

There are two accessibility

of color when used on digital or printed media: **Avoid Using Color to Communicate Information**

issues related to the choice

Some users cannot perceive color differences or may not perceive color the same way

you do. Therefore it is

important to avoid using color alone to communicate information. For example, if the link text is blue, it should also be underlined so users who cannot perceive color differences can distinguish links from surrounding text. **Choose Colors with Ample** Contrast Some users need help perceiving text if there is too

foreground and background. The W3C Web Content Accessibility Guidelines 2.0

combinations meet clearly

defined contrast ratios.

little contrast between

require that color

To meet the guidelines at Level AA, text or images of text must have a contrast ratio of at least 4.5:1 (or 3:1 for large text). To meet the stricter Level

AAA guidelines, the

contrast ratio must be at

least 7:1 (or 4.5:1 for large

text). Several free tools have been developed that make it easy to check color combinations for WCAG 2.0 compliance. The following are a few examples:

Color Contrast Analyzer

developer.paciellogrou

(for Windows or Mac):

https://

p.com/resources/ contrastanalyser/Links to an external site. WebAIM Color Contrast Checker: https://webaim.org/ resources/ contrastchecker/Links to an external site.

(black) black

white

Sample Text

Pass (UI components and graphical objects)

1

Pass (large text)

Pass (large text)

(white)

幸 🖋 🕝

Contrast ratio 21:1

Foreground colour

Good Color Contrast using

Color Contrast Analyzer:

Examples of Good Color

Contrast

Background colour

▼ Sample preview

WCAG 2.1 results

▶ 1.4.3 Contrast (Minimum) (AA)

▶ 1.4.6 Contrast (Enhanced) (AAA)

Pass (regular text)

Pass (regular text)

Colour Contrast Analyser (CCA)

Foreground colour

permalink Normal Text WCAG AA: Pass

WCAG AAA: Pass

WCAG AAA: Pass

WCAG AA: Pass

Contrast

WCAG 2.1 results

▶ 1.4.3 Contrast (Minimum) (AA)

▶ 1.4.6 Contrast (Enhanced) (AAA)

▶ 1.4.11 Non-text Contrast (AA)

Colour Contrast Analyser (CCA) Edit View Development

Fail (UI components and graphical objects)

#555386

green

Fail (regular text)

Fail (regular text)

Colour Contrast Analyser (CCA)

Foreground colour

Background colour

▼ Sample preview

WCAG 2.1 results

Foreground Color

#FFFFFF

Contrast Ratio **1.41**:1

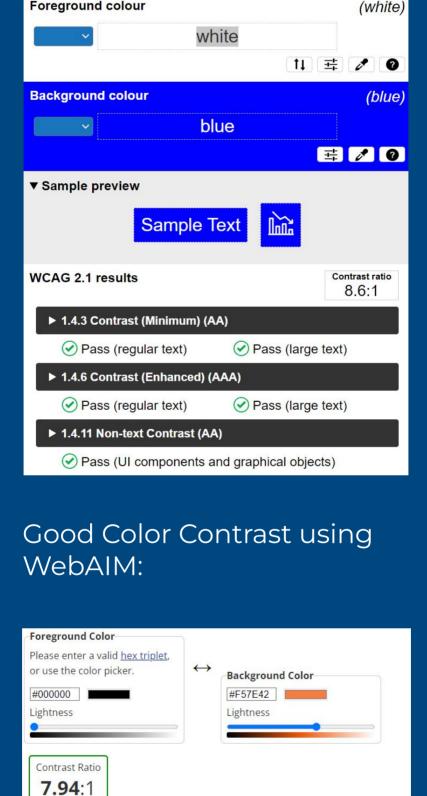
permalink

Lightness

Large Text WCAG AA: Pass

▶ 1.4.11 Non-text Contrast (AA)

Colour Contrast Analyser (CCA) Edit View Development



The five boxing wizards jump quickly.

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Graphical Objects and User Interface Components

Examples of Poor Color

Poor Color Contrast using

Color Contrast Analyzer:

Text Input

Colour Contrast Analyser (CCA) Colour Contrast Analyser (CCA) Edit View Development Foreground colour (green) green 11 茸 🖍 🕡 Background colour (red) red | 幸|| 🖋 🕡 ▼ Sample preview

Contrast ratio 1.3:1

↑↓ 📑 🖍 🗿

(green)

幸 🖍 🔞

Contrast ratio

1.4:1

Fail (large text)

X Fail (large text)

► 1.4.3 Contrast (Minimum) (AA) Fail (regular text) Fail (large text) ► 1.4.6 Contrast (Enhanced) (AAA) Fail (large text) S Fail (regular text) ► 1.4.11 Non-text Contrast (AA) Fail (UI components and graphical objects) Poor Color Contrast using WebAIM:

Text Input

Background Color

Lightness

#D9D9D9

Normal Text WCAG AA: WCAG AAA: Fail Large Text WCAG AA Fail WCAG AAA: Fail Graphical Objects and User Interface Components WCAG AA:

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