

This project focuses on designing a mobile website for the cross country teams. There are animations and styling. The home, women's team, men's team and each of the athlete's pages are linked.

1. Mobile-First Design

For Mobile-First Design, I started by using inspect element and adjusting the width of the screen to 360px which is very narrow. From there, I made styling elements. When I was done, I used @media to query screens with a width smaller than 600 px. One thing I considered was using a vertical design for the navigation links (three in total) with flexbox. I thought this would be easier for mobile users to select and less likely to misclick than the side-by-side layout of the computer page. I also adjusted the text to be smaller for the mobile view so that there would be less scrolling than with a larger font-size. I set the horizontal (overflow-x: auto) to auto, which allows users to scroll horizontally on the tables, enhancing the mobile experience for contents that are wide.

```
/* mobile first for smaller screens */
@media (max-width: 600px) {
  header h1 {
    font-size: 1.6em;
  }

  body h2{
    font-size: 1.1em;
  }
  .result-row td{
    font-size: 0.9em;
  }

  /* make the navigation at the top aligned vertically*/
  nav ul {
    flex-direction: column;
    align-items: center;
  }

  /* table */
  #athlete-sr-table table,
  #athlete-result-table table {
    font-size: 0.9em;
    display: flex;
  }

  a[href="#main"] {
    font-size: 0.9em;
  }
}
```

2. CSS quality

I started by setting an overall styling by selecting the body tag which prevented repetition in child elements. I implemented a mobile-first approach for better user experience and the CSS code is not repetitive so its reused across different parts of the page. In terms of innovative use, are were multiple areas:

- a) Responsive tables: the `#athlete-sr-table` and `#athlete-result-table` used `overflow-x: auto` to create scroll-friendly tables (horizontal scroll) which is especially useful to users on small screens.
- b) Alternating row colors: the color of the table rows alternates between two shades, both of which pass color contrast standards, improving readability.
- c) Sticky and fixed elements: I made the H1 element sticky so that the name of the athlete is available to the users as they scroll down to view the athlete's seasonal records, making it easier to remember which athlete's data the user is looking at.
- d) Hover effects on image: there is a hover effect on the image (`img:active`) where the image enlarges when clicked/touched. The goal is to provide a better experience by allowing the user to enlarge the image to see the image better. There is a gradual increasing transition effect which is turned off for users with motion-reduced preference.
- e) Image optimization: the images are optimized with a circular styling (`border-radius: 50%`). There is additional styling with the borders which have a shadow effect that makes the image stand out. The `object-fit: cover` property ensures that images are cropped properly and scales well across different devices.

All of the css files (reset.css and style.css) are sorted into one folder for improved organization. There are spaces between the css code, the selectors and different parts are separated so it is easier to read. There are comments addressing the purpose of the code. The code is not repetitive each has a different purpose.

3. Animations

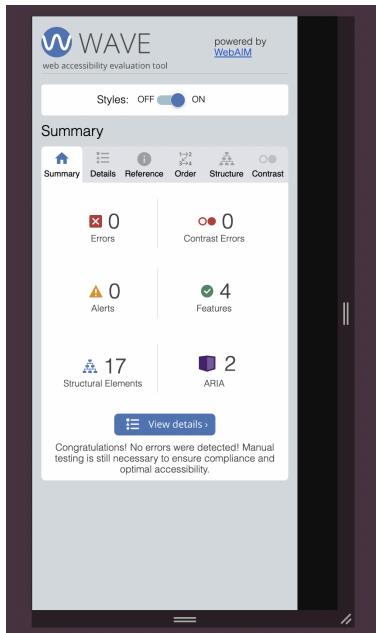
There are animations for the best score within the seasonal records for the athlete. If there are three years of records, the python program compares the three and assigns 'class = best-record' to the table cell with the smallest value. This animation captures the user attention towards the athlete's best performance which would be important to many coaches, family, friends, fans, and others. It allows users to find the best record without having to compare the numbers themselves, saving time and effort. For motion reduced preference users, the animation is turned off and the color of the text is adjusted for better color contrast under given a certain color preference.

Year	Season Record (SR)
9	23:17.9
10	19:45.5
11	18:53.7
12	18:19.1



4&5. WAVE and aXe validation

a) Dark color scheme



WAVE extension blocks the page because it is a mobile page

Skip to Main Content

Home Page
Men's Team
Women's Team

Parker Razelun

Athlete's Seasonal Records (SR) per Year

Year	Season Record (SR)
9	23:17.9

TOTAL ISSUES

Automatic Issues ... 0
Guided Issues ... 0
Manual Issues ... 0
Critical ... 0 Serious ... 0
Moderate ... 0 Minor ... 0

Total Issues: 0

You have (0) automatic issues, nice!

Catch even more accessibility issues with semi-automated guided tests.

b) Light color scheme

The screenshot shows a mobile application interface on the left and the DevTools axe DevTools extension results on the right.

Mobile Application Interface:

- Dimensions: Responsive 350 x 680 100% No throttling
- Skip to Main Content
- Home Page
- Men's Team
- Women's Team
- Parker Razelun (Athlete Name)
- A circular profile picture of Parker Razelun.
- Athlete's Seasonal Records (SR) per Year
- Year (selected tab)
- Season Record (SR)

DevTools axe DevTools Results:

- Test URL: http://127.0.0.1:5500/xc_data-main/mens_team/Parker%20Razelun18820257.html
- TOTAL ISSUES: 0
- Automatic Issues: 0
- Guided Issues: 0
- Manual Issues: 0
- Critical: 0 Serious: 0
- Moderate: 0 Minor: 0
- Best Practices: OFF WCAG 2.1 AA
- Total Issues: 0
- Console: Enable automatic dark mode (checkbox checked)
- What's new
- Rendering
- Emulate CSS media feature prefers-color-scheme: Forces CSS prefers-color-scheme media feature
- prefers-color-scheme: light

The screenshot shows the WAVE web accessibility evaluation tool extension interface.

WAVE web accessibility evaluation tool

powered by WebAIM

Styles: OFF ON

Summary

Category	Count
Errors	0
Contrast Errors	0
Alerts	0
Features	4
Structural Elements	17
ARIA	2

Congratulations! No errors were detected! Manual testing is still necessary to ensure compliance and optimal accessibility.

WAVE extension blocks the page because it is a mobile page

6. Addresses Prefers-Reduced Preference

```
/* adjustments for prefers-reduced-motion users */
@media (prefers-reduced-motion: reduce) {
    img {
        transition:none
    }

    #athlete-sr-table table td.best-record {
        animation: none;
    }
}
```

- a) No image transition: The 'img' selector within this media query removes all transitions effects from the image. Without the reduced motion preference, there is a transition when the user clicked on the image for enlargement.
- b) Disabling animation for SR table best record: There is an animation for the best record for the SR table. This animation is disabled under the prefers-reduced-motion setting as shown in the code above.

7. Addresses User's Color Scheme Preference

```
/* adjustments for color scheme preference */
@media (prefers-color-scheme: dark) {
    body {
        background-color: #121212;
        color: #ffffff;
    }

    h1{
        color: #f0f0f0;
        background-color: #333;
    }

    tbody tr td a {
        color: #rgb(148, 205, 255);
    }

    nav ul {
        background-color: #333;
    }

    nav ul li a {
        color: #rgb(148, 205, 255);
    }

    a[href="#main"] {
        background-color: #333;
        color: #rgb(148, 205, 255);
    }

    header {
        background-color: #333;
    }

    h2{
        color: #ffffff;
    }

    img{
        border-color: #ffffff;
    }
}

#athlete-sr-table table,
#athlete-result-table table {
    background-color: #121212;
    color: #e0e0e0;
}

#athlete-sr-table table th,
#athlete-result-table table th {
    background-color: #000000;
}

#athlete-sr-table table tbody tr:nth-child(even),
#athlete-result-table table tbody tr:nth-child(even) {
    background-color: #1e1e1e;
}

#athlete-sr-table table tbody tr:nth-child(odd),
#athlete-result-table table tbody tr:nth-child(odd) {
    background-color: #2a2a2a;
}

footer a {
    color: #rgb(148, 205, 255);
}

#athlete-sr-table table td.best-record {
    color: #bbff00; /* adjusted for better color contrast */
}
```

The above code adjusts to the users color scheme preference. When the user selects darkmode, the page becomes dark. Like viceverse for light mode. It adjusts according to the users computer settings and turnd dark when the devices adjusts to nighttime. With the darker background, there are other colors to ensure that the color contrast is still high for accessibility.

8. Console Errors

There are no console errors for any of the pages

Skip to Main Content

Home Page
Men's Team
Women's Team

Parker Razelun

Athlete's Seasonal Records (SR) per Year

Year Season Record (SR)

Console What's new Rendering

- Paint flashing
- Layout Shift Regions
- Layer borders

Home Page
Men's Team
Women's Team

Cross Country Teams

Mens Team

Athlete Name
Parker Razelun
Jude Shafer
Matthew Guikema
Jack Robichaud
Emmett Strait
Jackson Cicewicz
Caspian Ruiz
Sage O'Lor
Rowan Kim
Juan Luis Llanes

Console What's new Rendering

- Paint flashing
- Layout Shift Regions
- Layer borders

Frame Rendering Stats

Dimensions: Responsive ▾ 350 x 680 100% ▾ No throttling ▾

Elements Console Sources Network Performance Memory Application Security > Default levels ▾ No Issues

The screenshot shows the 'Mens Team' page. At the top, there's a navigation bar with links to 'Home Page', 'Men's Team', and 'Women's Team'. Below it, a large heading says 'Mens Team'. Underneath, a section titled 'Athlete Name' lists names of athletes, each preceded by a small blue link icon. The names listed are: Parker Razelun, Jude Shafer, Matthew Guikema, Jack Robichaud, Emmett Strait, Jackson Cicewicz, Caspian Ruiz, Sage O'Lor, Rowan Kim, Juan Luis Llanes, Raphael Fournier, Ezekiel Paloff, Marlowe Hartnett, and Garrett Comer.

Dimensions: Responsive ▾ 350 x 680 100% ▾ No throttling ▾

Elements Console Sources Network Performance Memory Application Security > Default levels ▾ No Issues

The screenshot shows the 'Womens Team' page. At the top, there's a navigation bar with links to 'Home Page', 'Men's Team', and 'Women's Team'. Below it, a large heading says 'Womens Team'. Underneath, a section titled 'Athlete Name' lists names of athletes, each preceded by a small blue link icon. The names listed are: Emily Mei, Katie Yuan, Irie Scrase, Adrienne Stewart, Arabella Kessler, Lily Greenberg, Tia Coccilone, Gwen Stotts-Walsh, Ann Kecici, Lucia Llanes, Mara Mocanu, Becca Van Lent, Elin Tenbrink, and LeAnne Fayyad.