

Web za svakoga: uvodu pristupačnost

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**The power of the Web is in its universality.
Access by everyone regardless of
disability is an essential aspect.**

Tim Berners-Lee

Kako ljudi koriste računalo?

Sljepoća i slabovidnost

Screen readeri na zvuk /
Braille ploče

Vizualne poteškoće

Zum, dark mode,
overrideanje font sizea,
teme visokog kontrasta...

Motoričke poteškoće

Razni *input* mehanizmi
poput tipkovnice, glasa,
prekidača i simuliranih
prekidača

Neurološki i vestibularni poremećaji

Isključivanje animacija

Kako screen reader zna što čitati?



Kako screen reader zna što čitati?

Semantika

Ispravan, smislen, dobro
upotrebljen HTML
element

ARIA

Dodatne informacije o
sadržaju, stanju i ponašanju
nekog dijela DOM-a

A11y tree

Kao DOM, ali za asistivne
tehnologije



Cilj kojem težimo

- **Web je dostupan svakom**
- Naš web nije problematičan ljudima koji mogu imati interakcije s browserom
 - daltonizam, vestibularni poremećaji, epilepsija
- Informacije koje su dostupne "tradicionalnom" interakcijom su dostupne i programatski
 - Uloga, stanje, značenje elemenata
 - otvoren modal za registraciju
 - greška u validaciji email adrese
 - slika ljudi koji stoje nasmiješeni

OKEJ, MOŽDA MALO.

Plugini neće pomoći.

The screenshot shows the homepage of accessiBe.com. At the top, there's a banner announcing '\$28 Million in Series A funding!' followed by navigation links for Account, Impact, Vision, Reviews, and Support. Below this is the accessiBe logo and a main headline: 'MAKING THE WEB INCLUSIVE FOR ALL' and 'The #1 Automated Web Accessibility Solution for ADA & WCAG Compliance'. Three bullet points highlight the service's affordability, efficiency, and compliance. To the right, a large image features a man wearing sunglasses and a tan shirt, sitting at a desk with a laptop displaying the accessiBe logo. Overlaid on the background are various mobile device screens showing accessibility features like 'ARIA Labels', 'Image recognition', and 'Screen-Reader Text'. A testimonial box at the bottom states 'Trusted by 147,243 small businesses and industry leaders alike' with logos for Abbott, Six Flags, Quiksilver, and Energizer.

Standardi

An official website of the United States government [Here's how you know](#)

This is a BETA site. It's an early, in-progress version of an improved ADA.gov. If you don't find what you're looking for, [return to the main ADA.gov](#)

ADA.gov BETA
U.S. Department of Justice
Civil Rights Division

ADA Information Line
Talk to us at 800-514-0301 | 800-514-0383 (TTY)
• M, Tu, W, F: 9:30am - 12pm and 3pm - 5:30pm ET
• Th: 2:30pm - 5:30pm ET

Home Topics Laws & Regulations File a Complaint Cases Give Us Feedback

▲ COVID-19 and the Americans with Disabilities Act — view information about stateries and medical setting visitor policies

The Americans with Disabilities Act (ADA) protects people with disabilities from discrimination.

Disability rights are civil rights. From voting to parking, the ADA is a law that protects people with disabilities in many areas of public life.



How can we improve this site?

EN 301 549 v3.2.1 (2021-03)



HARMONISED EUROPEAN STANDARD

Accessibility requirements for ICT products and services

W3C Recommendation

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WCAG

VUU-KEG

Resursi

- WCAG 2.1 standard
- Popratni dokumenti
 - Understanding WCAG
 - Techniques and Failures
- **WCAG Quick Reference**
- Infinum: Web A11y Handbook
 - Coming soon
- Developer Tools: A11y Panel
- IBM Equal Access A11y Checker

WCAG je kao luk

4 principa

Percievable, Operable, Understandable i Robust kao temelji pristupačnosti na webu.

13 smjernica

Osnovni ciljevi koji kategoriziraju konkretnе odredbe i daju kontekst za njih.

78 kriterija uspjeha

Konkretni, testabilni kriteriji za implementaciju WCAG-a prema određenim razinama.

w3.org

How to Meet WCAG (Quick Reference)

A customizable quick reference to Web Content Accessibility Guidelines (WCAG) 2 requirements (success criteria) and techniques. [Show About & How to Use](#)

W3C® Web Accessibility Initiative WAI

Selected Filters: WCAG 2.1: all success criteria and all techniques. [Clear filters](#) [Expand all sections](#) [Share](#)

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1. Perceivable

- [1.1 Text Alternatives
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Principle 1 – Perceivable

Information and user interface components must be presentable to users in ways they can perceive.

Guideline 1.1 – Text Alternatives

Provide text alternatives for any non-text content so that it can be changed into other forms people need, such as large print, braille, speech, symbols or simpler language.

1.1.1 Non-text Content — Level A

All non-text content that is presented to the user has a text alternative that serves the equivalent purpose, except for the situations listed below. [Show full description](#) [Understanding 1.1.1](#)

[Show techniques and failures for 1.1.1](#)

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Guideline 1.2 – Time-based Media

Provide alternatives for time-based media.

1.2.1 Audio-only and Video-only (Prerecorded) — Level A

For prerecorded audio-only and prerecorded video-only media, the following are true, except when the audio or video is a media alternative for text and is clearly labeled as such: [Show full description](#) [Understanding 1.2.1](#)

[Show techniques and failures for 1.2.1](#)

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1.2.2 Captions (Prerecorded) — Level A

Captions are provided for all prerecorded audio content in synchronized media, except when the media is a media alternative for text and is clearly labeled as such. [Understanding 1.2.2](#)

ARIA

neverstop



Primjer UI komponente

```
<div class="accordion-single">
  <button class="accordion-single__trigger">
    Koja li je tajna zdravog elementa?
  </button>
  <div class="accordion-single__content is-open">
    <p>Mislim da u pitanju je duboka semantika.
    Kažu da na elementu se jasno vidi sve.</p>
  </div>
</div>

// accordion.js
toggleOpen(event) {
  const parent = event.target.parentNode;
  const content = parent.querySelector('.accordion-single__content');
  if (content.classList.contains('is-open')) {
    content.classList.remove('is-open');
    content.classList.add('is-closed');
    return;
  }
  // ...
}
```

Primjer UI komponente

```
<div class="accordion-single">  
  <button  
    class="accordion-single__trigger"  
    aria-expanded="true"  
    aria-controls="content1"  
    id="trigger1"  
  >  
    Koja li je tajna zdravog elementa?  
  </button>  
  <div  
    class="accordion-single__content"  
    role="region"  
    id="content1"  
    aria-labelledby="trigger1"  
    aria-hidden="false"  
  >  
    <p>Mislim da u pitanju je duboka semantika.  
      Kažu da na elementu se jasno vidi sve.</p>  
  </div>  
</div>
```

Primjer UI komponente

```
// JS
toggleOpen(event) {
    const targetId = event.target.getAttribute('aria-controls');
    const target = document.querySelector(`#${targetId}`);
    // ...
    event.target.setAttribute('aria-expanded', value);
    target.setAttribute('aria-hidden', value);
}
```

```
// CSS
.accordion-single__trigger[aria-expanded="true"] {
    // ...
}
```

Hvala!