

## Key Points

- Don't use color alone to convey information.
- Sufficient contrast is good for everyone.
- Check color contrast.
- Check for color blindness.
- Educate clients.

## Visual Disabilities

2.2 billion worldwide

### Low vision

- Macular degeneration
- Cataract
- Diabetic retinopathy
- Glaucoma

### Color blindness

- More prevalent among males
  - Red-green color blindness
  - Blue-yellow color blindness
  - Complete color blindness

## Cognitive, Learning and Neurological Disabilities

- Autism
- Down syndrome
- Multiple sclerosis
- Traumatic brain injury
- Attention deficit disorder (ADD)
- Dyslexia
- Learning disabilities
- Seizure disorders

## Color and Contrast Tools

- [WebAIM Contrast Checker](#)
- [Coblis Color-Blindness Simulator](#)

## Color and Contrast Guidelines (WCAG 2.1 AA)

- [1.4.1 Use of Color \(Level A\)](#): Color cannot be the only visual means of:
  - conveying information,
  - indicating an action,
  - prompting a response,
  - distinguishing a visual element.
- [1.4.3 Contrast Minimum \(Level AA\)](#)
  - Normal Text (4.5 to 1): 14 pt/18.66 px or less
  - Large Text (3 to 1): At least 14 pt/18.66 px and bold, or at least 18 pt/24 px
  - Hyperlinks: 3 to 1 contrast with surrounding body text
- [1.4.11 Non-text Contrast \(Level AA\)](#): Minimum 3 to 1 against adjacent color(s)
  - User interface components and their states
  - Graphical objects
- No Contrast Requirements
  - Logos
  - Decorative images
  - Inactive user interface components
  - Content not visible to anyone
  - Images that contain significant other visual content
  - Heat maps
  - Screenshots

# More Resources to Empower You to Be the Design Hero



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