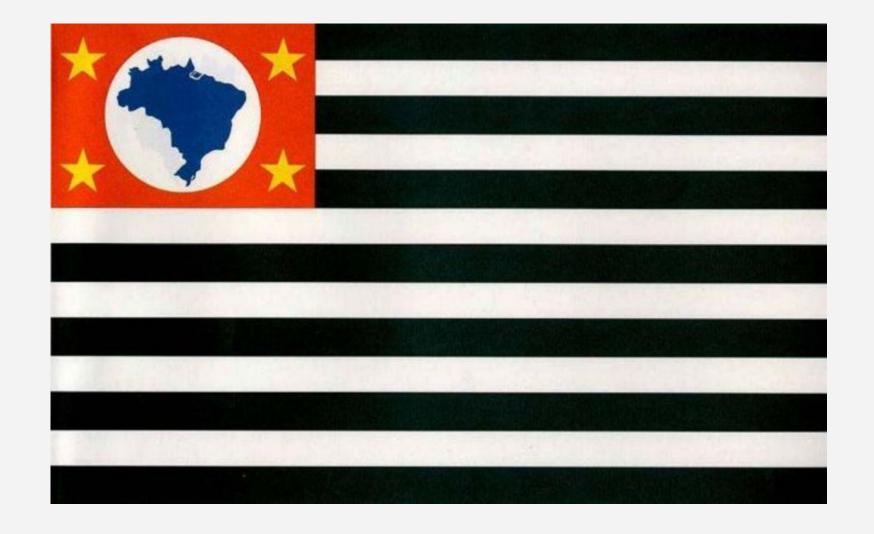
# Tipos de deficiência





### São Paulo

### 46.289.333 pessoas



### Argentina

### 45.386.286 pessoas





# Como testar acessibilidade?







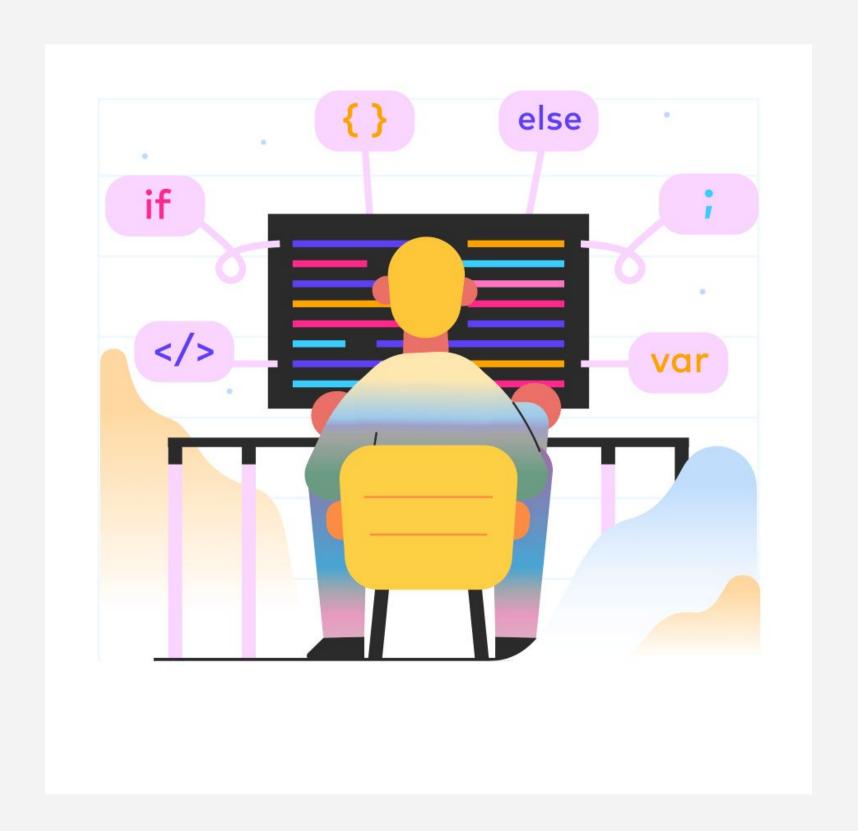
Cada diretriz tem um critério de sucesso testável

Cada critério tem um nível de conformidade:

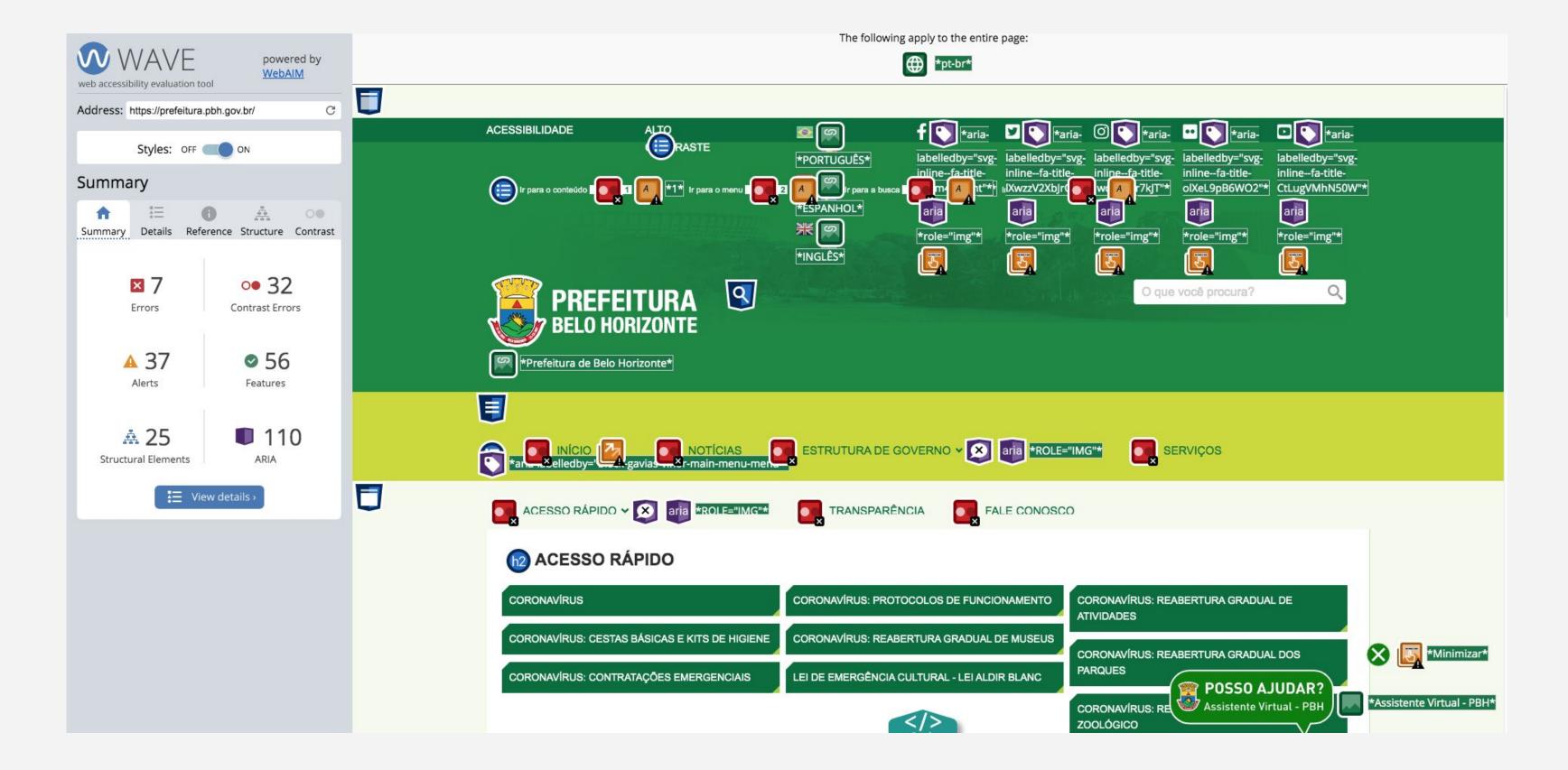
Nível A - mais básico Nível AA - intermediário Nível AAA - avançado

### ESTUDO DE CASO

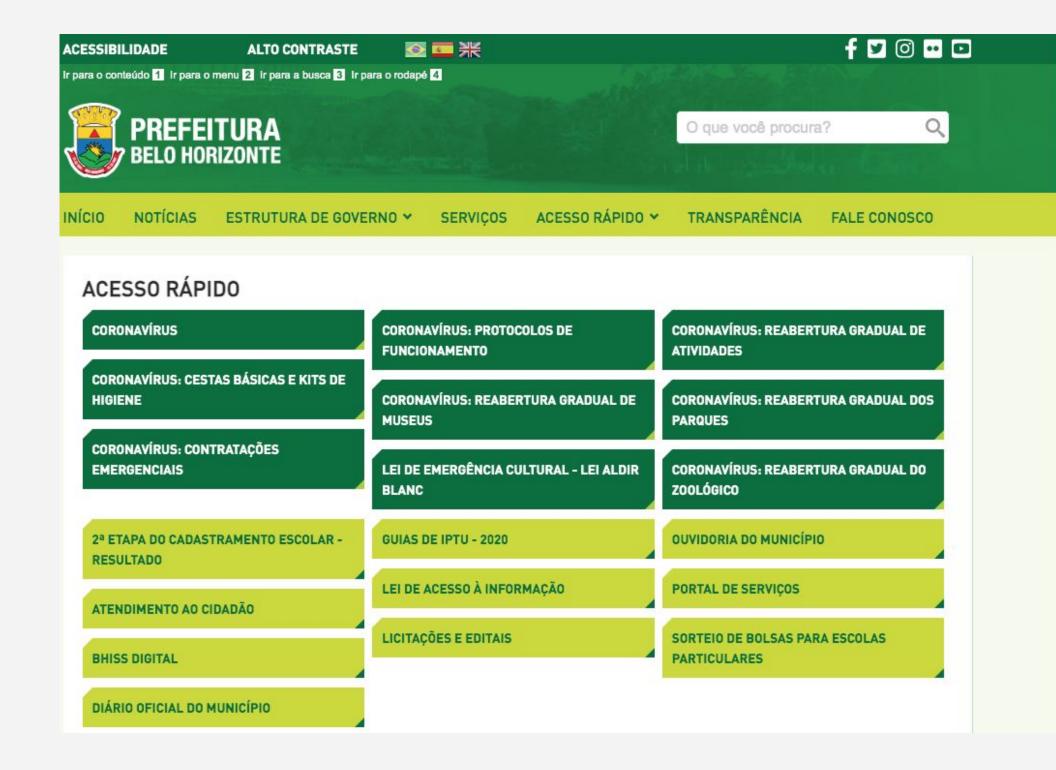
PREFEITURA DE BELO HORIZONTE

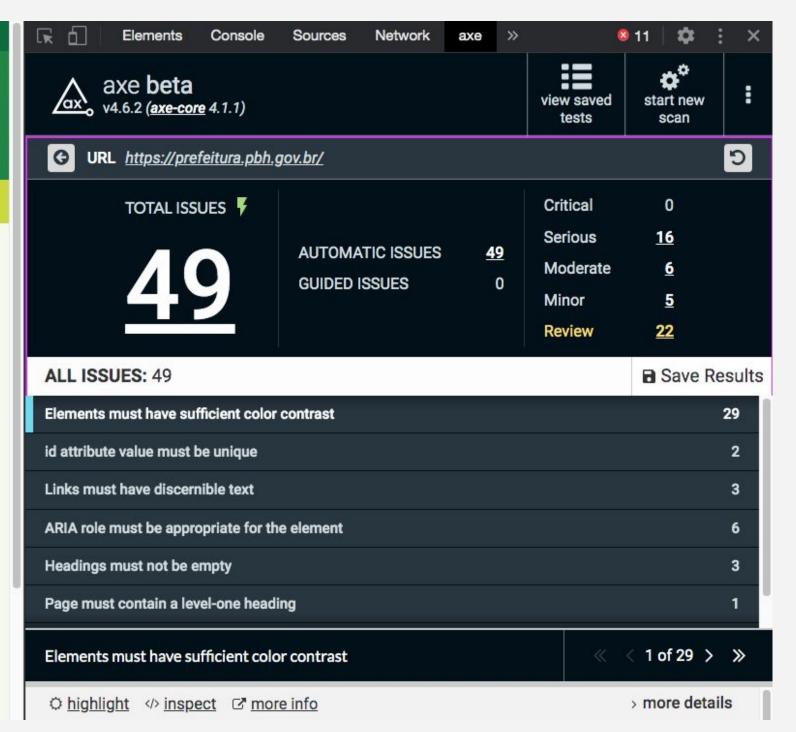


#### **WAVE WebAIM**

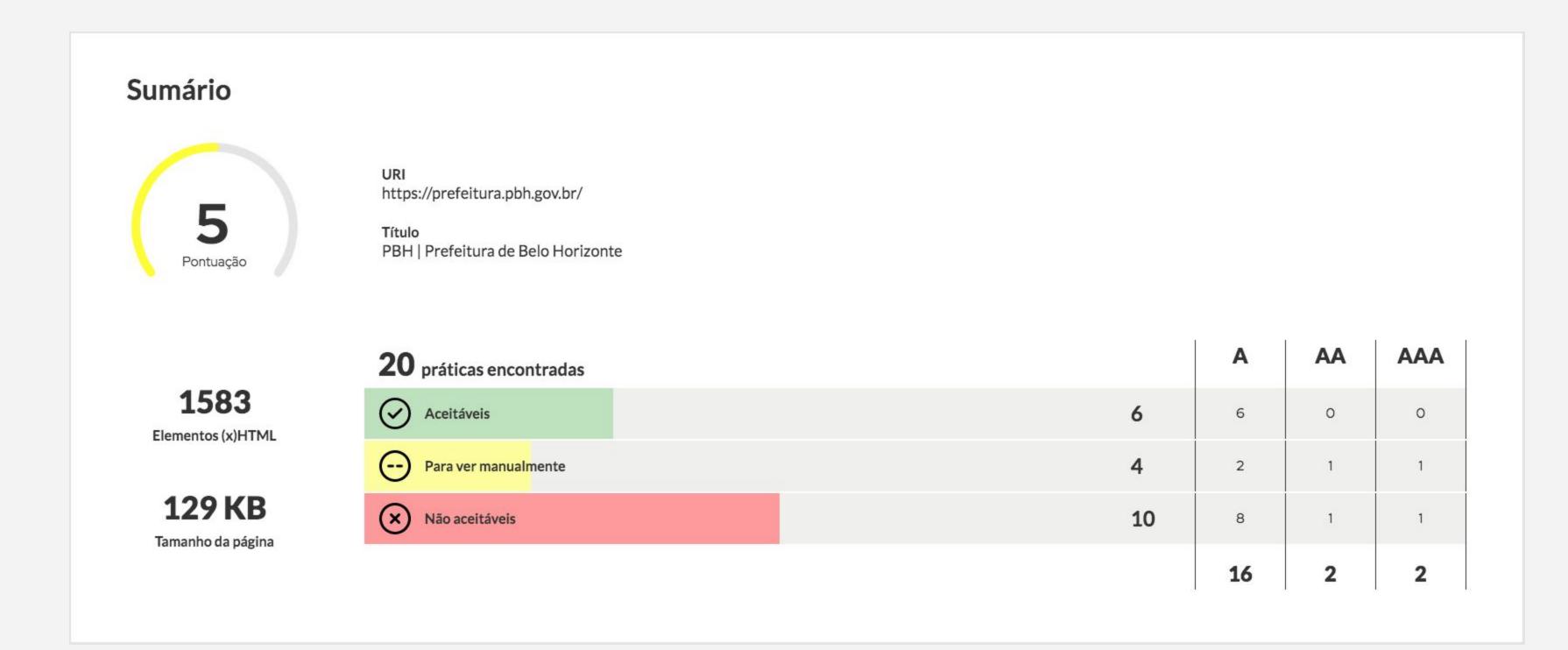


#### extensão chrome - axe





### **Access Monitor**







https://github.com/brunopulis/cypress-a11y-agxp

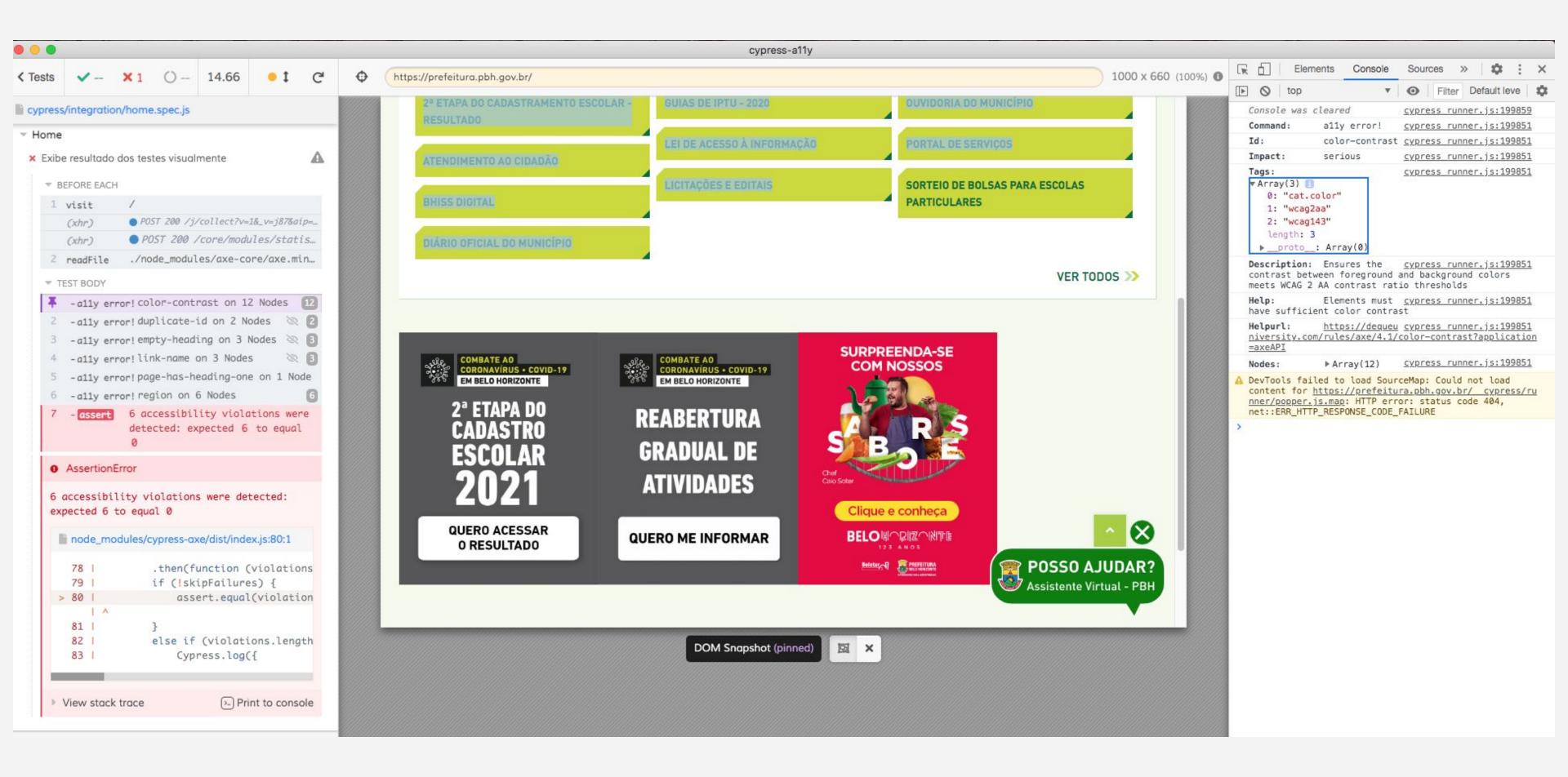


```
1 // cypress.json
3 {
    "baseUrl": "https://prefeitura.pbh.gov.br",
    "projectId": "yrbbhh"
6 }
                                                              carbon.now.sh
```

```
1 // cypress/support/index.js
2
3 import 'cypress-axe'
4 import './commands'
5
```

```
. . .
 1 // cypress/integration/home.spec.js
 2
 3 /// <reference types="cypress" />
 4
 5 describe('Home', () => {
     beforeEach(() => {
      cy.visit('/')
      cy.injectAxe()
 8
     })
 9
10
     it('Exibe resultado dos testes visualmente', () => {
       cy.checkAlly()
12
13 })
14 })
```





### avançando...

```
. . .
 8 module.exports = (on, config) => {
 9 on('task', {
       log(message) {
10
        console.log(message)
11
12
        return null
13
14
      table(message) {
15
        console.table(message)
16
17
        return null
18
19
20 })
21 }
22
```

```
. .
 3 function terminalLog(violations) {
 4 cy.task(
 5 'log',
 6 `\{\text{violations.length}\} accessibility violation\{\text{violations.length} === 1 ? '' : 's'
 7 } ${violations.length === 1 ? 'was' : 'were'} detected`
11 const violationData = violations.map(
12 ({ id, impact, description, nodes }) => ({
14
       impact,
15 description,
16     nodes: nodes.length
17 })
20 cy.task('table', violationData)
24
25 describe('Home', () => {
26 beforeEach(() => {
28 cy.injectAxe()
29 })
31 it('Exibe resultado dos testes no terminal', () => {
32 cy.checkAlly(null, null, terminalLog)
33 })
34 })
```

Running: home\_avancado.spec.js (1 of 2)

Home 6 accessibility violations were detected

(index)	id	impact	description	nodes
0 1 2 3 4 5	'color-contrast' 'duplicate-id' 'empty-heading' 'link-name' 'page-has-heading-one' 'region'	'serious' 'minor' 'minor' 'serious' 'moderate' 'moderate'	'Ensures the contrast between foreground and background colors meets WCAG 2 AA contrast ratio thresholds'  'Ensures every id attribute value is unique'  'Ensures headings have discernible text'  'Ensures links have discernible text'  'Ensure that the page, or at least one of its frames contains a level—one heading'  'Ensures all page content is contained by landmarks'	12 2 3 3 1 6

1) Exibe resultado dos testes no terminal

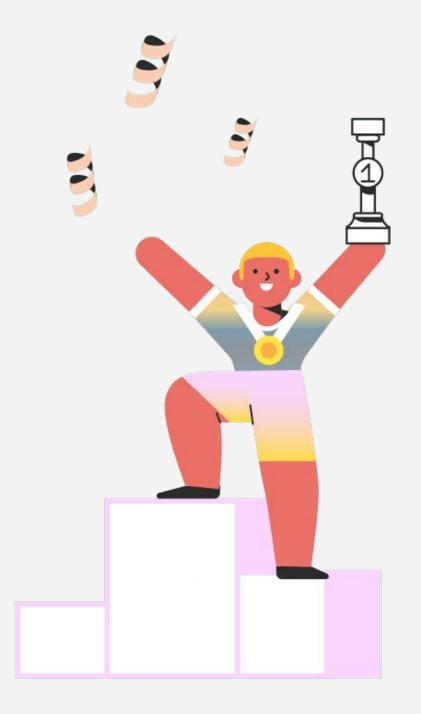
0 passing (35s) 1 failing

#### 1) Home

Exibe resultado dos testes no terminal:

AssertionError: 6 accessibility violations were detected: expected 6 to equal 0 at Context.eval (https://prefeitura.pbh.gov.br/\_\_cypress/tests?p=cypress/support/index.js:790:20)

### TIPS & TRICKS



# Awesome A11y ( 1.2k)



## Awesome Cypress ( $\star$ 71)





