

1. Updated screenshots of website application with CSS

[Home](#)[Things to Read](#)

Introduction



Hello there! My name is Sovannara Tav. I am a junior undergrad student at the University of Washington Bothell. I am pursuing a background in computer science and software engineering to grow the technical and soft skills to prepare for the transition into the workforce. In transitioning into the workforce, I aspire to excel as a successful computing professional in the software development industry, leveraging my skill set to contribute to life-changing products and services driven by software. For this proof of concept website application, I will be learning front end development as well as the tools and technologies used, and applying human-computer interaction (HCI) principles.

Interests

1. Videogames
2. Back end development
3. Learning new software tools and technologies

List of Numbers

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

[Change Order](#)

Things to Read

1. Learn more about the React UI library used in this proof of concept website application: [React Documentation](#)
2. Learn more about the Next.js framework used in this proof of concept website application: [Next.js Documentation](#)
3. Learn more about HTML, CSS, and JavaScript/TypeScript used in this proof of concept website application: [MDN Web Docs](#)
4. Learn more about the Vercel cloud platform used in this proof of concept website application: [Vercel](#)
5. Learn more about Visual Studio Code used in this proof of concept website application: [Visual Studio Code Documentation](#)
6. Learn more about GitHub used in this proof of concept website application: [GitHub Documentation](#)
7. Learn more about the WhoCanUse color accessibility checker used in this proof of concept website application: [WhoCanUse Color Accessibility Checker](#)
8. Learn more about the WebAIM color contrast checker used in this proof of concept website application: [WebAIM Color Contrast Checker](#)
9. Learn more about the University of Washington Bothell: [University of Washington Bothell](#)
10. Learn more about the Association for Computing Machinery: [Association for Computing Machinery](#)
11. Learn more about the PostgreSQL open source database management system: [PostgreSQL Documentation](#)
12. Learn more about the Tableau Public data visualization tool: [Tableau Public](#)

Changes made:

- 1) Updated the design and color of the navigation bar.
- 2) Updated the headings to include an underline.
- 3) Updated the design and color of the interactive button for the list of numbers.
- 4) Updated the design and color of the links provided in the Things to Read web page. In addition, added two more links to the WhoCanUse color accessibility checker and WebAIM color contrast checker.

2. Screenshots of good color contrast and accessibility

White: #FFFFFF

UW spirit purple: #4B2E83

Contrast ratio: 10.4:1

WCAG grading: AAA

Contrast Checker

[Home](#) > [Resources](#) > Contrast Checker

Foreground

Hex Value

#FFFFFF

Color Picker

Alpha

1

Lightness

Background

Hex Value

#4B2E83

Color Picker

Lightness

Contrast Ratio

10.4:1

[permalink](#)

Normal Text

WCAG AA: Pass

WCAG AAA: Pass

The five boxing wizards jump quickly.

Large Text

WCAG AA: Pass

WCAG AAA: Pass

The five boxing wizards jump quickly.

Graphical Objects and User Interface Components

WCAG AA: Pass

Text Input

Contrast Checker

[Home](#) > [Resources](#) > Contrast Checker

Foreground

Hex Value

#4B2E83

Color Picker

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Graphical Objects and User Interface Components

WCAG AA: Pass

Text Input

whocanuse

The quick brown fox jumps over the lazy dog

BACKGROUND

#4B2E83

H

S

L

TEXT

16 PX

BOLD

#FFFFFF

H






















S
















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ADD VIA CARBON

Who can use this color combination?

Contrast Ratio	10.41:1	WCAG Grading	AAA
 Regular Vision (Trichromatic) 	Can distinguish all three primary colors, little to no blurriness	What I see	 68% affected
 Protanomaly 	Reduced sensitivity to red - trouble distinguishing reds and greens	What I see	 1.3% affected
 Protanopia 	Red blind - Can't see reds at all	What I see	 1.5% affected
 Deuteranomaly 	Reduced sensitivity to green - Trouble distinguishing reds and greens	What I see	 5.3% affected
 Deuteranopia 	Green blind - Can't see greens at all	What I see	 1.2% affected
 Tritanomaly 	Trouble distinguishing blues and greens, and yellows and reds	What I see	 0.02% affected
 Tritanopia 	Unable to distinguish between blues and greens, purples and reds, and yellows and pinks	What I see	 0.03% affected

 Achromatomaly 	Partial color blindness, sees the absence of most colors	What I see	 0.09% affected
 Achromatopsia 	Complete color blindness, can only see shades	What I see	 0.05% affected
 Cataracts 	Clouding of the lens in the eye that affects vision	What I see	 33% affected
 Glaucoma 	Slight vision loss	What I see	 2% affected
 Low Vision 	Decreased and/or blurry vision (not fixable by usual means such as glasses)	What I see	 31% affected

Situational Events

 Direct Sunlight	Simulating the effect of direct sunlight on a phone or screen	What I see
 Night Shift Mode	Simulating the effect of night mode on a phone or screen	What I see

whocanuse

The quick brown fox jumps over the lazy dog

BACKGROUND

FFFFFF

H S L

TEXT

16 PX

☐ BOLD

4B2E83

H S L

SQUARESPACE

Squarespace tools make it easy to create a beautiful and unique website.

ADS VIA CARBON

Who can use this color combination?

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