Web accessibility in practice, more than just WCAG

Tim Damen
6 June 2024
FrontendNation

Hello, I’m Tim Damen

```
{
    "Front-end dev",
    "Accessibility lead",
    "www.timdamen.io"
}
```

WHY WEB ACCESSIBILITY

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To not exclude anyone.

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If you do not exclude anyone.

You have a larger potentional user base.

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If you have a larger user base. More people will be able to use your service or buy your product.

And everyone will have an equal experience.

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WHY WEB ACCESSIBILITY

It’s also about energy and time

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Tip: include people with disabilities.

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It’s also about energy and time

Tip: include people with disabilities.

Invite them to take part in every step of the development life cycle.

STATS OF PEOPLE USING YOUR APP

1.3 billion

People experience significant disability

www.who.int

STATS OF PEOPLE USING YOUR APP

10%

Dyslectic

eda-info.eu

4.5%

Colour blind

colourblindawareness.org (1 in 12 men, 1 in 200 women)

9%

Motor impairment

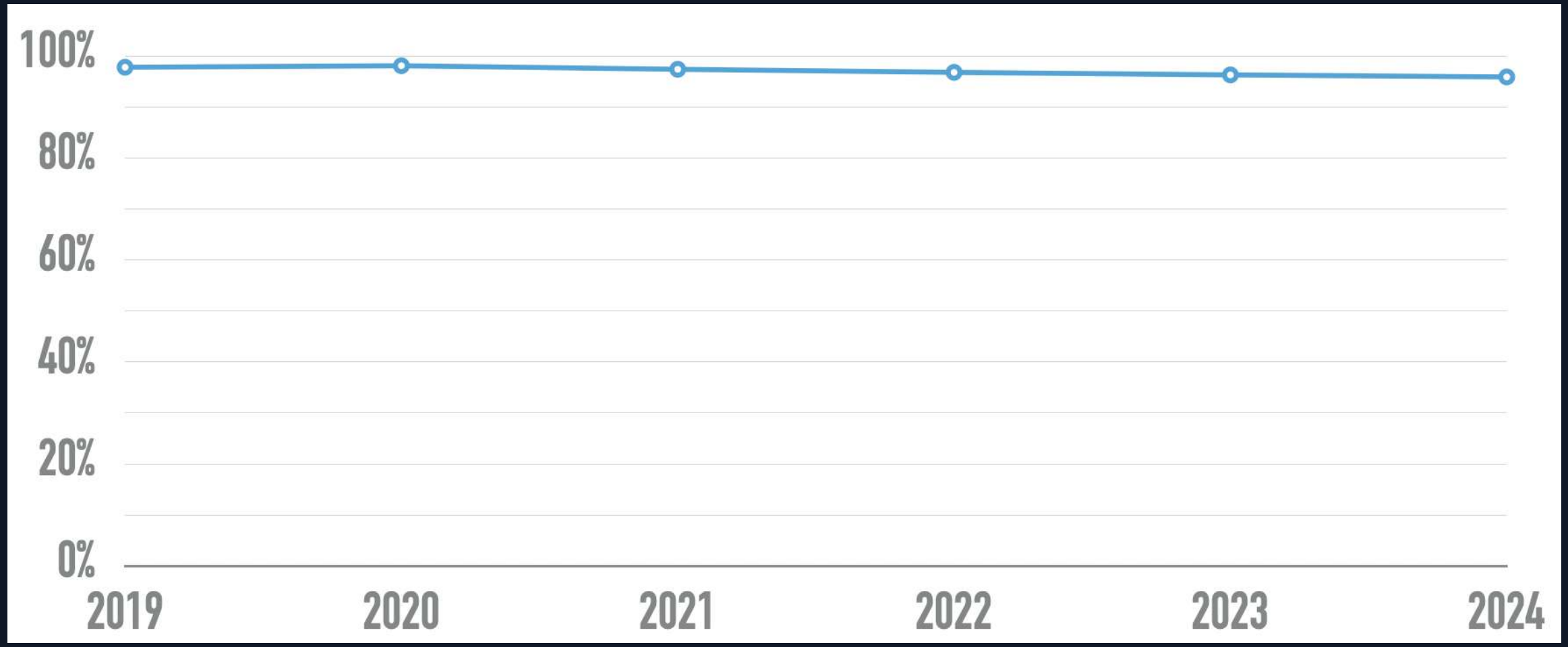
handicap.nl

6%

Blind/partially sighted

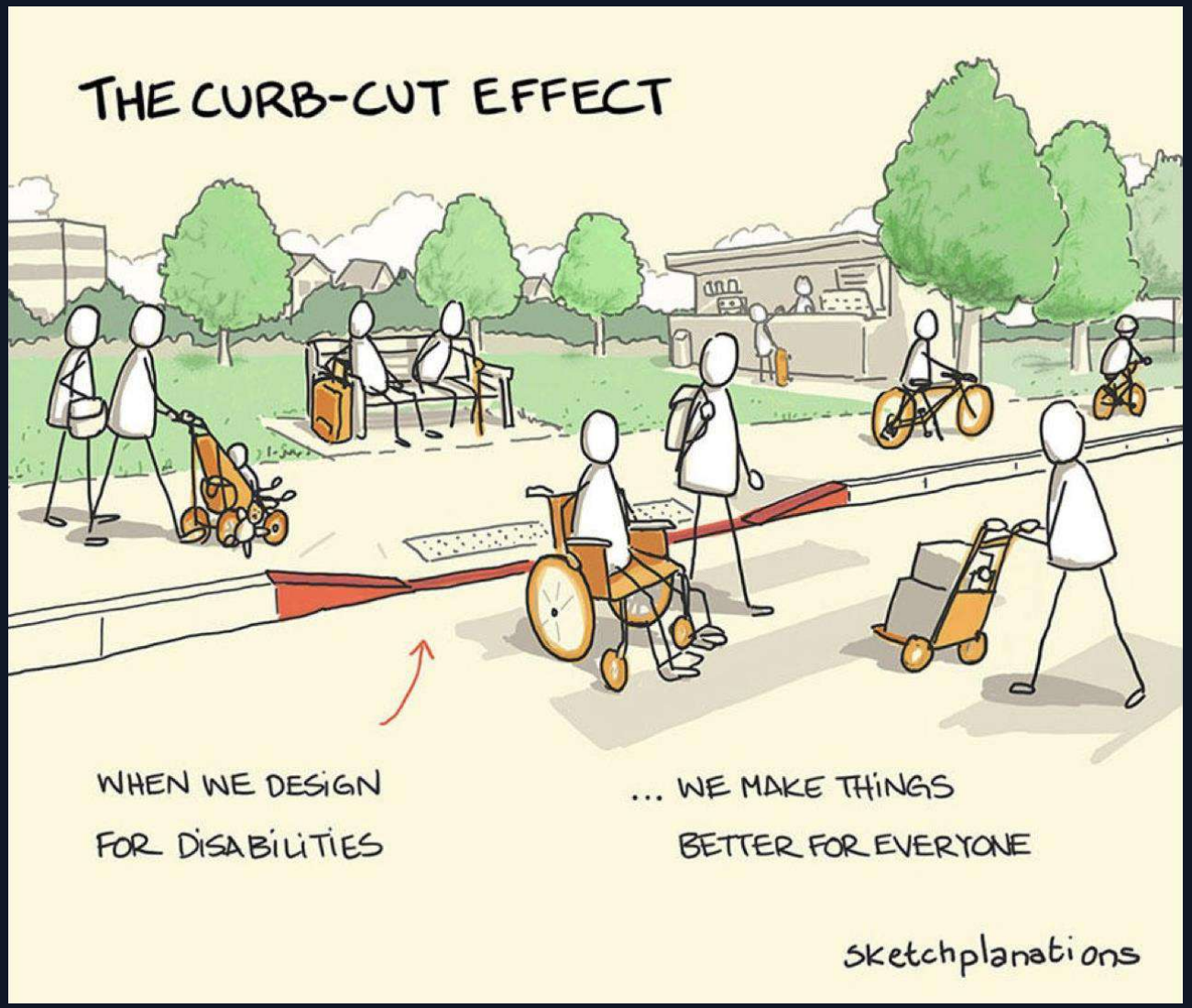
euroblind.org

95.9% HOME PAGES DETECTED WCAG FAILURE



https://webaim.org/projects/million/

HELPING EVERYONE



https://sketchplanations.com/the-curb-cut-effect

YOU NEVER KNOW WHEN THE TIME COMES

Pic by Nicole Ortiz Franco (https://nicoleortizfranco.nl) 💔

WHAT IS WCAG

Web Content Accessibility Guidelines

WCAG 2.2

Internationally defined guidelines that provide a baseline for web accessibility

https://www.w3.org/TR/WCAG22/

WCAG 2.2

Internationally defined guidelines that provide a baseline for web accessibility

2.2 is the latest version.

https://www.w3.org/TR/WCAG22/

WCAG 2.2

- Principles (4)
  - Perceivable 👀
  - Operable ⚙️
  - Understandable 💡
  - Robust 💪

https://www.w3.org/TR/WCAG22/

WCAG 2.2

- Principles (4)
    - Guidelines (13)

https://www.w3.org/TR/WCAG22/

WCAG 2.2

- Principles (4)
  - Guidelines (13)
    - Succescirteria (86)

https://www.w3.org/TR/WCAG22/

WCAG 2.2

- Principles
    - Guidelines
        - Succescirteria <- 3 levels

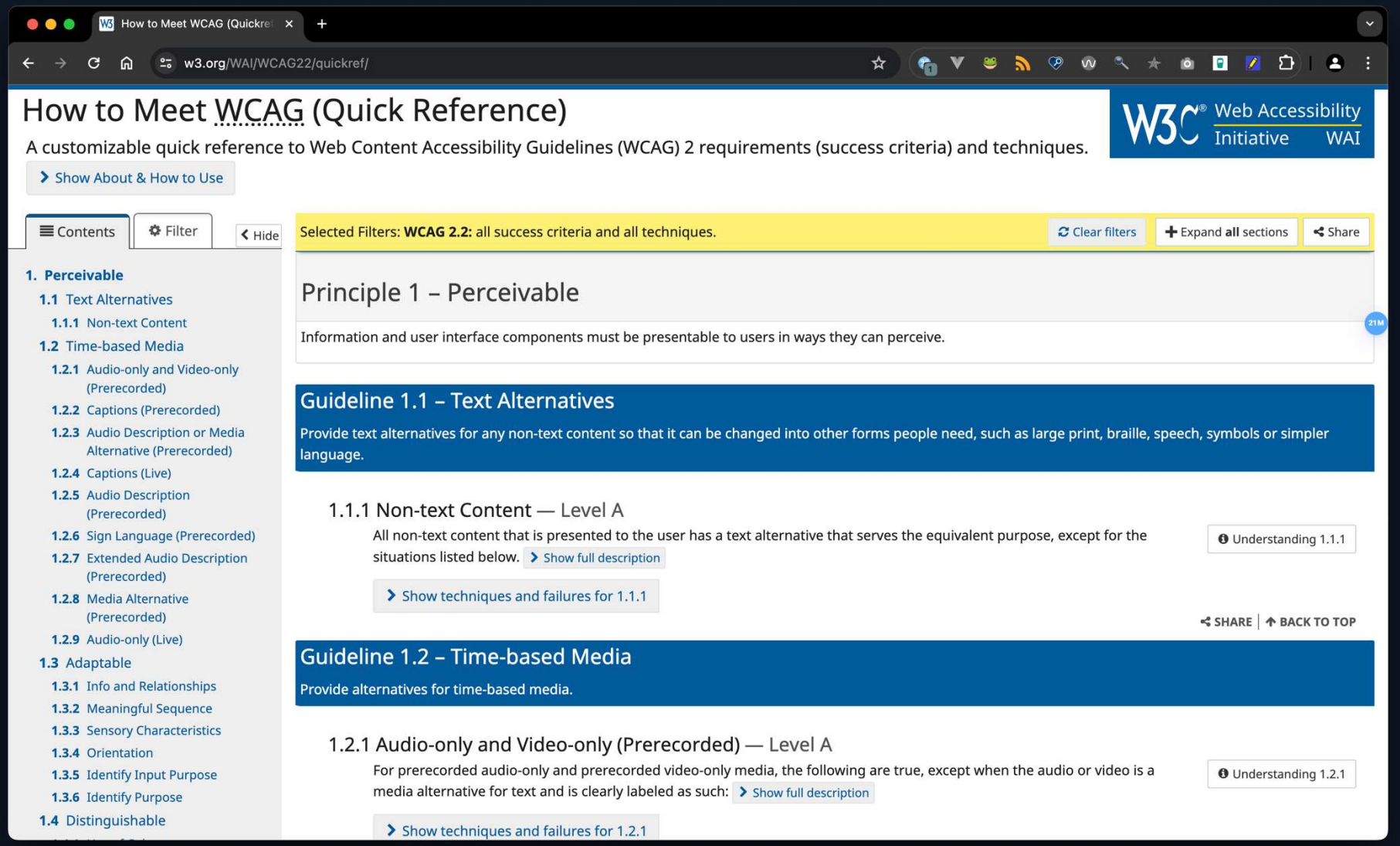
https://www.w3.org/TR/WCAG22/

WCAG 2.2

- Principles
  - Guidelines
    - Succescirteria <- 3 levels (A, AA, AAA)
      - 58 level A + AA successcriteria

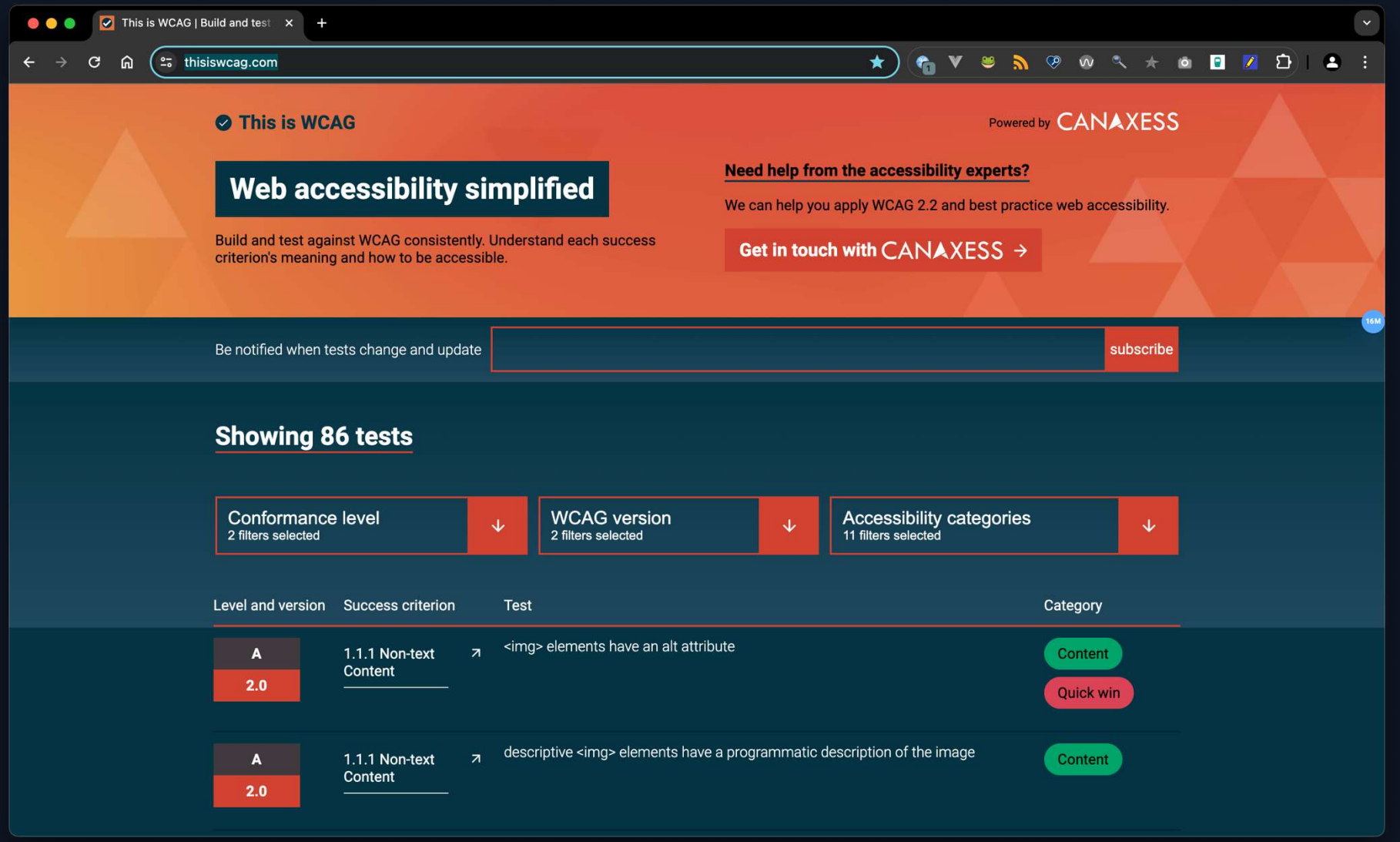
https://www.w3.org/TR/WCAG22/

HOW TO MEET WCAG



https://www.w3.org/WAI/WCAG22/quickref/

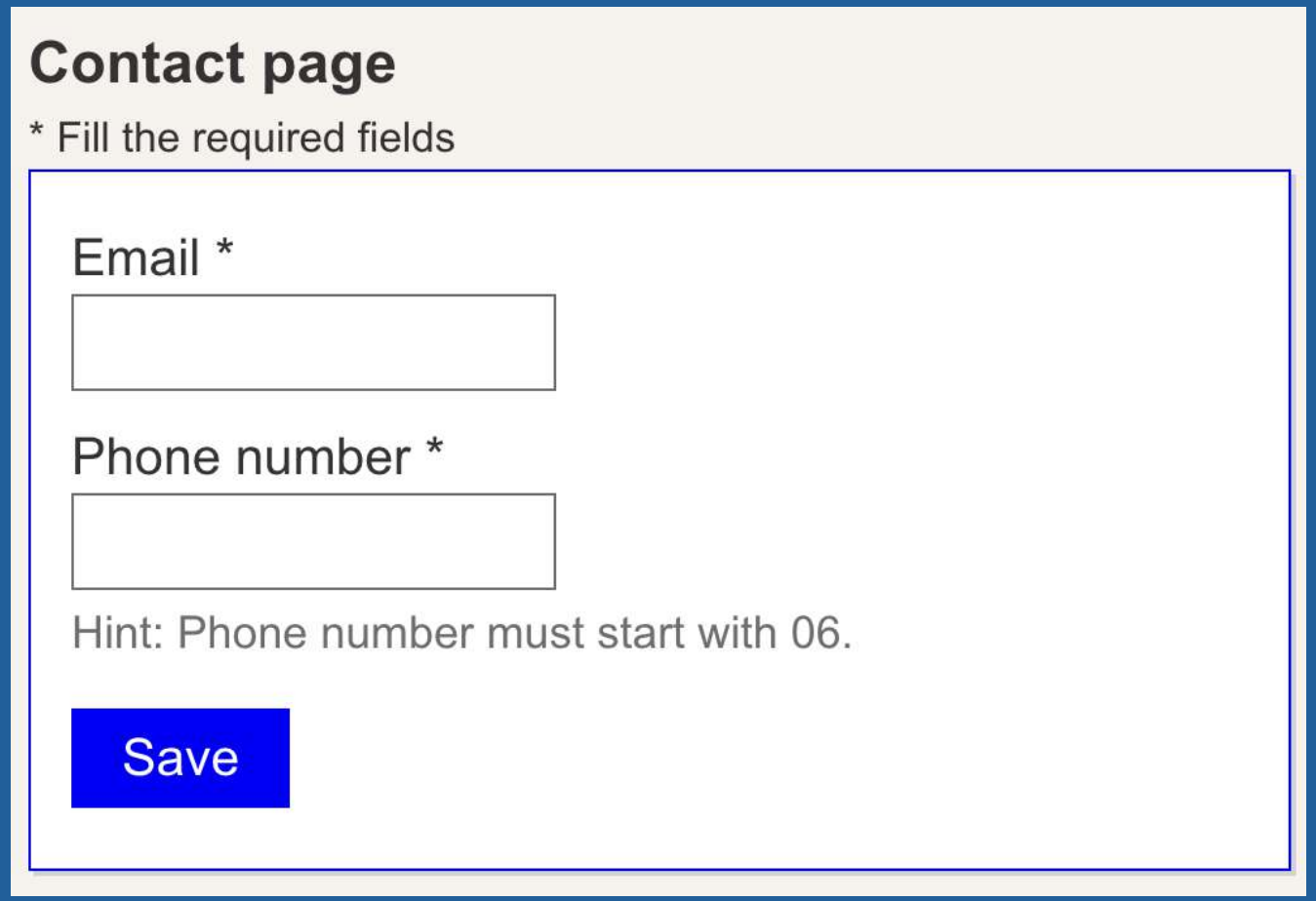
WCAG SIMPLIFIED



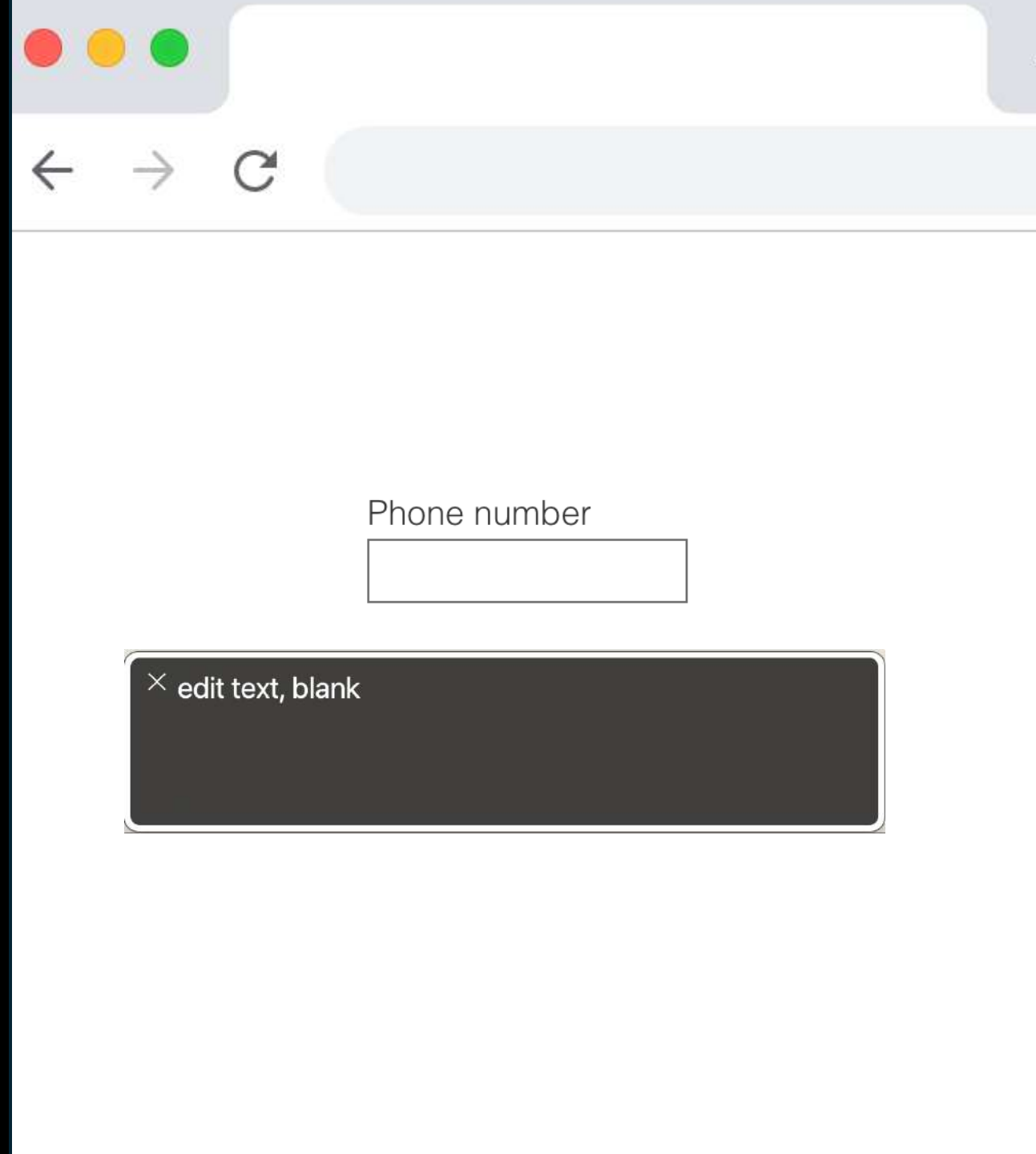
https://thisiswcag.com/

IN PRACTISE

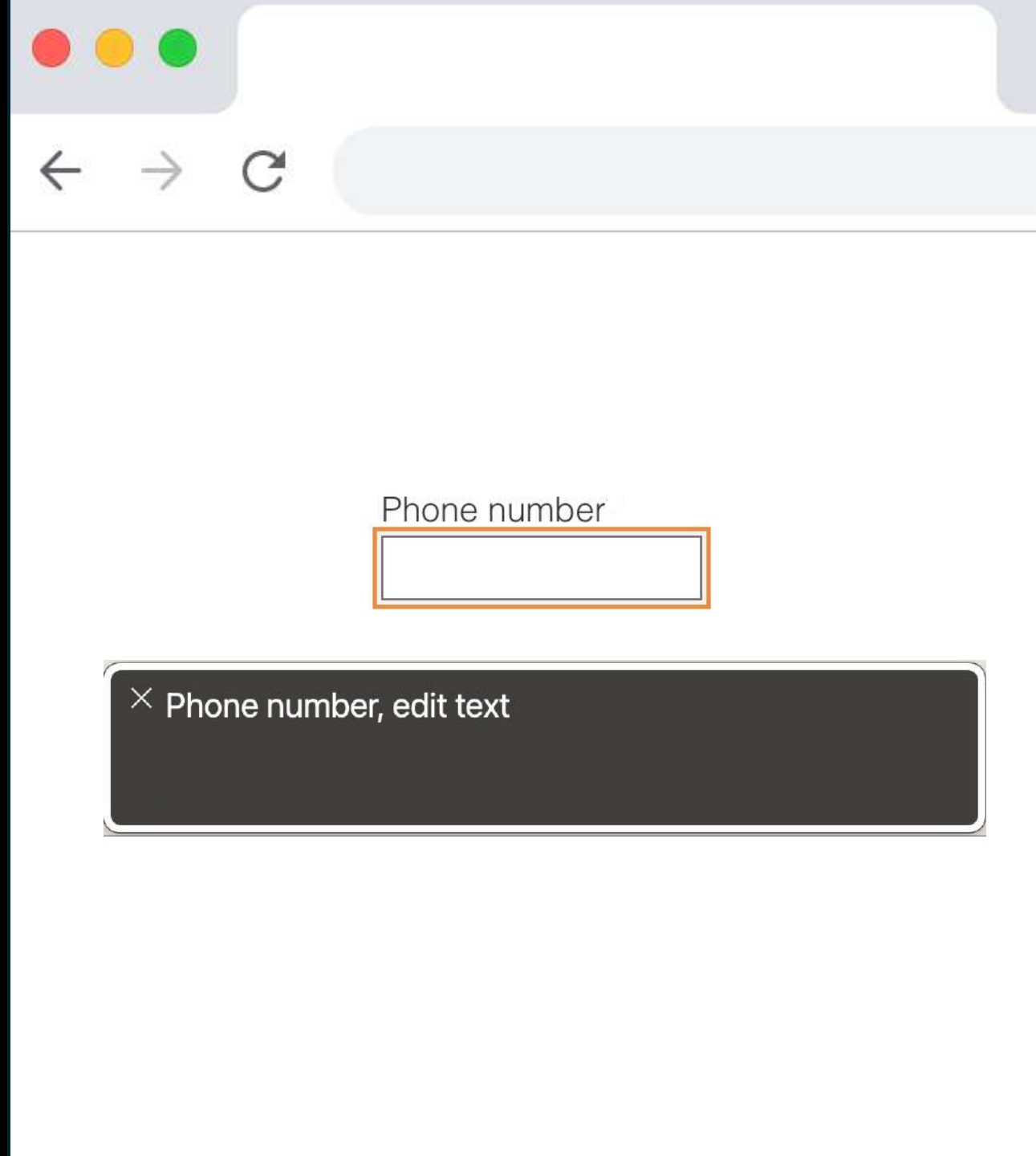
IN PRACTISE


Contact page
* Fill the required fields
Email *
Phone number *
Hint: Phone number must start with 06.
Save

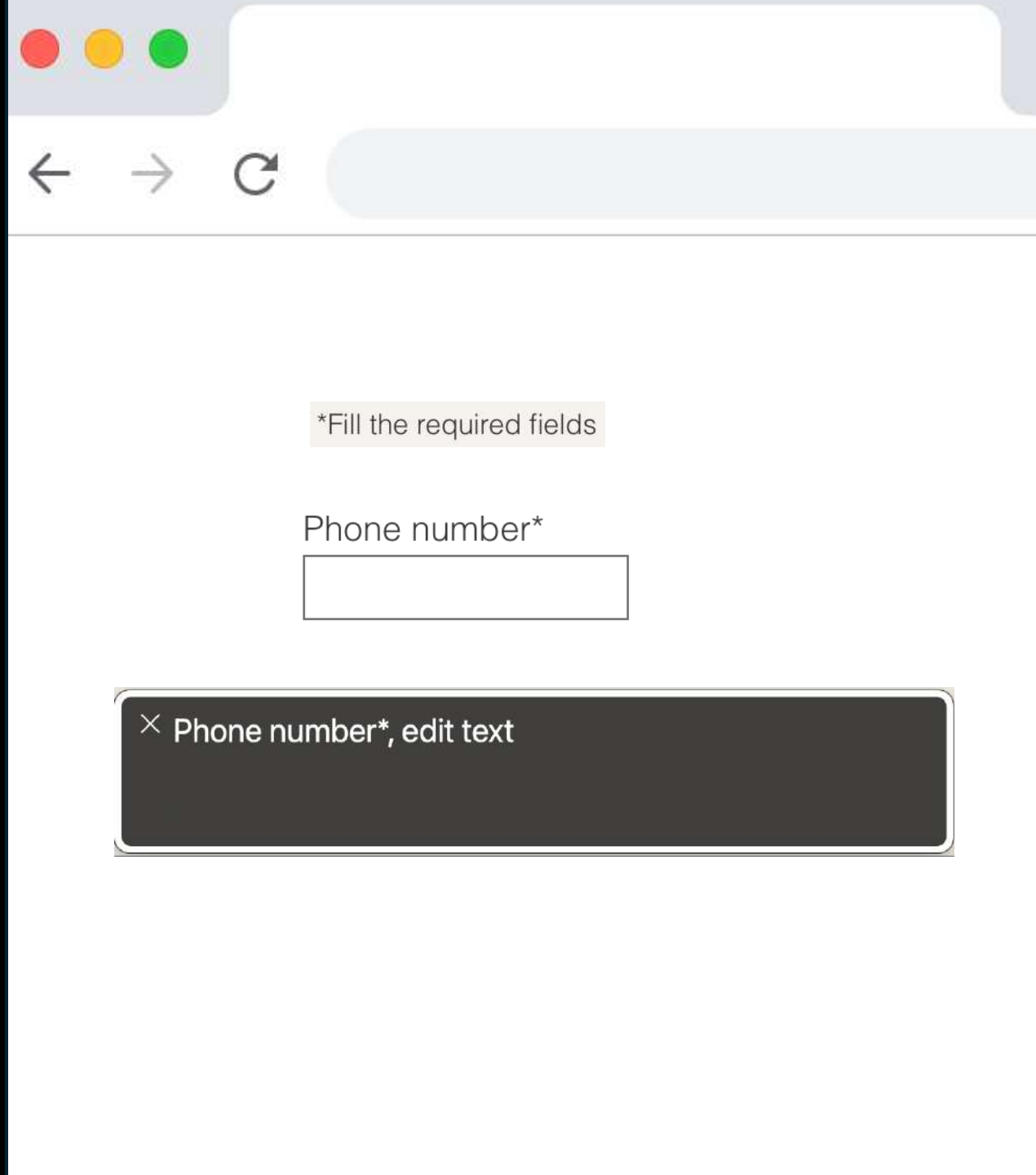
```
<label>Phone number</label>
<input type="phone"/>
```



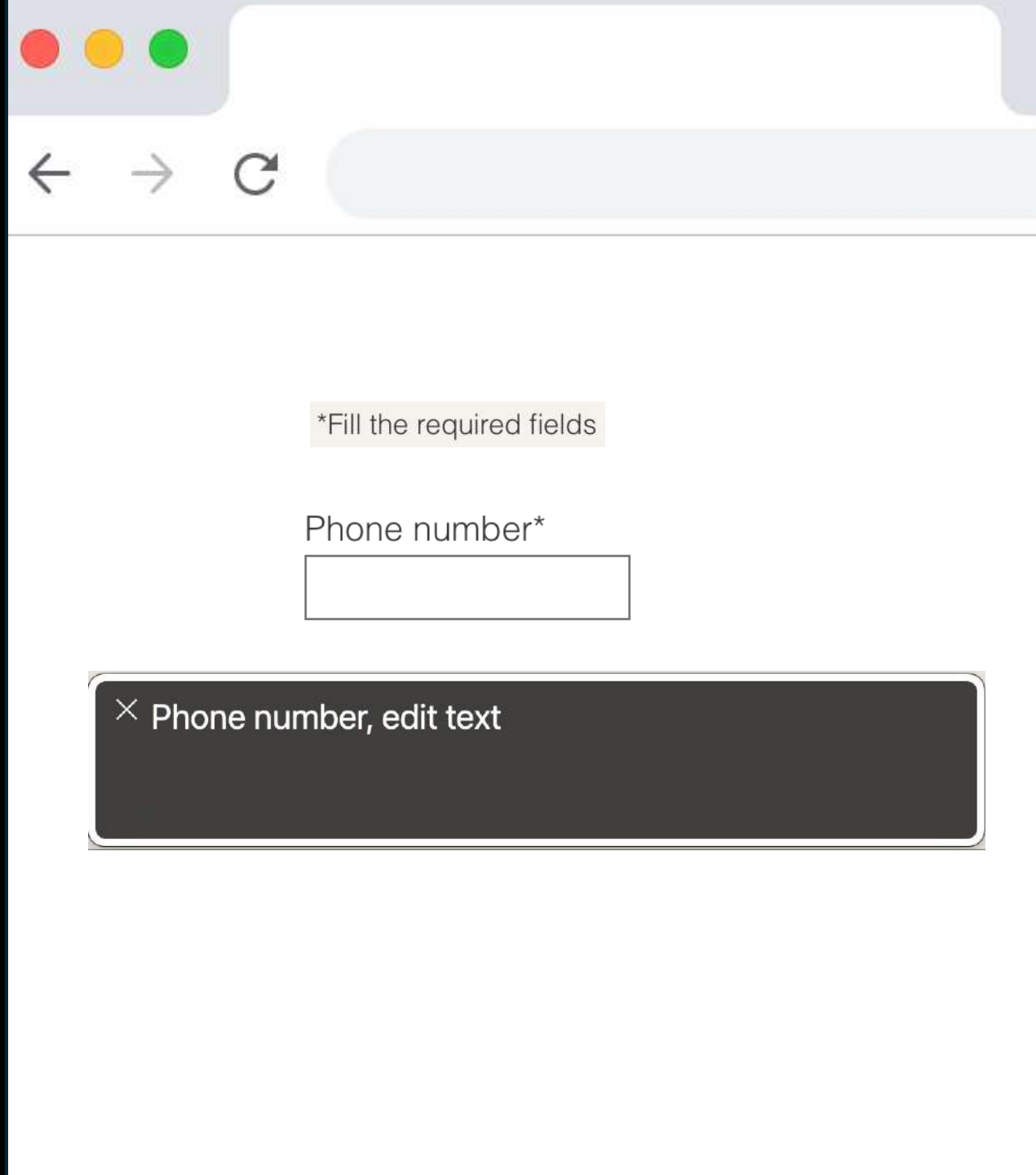
```
<label for="phone">Phone number</label>
<input id="phone" type="phone"/>
```



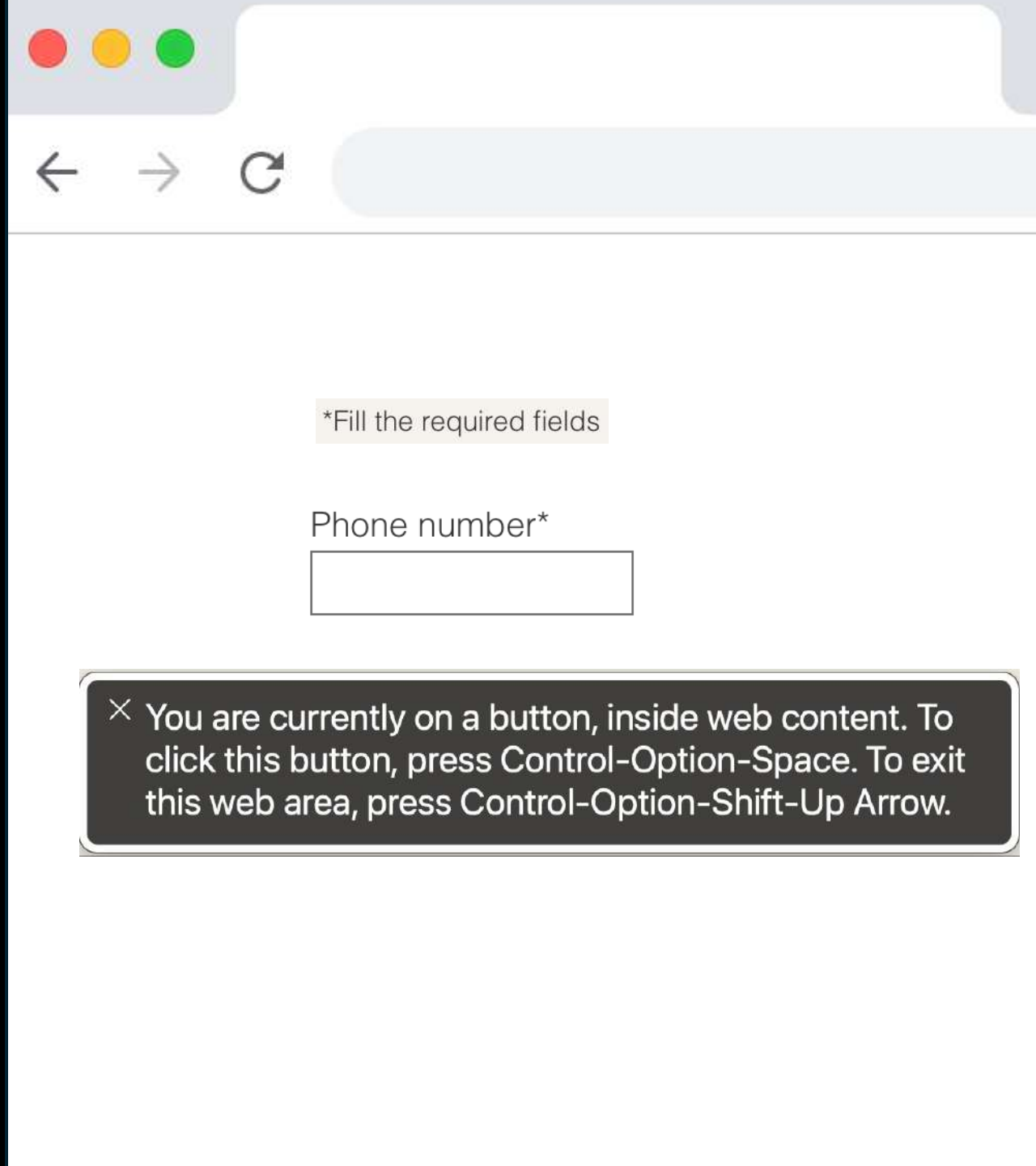
```
<label for="phone">Phone number*</label>
<input id="phone" type="phone"/>
```



```
<label for="phone">
  Phone number<span aria-hidden="true">*</span>
</label>
<input type="phone" id="phone"/>
```

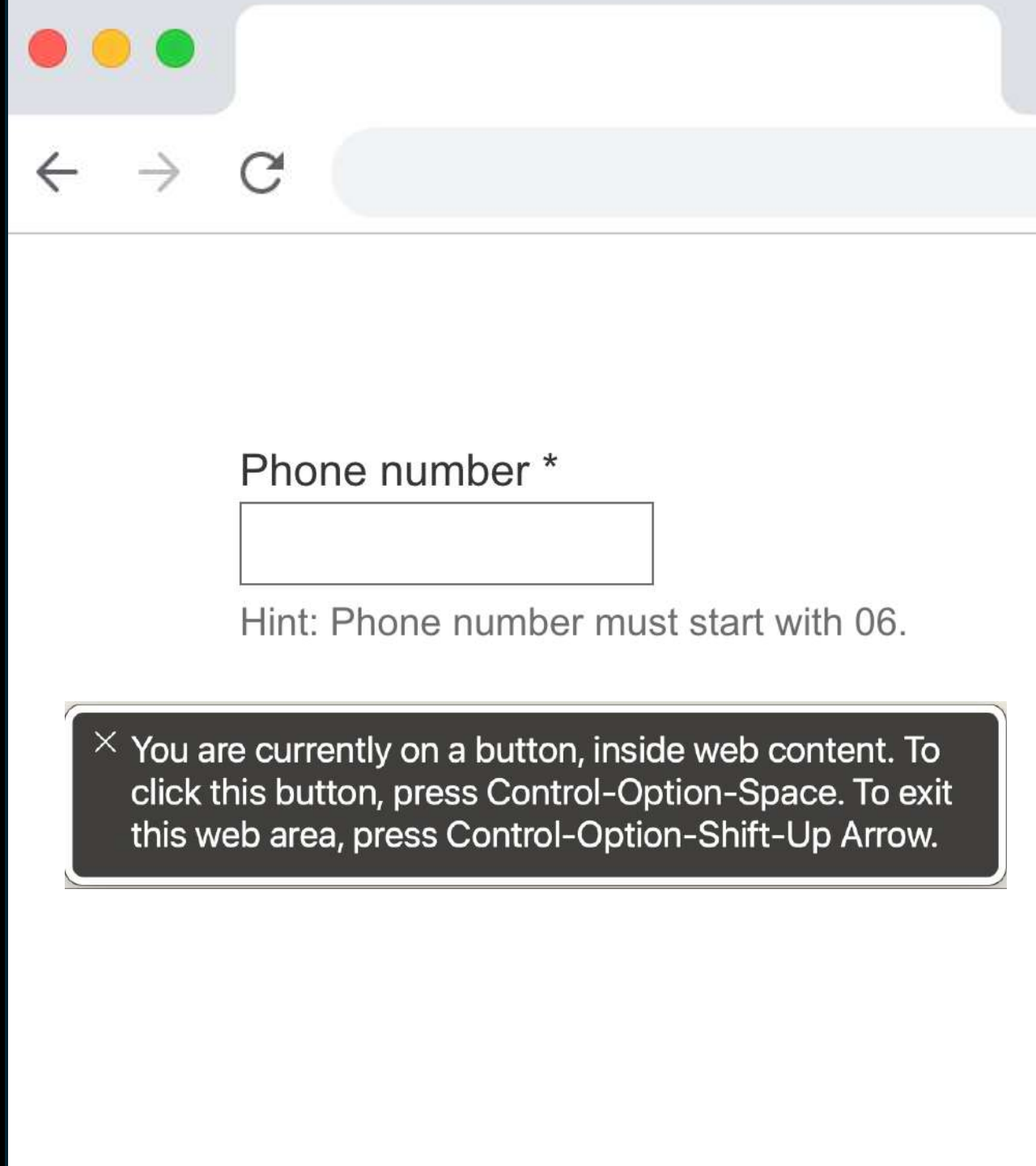


```
<label for="phone">
  Phone number<span aria-hidden="true">*</span>
</label>
<input type="phone" id="phone" aria-required="true"/>
```



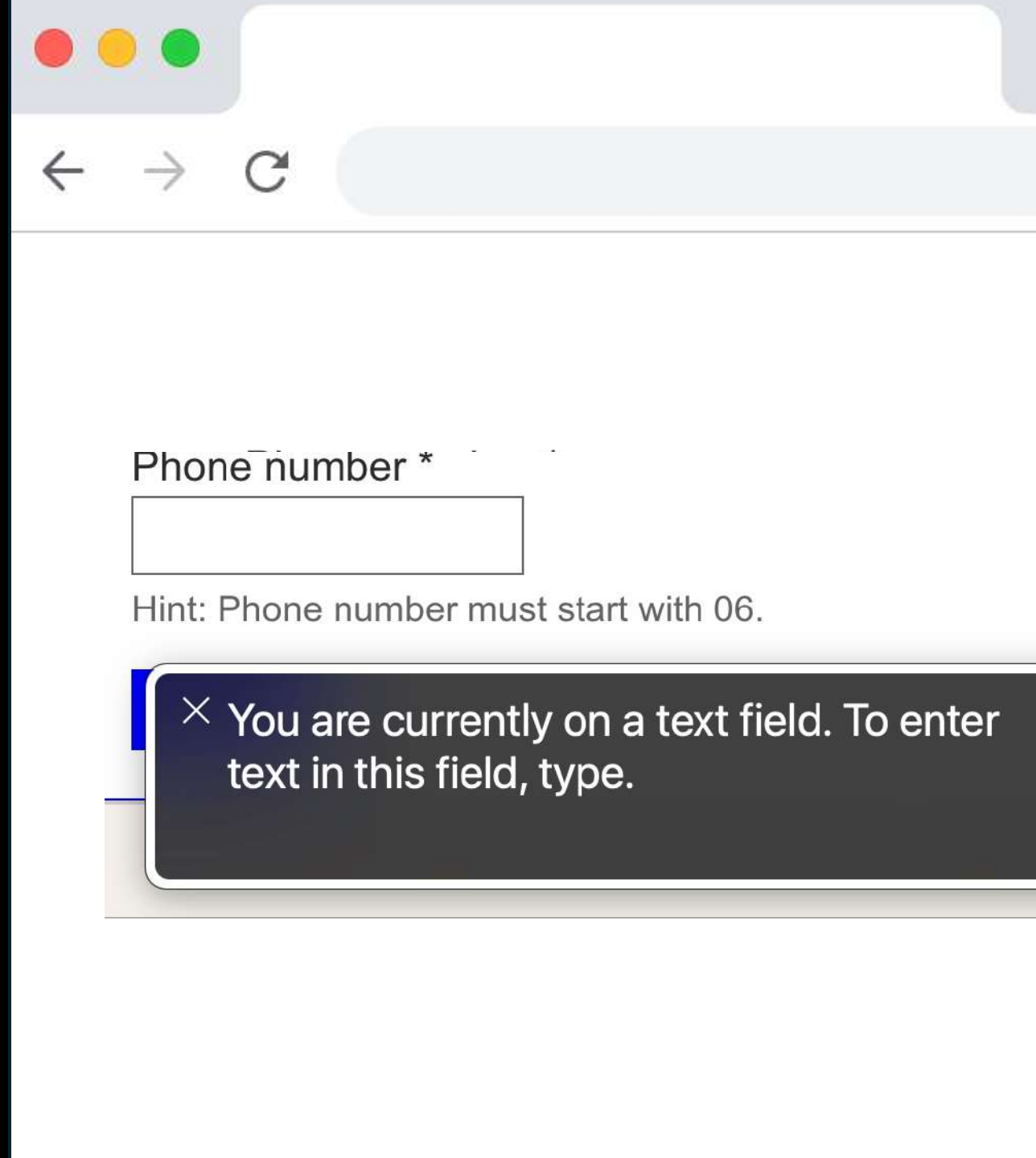
```html
<label for="phone">
  Phone number<span aria-hidden="true">*</span>
</label>
<input
  type="phone"
  id="phone"
  aria-required="true"
/>

<p>Hint: Phone number must start with 06.</p>
```



```html
<label for="phone">
  Phone number<span aria-hidden="true">*</span>
</label>
<input
  type="phone"
  id="phone"
  aria-required="true"
  aria-describedby="phoneHint"
/>

<p id="phoneHint">
  Hint: Phone number must start with 06.
</p>
```



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<label for="phone">
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</label>
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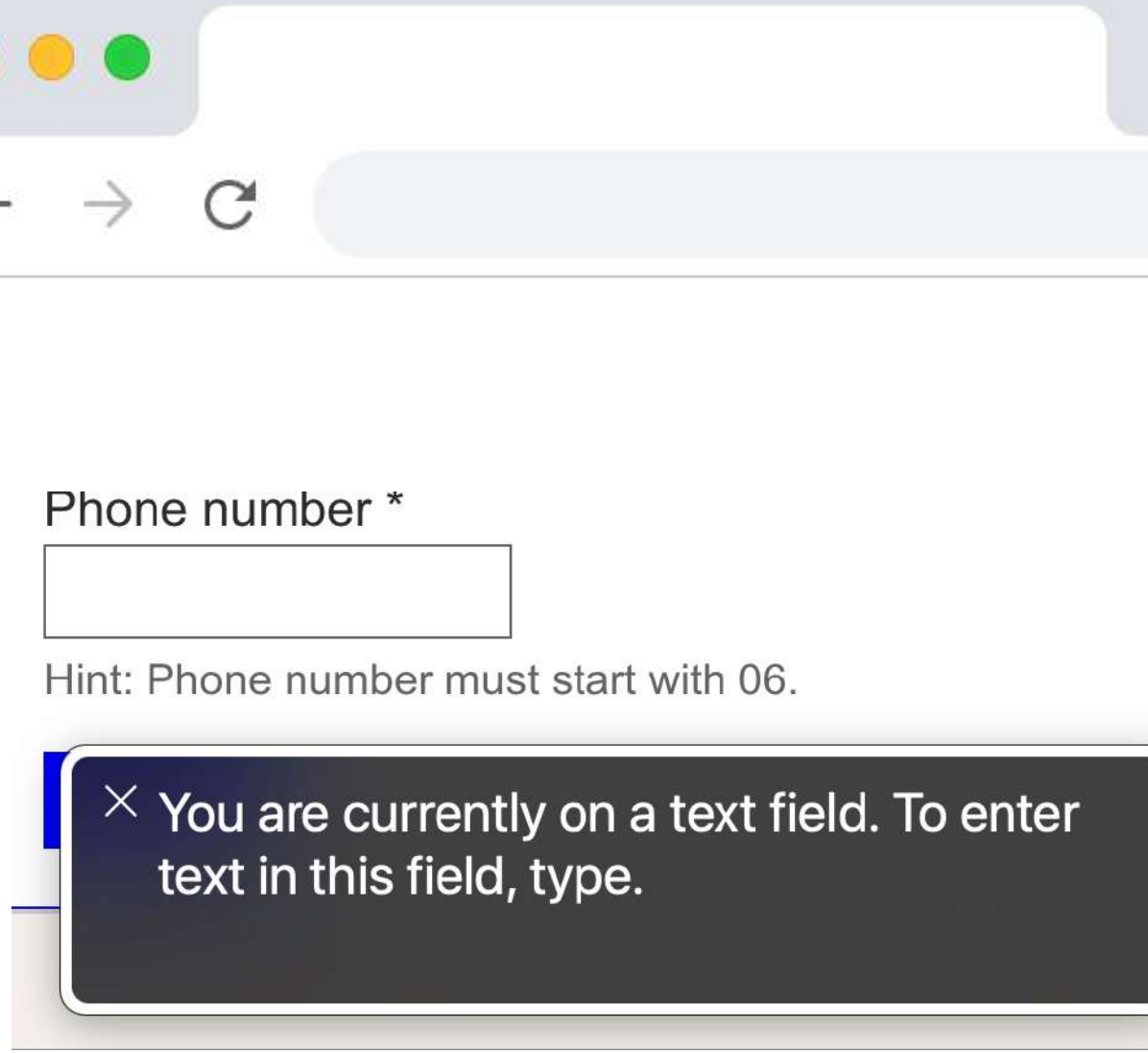
  id="phone"
  aria-required="true"
  aria-describedby="phoneHint"
/>

<p>Error: Phone number is required.</p>

<p id="phoneHint">
  Hint: Phone number must start with 06.
</p>
```



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<label for="phone">
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</label>
<input
  type="phone"
  id="phone"
  aria-required="true"
  aria-invalid="true"
  aria-describedby="phoneHint"
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<p>Error: Phone number is required.</p>

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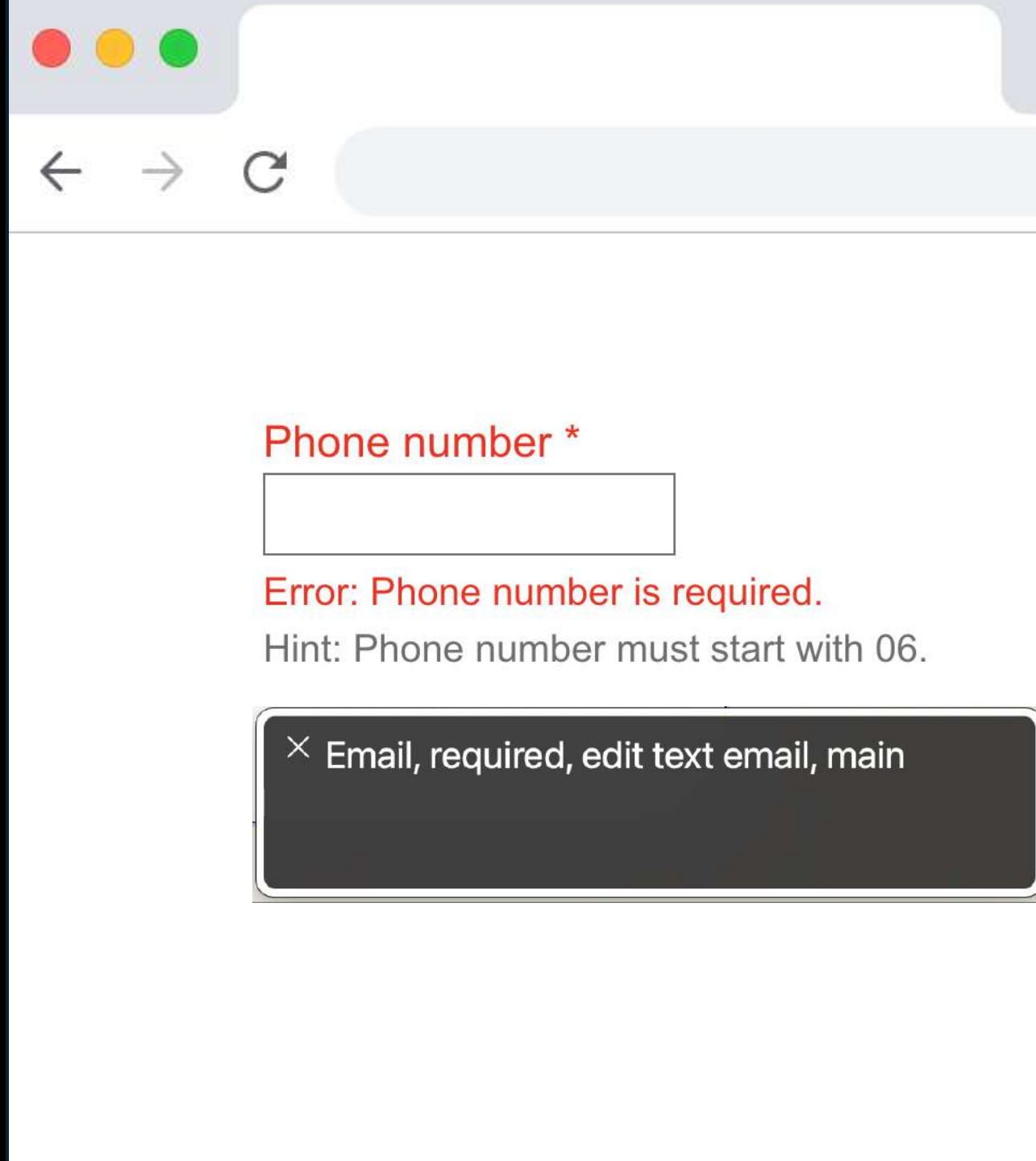
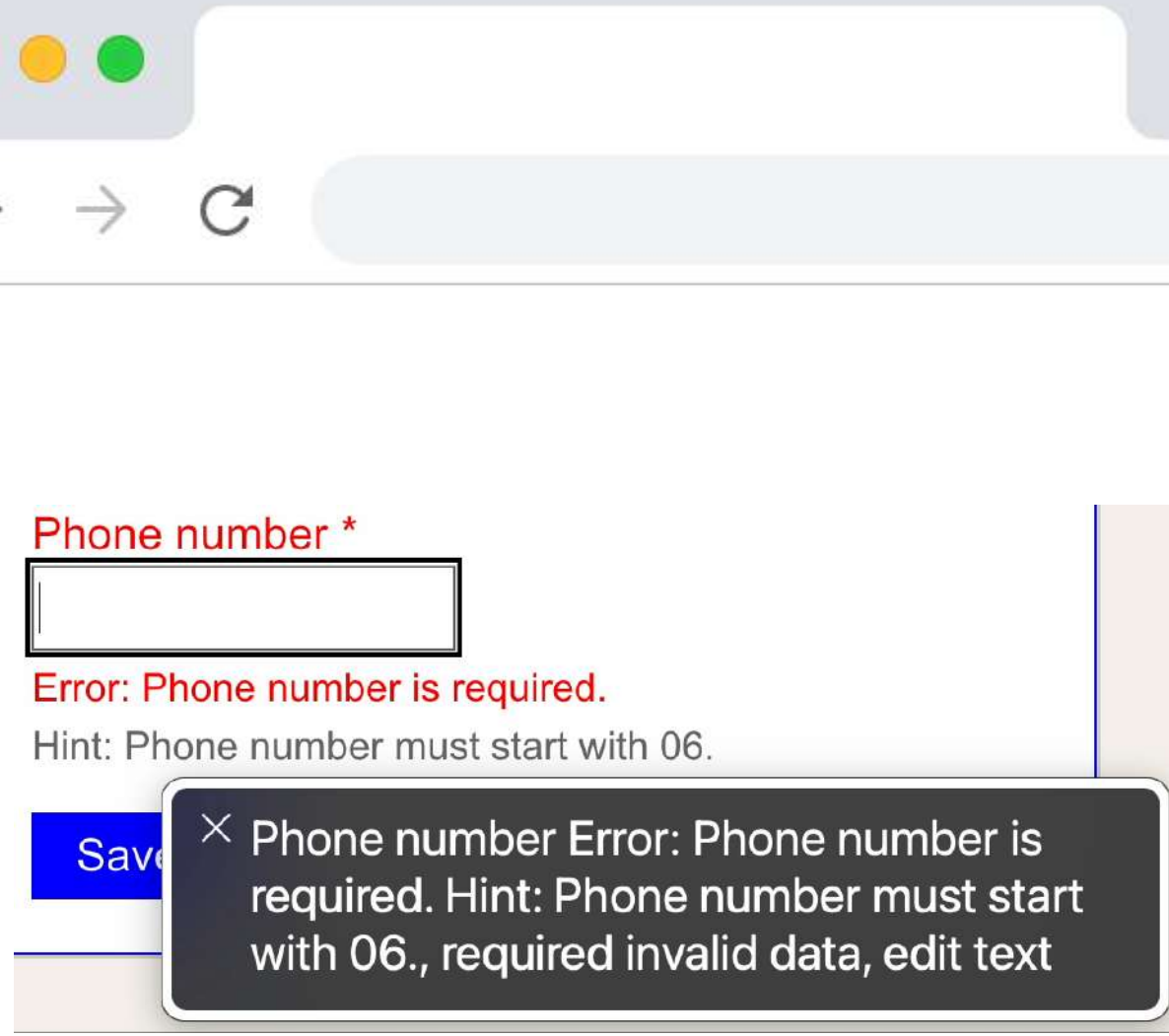
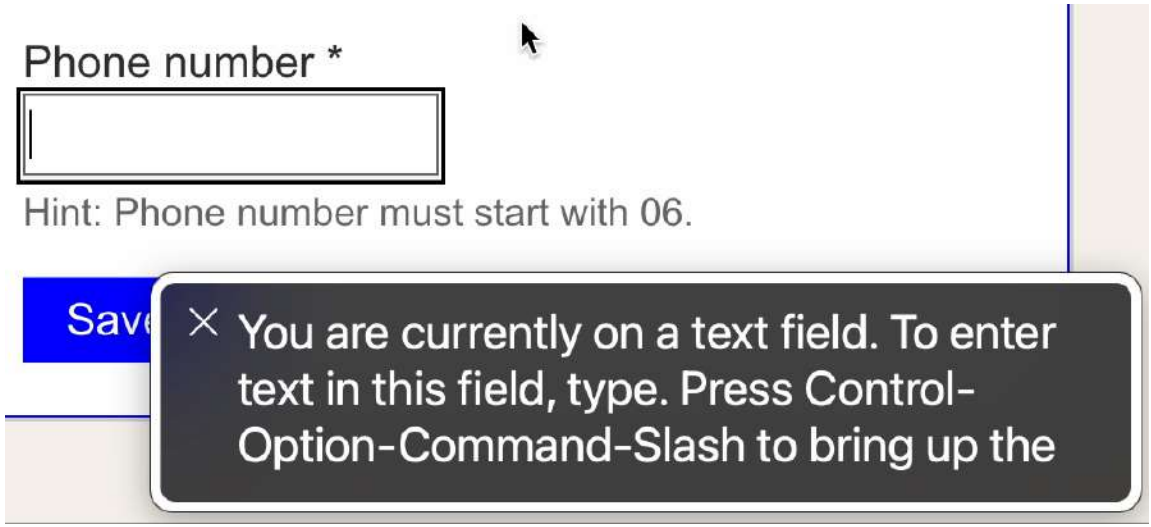


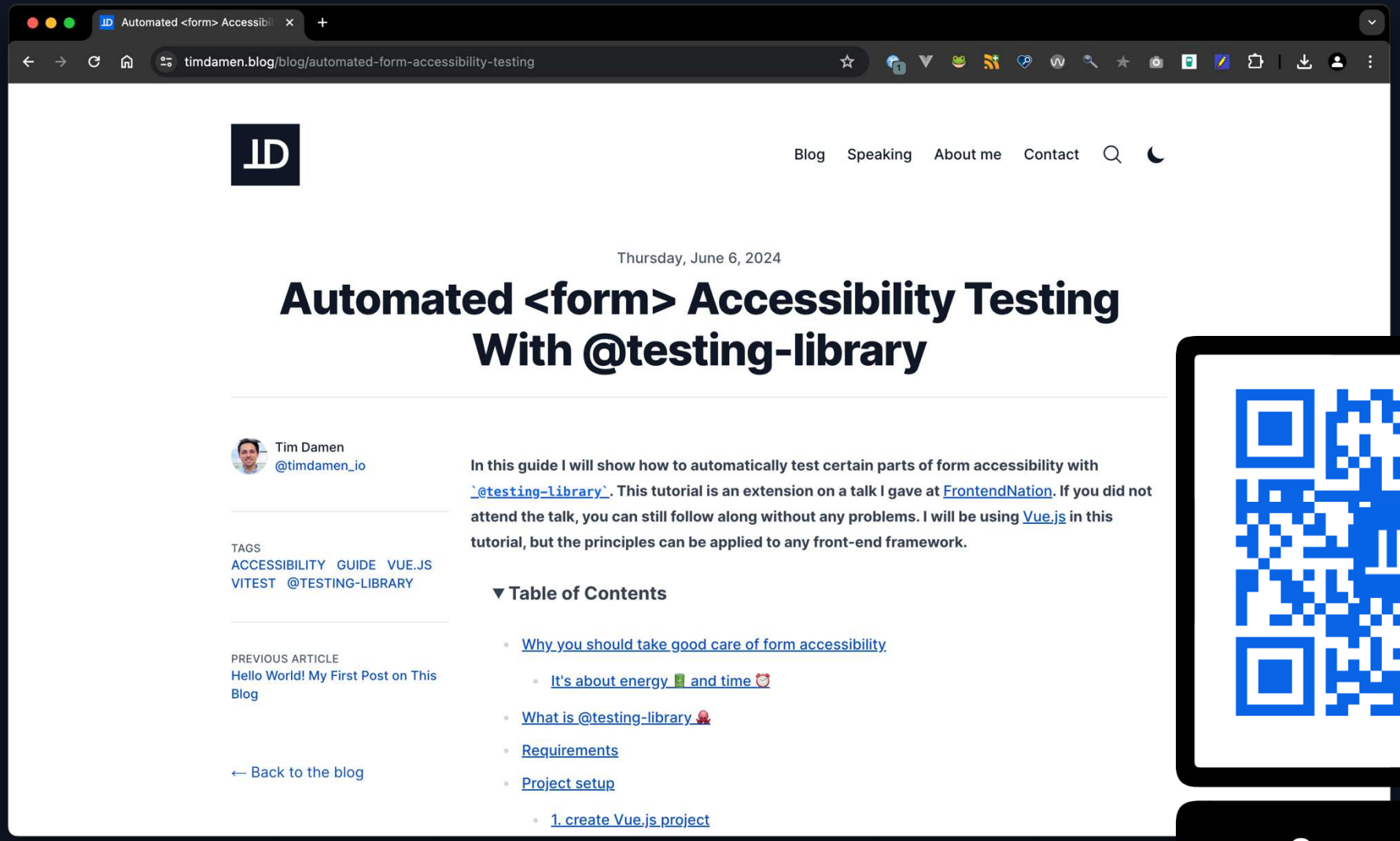
```html
<label for="phone">
  Phone number<span aria-hidden="true">*</span>
</label>
<input
  type="phone"
  id="phone"
  aria-required="true”
  aria-invalid="true"
  aria-describedby="phoneHint phoneError"
/>

<p id="phoneError">
  Error: Phone number is required.
</p>

<p id="phoneHint">
  Hint: Phone number must start with 06.
</p>
```



```
<label for="phone">
 Phone number<span aria-hidden="true">*</span>
</label>
<input
 type="phone"
 id="phone"
 aria-required="true”
 aria-invalid="true"
 aria-describedby="phoneHint phoneError"
/>

<p id="phoneError" aria-live="assertive">
 Error: Phone number is required.
</p>

<p id="phoneHint">
 Hint: Phone number must start with 06.
</p>
```



AUTOMATION GUIDE



https://www.timdamen.blog/blog/automated-form-accessibility-testing

Thank you!

Let’s stay connected

- I write code
- I write blogs
- I host workshops and training sessions
- www.timdamen.io