

Design Process Documentation

Daniel Biel - 1007160750

December 6, 2024

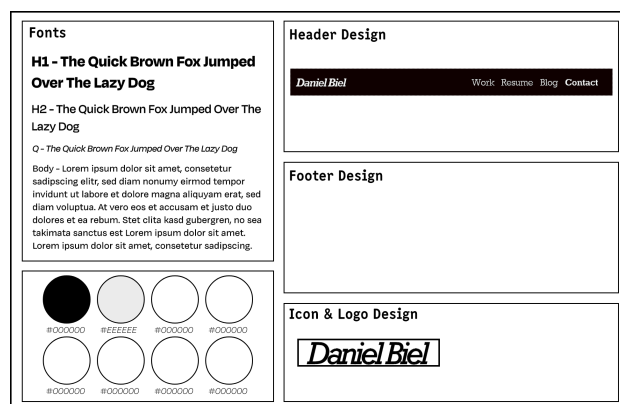
CCT360 - Danny Papagiannis

Design Process:

The second project marked my first time using bootstrap at this scale - and it has taught me a lot about writing consistent code across all pages. To start, One major change from the last project to this one is the amount of css that I have written. In my previous projects I relied on one major css file to host all of the styling, often resulting in a file with 500+ lines, most of which were the result of ensuring responsive design. This time, I utilized bootstrap to handle most of the responsive design while I specified what I wanted and where.

Early Planning:

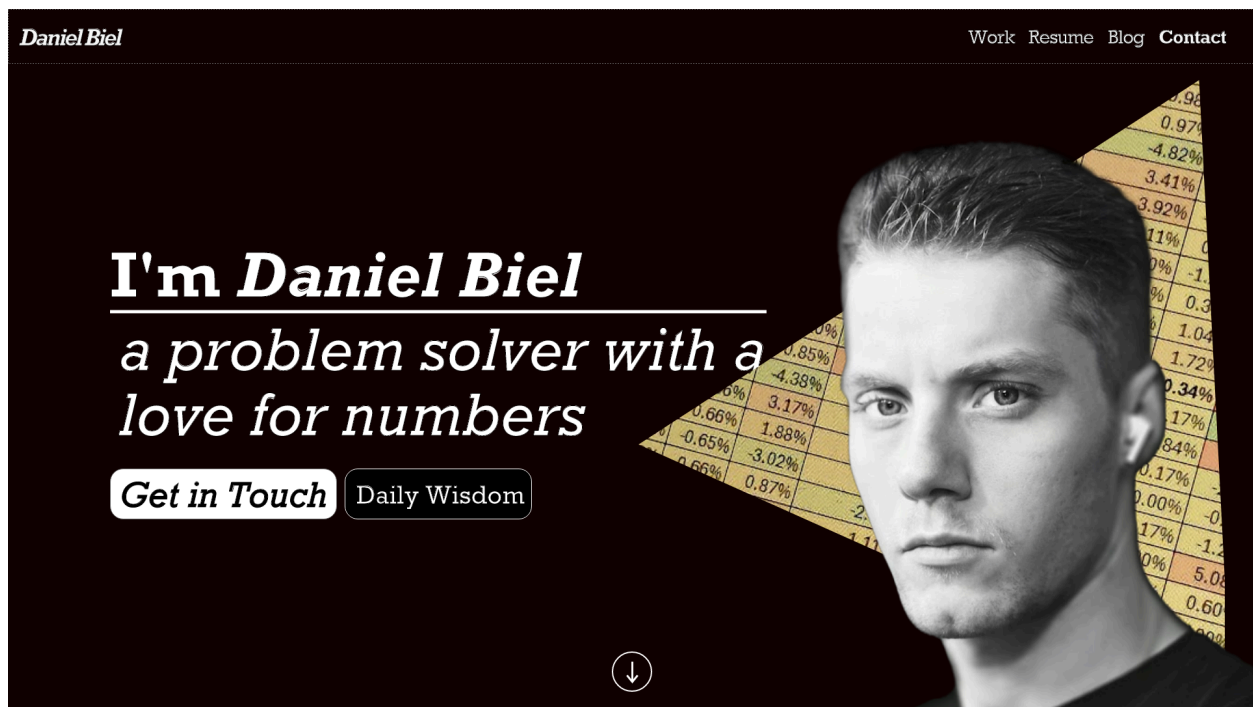
After outlining all of the project requirements in an adobe xd file, I began first by choosing a color scheme and typography. I made minor changes to the typography since my initial planning phase, but the color scheme (which is #000 with yellow accents) stayed as it was planned. At this point, I realized that I needed lots of pictures of myself, so I locked myself in a bathroom for an hour and took pictures of myself from varying angles until I gave up and settled on the one that I included in the website. This was later redeemed with the photograph of myself that I included in the portfolio section. Below is an image of the artboard where I organized early designs for the logo, header, footer (which I did not complete), typography, and color scheme.



For a font, I settled on Rockwell, which is often described as “web-safe” because it is consistent; meaning it looks the same regardless of user operating system or browser, and is included in all the major operating system default font-packs - which as opposed to a custom font which needs to be downloaded, results in faster loading times for the user.

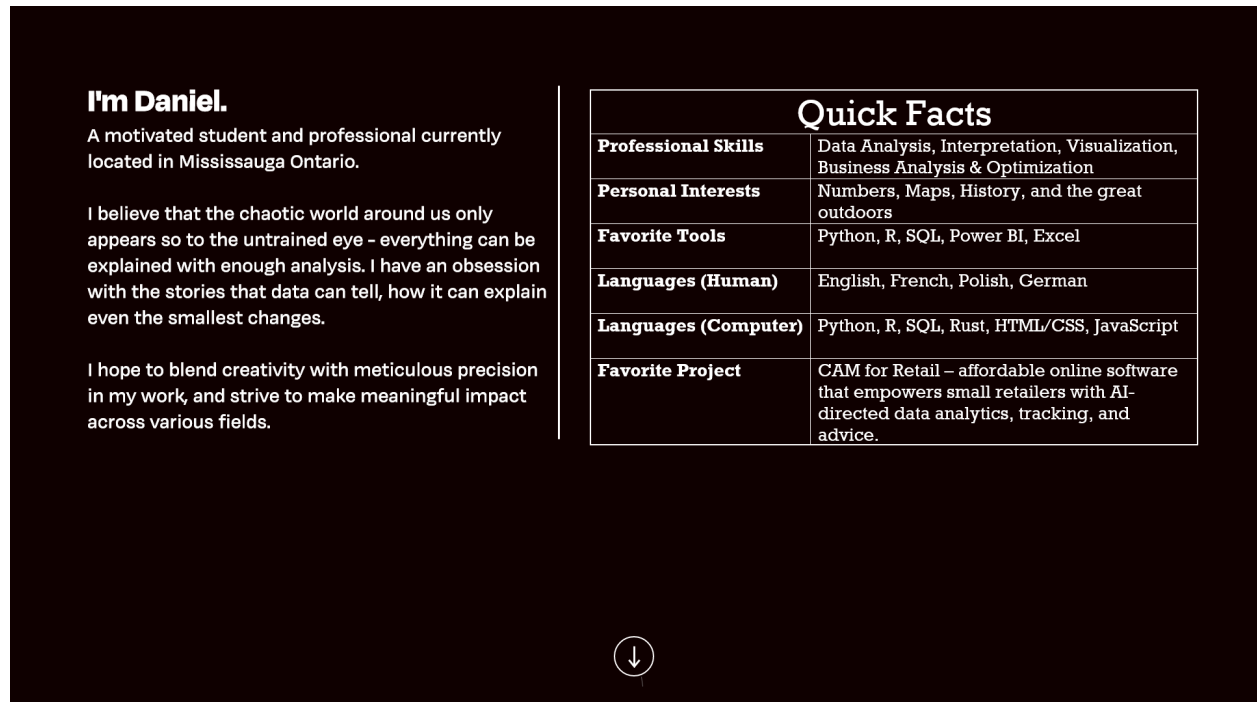
Wireframing/Prototyping:

By this point, I already had a general idea of how I wanted things to look, especially for the index. More importantly, I wanted a visualization of how the typography and ratios worked together before I went in and started programming everything. Here is an early mockup of the index page - it hasn't changed much since I designed it!



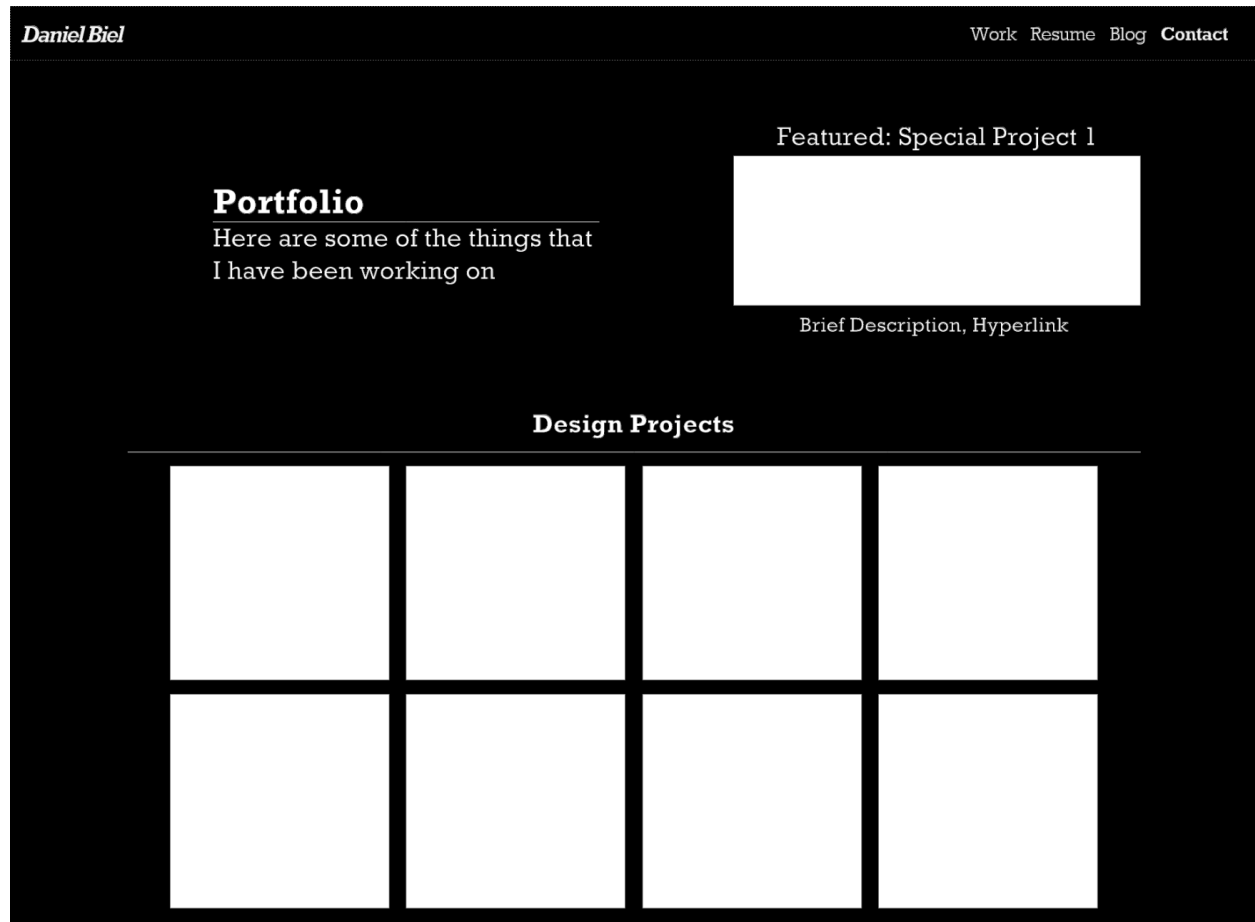
I expanded the hero section to fill the entire page on desktop aspect ratios - big text and image, a button to contact me, which redirects to the contact form, and a "daily wisdom" button because I struggled to think of a way to integrate a modal at first - although I later used multiple when designing the portfolio page.

The next part of index.html is a bit more bland - I reworked this once I saw it as a rendered html in my browser - however, as a general summary of who I am this is not bad.



The drafted design for the portfolio page also resembles the finished product, although I axed the “featured project” part after realizing that I preferred the organized layout I ended up designing

later on.



Accessibility Protocol:

Compared to previous projects, this site has a whole host of new features in order to approve accessibility. First, the color scheme is high contrast, font sizes are legible at any screen size, borders are explicit and visible as well. I paid extra attention to ensuring that each page has a clear navigational structure, and I included 'skip to main content' links for screen-readers.

```
<body>
  <!-- Skip Navigation Link -->
  <a href="#maincontent" class="skip-link">Skip to main content</a>

  <!-- Navbar -->
  <nav class="navbar navbar-expand-lg navbar-dark bg-dark fixed-top">
```

The contact page features a form that with input fields that have corresponding label elements, aria-describedby attributes, again ensuring accessibility for those that use screen-readers.

```
<!-- Name Field -->
<div class="mb-3">
  <label for="name" class="form-label">Your Name</label>
  <input type="text" class="form-control" id="name" placeholder="Enter your name" required>
</div>
<!-- Email Field -->
<div class="mb-3">
  <label for="email" class="form-label">Your Email</label>
  <input type="email" class="form-control" id="email" placeholder="Enter your email" required>
</div>
<!-- Subject Field -->
<div class="mb-3">
  <label for="subject" class="form-label">Subject</label>
  <input type="text" class="form-control" id="subject" placeholder="Enter the subject" required>
</div>
<!-- Message Field -->
<div class="mb-3">
  <label for="message" class="form-label">Message</label>
  <textarea class="form-control" id="message" rows="5" placeholder="Enter your message" required></textarea>
</div>
<!-- Submit Button -->
<div class="d-grid">
  <button type="submit" class="btn btn-outline-light btn-lg me-3">Send Message</button>
</div>
```

My early planning for typography let me set consistent semantic headings early - all page titles are <h1> and section titles <h2> wherever appropriate - and the one interactive component - the

accordion FAQ section, has ARIA labels all over:

```
<!-- FAQ Column -->
<div class="col-md-3 mb-5 faq-section" aria-labelledby="faq-section-heading">
  <section>
    <h2 id="faq-section-heading" class="text-center mb-4">FAQ</h2>
    <div class="accordion" id="faqAccordion">
      <!-- FAQ 1 -->
      <div class="accordion-item">
        <h2 class="accordion-header" id="faq1Header">
          <button class="accordion-button" type="button" data-bs-toggle="collapse" data-bs-target="#faq1"
            aria-expanded="true" aria-controls="faq1">
            Where are you located?
          </button>
        </h2>
        <div id="faq1" class="accordion-collapse collapse show" aria-labelledby="faq1Header"
          data-bs-parent="#faqAccordion">
          <div class="accordion-body">
            I am based in Mississauga, Ontario, Canada.
          </div>
        </div>
      </div>
      <!-- FAQ 2 -->
      <div class="accordion-item">
        <h2 class="accordion-header" id="faq2Header">
          <button class="accordion-button collapsed" type="button" data-bs-toggle="collapse"
            data-bs-target="#faq2" aria-expanded="false" aria-controls="faq2">
            What is your preferred method of contact?
          </button>
        </h2>
      </div>
    </div>
  </div>
</div>
```

Mobile Breakpoints:

This was the part that I was dreading most - but bootstrap seemed to have handled nearly all of the resizing and even restructuring in most cases. There were a few cases where by inputting my own parameters for restructuring - most notably in the portfolio grid, made more sense. After thorough testing in mobile responsive mode using firefox developer mode, I settled on the following format: 4 columns (or items per row) on a large display, like a 16:9 computer monitor,

3 on a medium display like a tablet in portrait orientation, and 1 for mobile widths.

```
</h2>Recent</h2>
<hr>
</div>

<!-- Responsive Image Cards -->
<div class="container my-5">
  <div class="row row-cols-1 row-cols-sm-2 row-cols-md-3 row-cols-lg-4 g-5">
    <!-- Card 1 -->
    <div class="col">
      <div class="card h-100">
        . Again - if you are in the process

of marking this project, I am BEGGING that this count as my requirement for a dropdown menu, because I would argue that it does.