

Tester l'accessibilité













de son application React

L'accessibilité concerne ...

Tous les utilisateurs

Les types de handicap

Source et copyright : Microsoft

	Permanent	Temporary	Situational
Touch	 One arm	 Arm injury	 New parent
See	 Blind	 Cataract	 Distracted driver
Hear	 Deaf	 Ear infection	 Bartender
Speak	 Non-verbal	 Laryngitis	 Heavy accent

L'accessibilité

c'est quoi ?

L'accessibilité du web est la problématique de l'accès aux contenus et services web par les personnes handicapées [...] et plus généralement par tous les utilisateurs, quels que soient leurs dispositifs d'accès (mobile, tablette, etc.) ou leurs conditions d'environnement (niveau sonore, éclairement, etc.).

Source : Wikipédia

Les normes pour l'accessibilité

Web Content Accessibility Guidelines

Standard : WCAG 2.0

Mobile : WCAG 2.1

En France : RGAA (Référentiel Général d'Accessibilité pour les Administrations)

Les différents outils de test

Il y en a un paquet...

Google Lighthouse

Outil de colorisation de Material

colorsafe.co

pAlly




Axe-core


Librairie open source

Créé par Deque

Ambassadrice : Marcy Sutton

Utiliser le plugin axe-coconut

axe
Coconut




All issues found 24 ▾

Run again

Images must have alternate text	1
Text of buttons and links should not be repeated in the image alternative	5
Form elements should have a visible label	1
Page must contain a level-one heading	1
All page content must be contained by landmarks	1
Elements must have sufficient color contrast	9
Hidden content on the page cannot be analyzed	5
CSS Media queries are not used to lock display orientation	1


Images must have alternate text

</> Inspect Node  Highlight

Issue description

Ensures elements have alternate text or a role of none or presentation

Impact: **critical**

 [Learn more](#)


Element location

`.slogan.img-responsive`

Element source

```

```



<< < 1 of 1 > >>

To solve this violation, you need to:

Fix at least one (1) of these issues:

- Element does not have an alt attribute
- aria-label attribute does not exist or is empty
- aria-labelledby attribute does not exist, references elements that do not exist or references elements that are empty
- Element has no title attribute or the title attribute is empty
- Element's default semantics were not overridden with role="presentation"
- Element's default semantics were not overridden with role="none"

NPM

♥

Nine Pedestrians Mesmerized

npm Enterprise

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axe-core

3.1.2 • Public • Published 4 months ago

Readme

0 Dependencies

67 Dependents

56 Versions

axe-core

Greenkeeper enabled

license MPL-2.0

npm v3.1.2

downloads 7M

commit activity 320/year

contributors 78

gitter join chat

quality ★★★★★½

The Accessibility Engine for automated testing of HTML-based user interfaces. Drop the aXe on your accessibility defects!

Thanks for helping us to make axe-core the most widely used HTML accessibility testing library in the galaxy! Share your axe-core story using #axecoresquad or by submitting it [here](#) to get a sweet T-shirt.

Philosophy

We believe that automated testing has an important role to play in achieving digital equality and that in order to do that, it must achieve mainstream adoption by professional web developers. That means that the tests must inspire trust, must be fast, must work everywhere and must

install

> npm i axe-core

± weekly downloads

156 051

version

3.1.2

license

MPL-2.0

open issues

160

pull requests

3

homepage

github.com

repository

github

last publish

6 days ago

collaborators

Exécuter un test simple

Avec axe-core

```
import React from 'react'
import { run } from 'axe-core'
import { Input } from './Input.component'

describe('<Input />', () => {

  it('should test axe core with jest plugin', done => {
    run(element, {}, (error, result) => {
      expect(error).toBeNull()
      expect(result.violations.length).toBe(0)

      if (result.violations.length > 0) {
        console.error(result.violations)
      }

      done()
    })
  })
})
```

Exécuter un test avec jest

Avec jest-axe

```
import React from 'react'
import ReactDOMServer from 'react-dom/server'
import { axe as jestAxe } from 'jest-axe'
import { Input } from './Input.component'

describe('<Input />', () => {

  beforeEach(() => {
    html = ReactDOMServer.renderToString(<Input
    {...props} />)
  })

  it('should test axe core with jest plugin', async () => {
    {
      const results = await jestAxe(html)
      expect(results).toHaveNoViolations()
    }
  })
})
```

Passer une règle

```
it('should test axe core with jest plugin', async
() => {
  const results = await jestAxe(html, {
    rules: {
      // for demonstration only, don't disable
      rules that need fixing.
      'label': { enabled: false }
    }
  })
  expect(results).toHaveNoViolations()
})
```

Les règles

<https://github.com/deque-labs/axe-core/blob/master/doc/rule-descriptions.md>

Code

Issues 164

Pull requests 10

Projects 3

Insights

Branch: master axe-core / doc / rule-descriptions.md

Find file Cop

WilcoFiers Release v3.1.0 (#1102) 773e6dc on 27 Aug

11 contributors

75 lines (75 sloc) 10.7 KB

Raw Blame History

Rule ID	Description	Impact	Tags	Enabled by default
accesskeys	Ensures every accesskey attribute value is unique	Serious	best-practice, cat.keyboard	true
area-alt	Ensures <area> elements of image maps have alternate text	Critical	cat.text-alternatives, wcag2a, wcag111, section508, section508.22.a	true
aria-allowed-attr	Ensures ARIA attributes are allowed for an element's role	Critical	cat.aria, wcag2a, wcag412	true
aria-allowed-role	Ensures role attribute has an appropriate value for the element	Minor	cat.aria, best-practice	true
aria-dpub-role-fallback	Ensures unsupported DPUB roles are only used on elements with implicit fallback roles	Moderate	cat.aria, wcag2a, wcag131	true
aria-hidden-body	Ensures aria-hidden='true' is not present on the document body.	Critical	cat.aria, wcag2a, wcag412	true
aria-required-attr	Ensures elements with ARIA roles have all required ARIA attributes	Critical	cat.aria, wcag2a, wcag412	true
aria-required-children	Ensures elements with an ARIA role that require child roles contain them	Critical	cat.aria, wcag2a, wcag131	true

Exécuter un test e2e

avec Cypress

```
context('Axe core test', () => {  
  
  beforeEach(() => {  
    cy.visit('/')  
    cy.injectAxe()  
  })  
  
  it('Has no a11y violations after button click',  
    () => {  
    cy.get('button').click()  
    cy.checkA11y()  
  })  
  
})
```

Conclusion

Permet de tester par composant

Permet de tester l'UI

Ne couvre pas tous les besoins

- 30 à 50 % des problèmes

Ne remplace les tests humains

Questions ?

sources

axe: <https://www.deque.com/axe/>

jest-axe: <https://github.com/nickcolley/jest-axe>

microsoft inclusive design:

https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=2&ved=2ahUKEwikyYT5mPXfAhUO6KQKHWrWDtMQFjABegQICBAC&url=https%3A%2F%2Fdownload.microsoft.com%2Fdownload%2Fb%2F0%2Fd%2Fb0d4bf87-09ce-4417-8f28-d60703d672ed%2Finclusive_toolkit_manual_final.pdf&usg=AOvVaw1Ni34OZmkFkFTU4RMchslw