# **Universal Design**

Objective – to make more accessible internet for all.

World Wide Web Consortium (W3C)

In 1997, the World Wide Web Consortium established the Web Accessibility Initiative (WAI – http://www.w3.org/wai) and in 1999 the Web Content Accessibility Guidelines (WCAG) 1.0 were finalized as a recommendation. Its primary goal was to promote and achieve Web functionality for people with disabilities. However, these guidelines proved to be worthy of making Web content more easily accessible and consumable for all users irrespective of the differences of user’s devices, operating system, environments constraints etc., hence it is important to follow the guidelines for achieving a better usable form of web content delivery.

The guidelines have been upgraded over time and we have WCAG 2.0 and WCAG 2.1 as a follower of the initial recommendations.

**WCAG 2.1**

WCAG 2.1 extends Web Content Accessibility Guidelines 2.0, which was published as a W3C Recommendation December 2008. Content that conforms to WCAG 2.1 also conforms to WCAG 2.0. While WCAG 2.0 remains a W3C Recommendation, the W3C advises the use of WCAG 2.1 to maximize future applicability of accessibility efforts. The W3C also encourages use of the most current version of WCAG when developing or updating Web accessibility policies.

**WCAG 2.0 and 2.1 guidelines**

Paragraph below provides a paraphrased summary of WCAG 2.1:

POUR

**Perceivable**

* Provide [text alternatives](http://www.w3.org/WAI/WCAG21/quickref/#text-equiv) for non-text content.
* Provide [**captions and other alternatives**](http://www.w3.org/WAI/WCAG21/quickref/#media-equiv) for multimedia.
* Create content that can be [presented in different ways](http://www.w3.org/WAI/WCAG21/quickref/#content-structure-separation), including by assistive technologies, without losing meaning.
* Make it easier for users to [see and hear content](http://www.w3.org/WAI/WCAG21/quickref/#visual-audio-contrast).

**Operable**

* Make all functionality available from a [keyboard](http://www.w3.org/WAI/WCAG21/quickref/#keyboard-operation).
* Give users [enough time](http://www.w3.org/WAI/WCAG21/quickref/#time-limits) to read and use content.
* Do not use content that causes [seizures](http://www.w3.org/WAI/WCAG21/quickref/#seizure) or physical reactions.
* Help users [navigate and find content](http://www.w3.org/WAI/WCAG21/quickref/#navigation-mechanisms).
* Make it easier to use [inputs other than keyboard](https://www.w3.org/WAI/WCAG21/quickref/#navigation-mechanisms).

**Understandable**

* Make text [readable and understandable](http://www.w3.org/WAI/WCAG21/quickref/#meaning).
* Make content appear and operate in [predictable](http://www.w3.org/WAI/WCAG21/quickref/#consistent-behavior) ways.
* Help users [avoid and correct mistakes](http://www.w3.org/WAI/WCAG21/quickref/#minimize-error).

**Robust**

* Maximize [compatibility](http://www.w3.org/WAI/WCAG21/quickref/#ensure-compat) with current and future user tools.

# **How to Meet WCAG (Quick Reference)**

A customizable quick reference to Web Content Accessibility Guidelines (WCAG) 2 requirements (success criteria) and techniques.

<https://www.w3.org/WAI/WCAG21/quickref/>

**Norwegian Version**

Norwegian Website – <https://www.uutilsynet.no/>

WCAG sortert etter prinsipp

<https://www.uutilsynet.no/wcag-standarden/wcag-sortert-etter-prinsipp/713>

WCAG sortert etter tema

<https://www.uutilsynet.no/wcag-standarden/wcag-sortert-etter-tema/729>

#### **Conformance Level**

One of the following levels of conformance is met in full.

* For Level A conformance (the minimum level of conformance), the [Web page](https://www.w3.org/TR/WCAG21/#dfn-web-page-s) [satisfies](https://www.w3.org/TR/WCAG21/" \l "dfn-satisfies) all the Level A Success Criteria, or a [conforming alternate version](https://www.w3.org/TR/WCAG21/" \l "dfn-conforming-alternate-version) is provided.
* For Level AA conformance, the Web page satisfies all the Level A and Level AA Success Criteria, or a Level AA conforming alternate version is provided.
* For Level AAA conformance, the Web page satisfies all the Level A, Level AA and Level AAA Success Criteria, or a Level AAA conforming alternate version is provided.

Timeline

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**WCAG 1.0 vs WCAG 2.0**

Text

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## **Web Accessibility Evaluation Tools List**

### Automated accessibility checks

There are several websites which provides services such as automated accessibility checks. You can search in the net to find some latest and up-to-date websites of this kind.

In W3C website, they have a list of tools they call as Web Accessibility Evaluation Tools. Here is the link of the tools:

<https://www.w3.org/WAI/ER/tools/>

One popular tool that I have used from the list is AChecker. <https://achecker.achecks.ca/checker/index.php> .

But there are many companies or websites other than those listed in the list maintained by W3C. You can choose any services you like: some of them are free while some may charge some fees to use them.

Some tools you might be interested:

<https://contrastchecker.com/>