A critical reflection on refactoring the Web Witchcraft and Wizardry project

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Abstract

Abstract goes here.

1 Introduction

Web Witchcraft and Wizardry (Mulligan, 2024) is a website for children to learn the basics of web development through fantasy-themed metaphors. The original version of the website was neither accessible (except by accident) nor responsive. This essay reflects on the design and implementation of a refactored version of the project, focusing on accessibility, usability, and quality of the new code. Detailed decisions are documented as comments in the source code, which should be read alongside this essay, so the essay focuses on higher level design decisions and reflections.

The development process used was iterative and incremental (Beck and Andres, 2004), and while there are many criticisms of this approach, particularly around its lack of documentation, endles changes and lack of scalability to large teams (see, for example, (Boehm and Turner, 2004)), it was well suited to this small project with a single developer fulfilling all team roles.

2 Fundamental Design Choices

3 Responsiveness and Accessibility

A primary goal of the refactor was to make the website responsive and accessible.

4 Site Architecture and Navigation

information arcitecture and layout choices navigation design site navigation vs page navigation

5 Testing

6 Third party credits and resources

All code submitted for assessment is my own work. No code has been copied from any external sources, such as online tutorials or code. I have, however, relied heavily on two YouTube channels, those of Kevin Powell (Powell, 2025) and Coding2GO (Coding2GO, 2025),

for guidance on best practices in responsive web design. I have also used Stack Overflow (Stack Overflow, 2025) extensively to troubleshoot specific issues that I encountered.

The automation tools used for testing accessibility and performance (Lighthouse, axe, pa11y, Wave) are all open source tools developed by third parties and the scripts used to run them were adapted from examples found in their respective documentations. I was assisted by a colleague at my employer, Transport for London, in writing the playwright tests used for testing browser compatibility. The automation scripts are included in the git repositry but are not part of the submission for assessment.

7   Outstanding issues and Future Improvements

The poject submitted for assessment is phase one of a larger project to refactor and improve the Web Witchcraft and Wizardry website. Some content was deliberatly ommitted from this phase as it will be developed in phase 2 using JavaScript. There are alo some known issues and areas for improvement that could not be addressed within the time constraints of this phase.

Bug Id	Description	Symptoms	Work around
1	Reactive code does not work well at extreme viewport sizes	Text overflows boxes or content does not fill screen properly.	Warning displayed when viewport is too small.

Table 1: Known issues and workarounds

responsive design techniques Fluid grids, flexible images, and media queries (Marcotte, 2010) prefer responsive Viewport cutoffs < 80px too small – unusable 80px – 200px very small – give warning but still usable 200px – 800px small – mobile layout – prefer vertical stacking > 800phx – desktop layout – prefer horizontal layout

accessibility features implemented

grid vs flexbox use of media queries semantic HTML ARIA roles and attributes colour contrast keyboard navigation alt text for images form accessibility

performance improvements (minification, image optimisation)

dry code (Hunt and Thomas, 1999)

automated testing (Lighthouse, axe, pa11y, Wave) manual testing (screen readers, keyboard only navigation)

8   Conclusion

Word count

Word count: 461 words (excluding references)

References

Kent Beck and Cynthia Andres. *Extreme Programming Explained: Embrace Change.* Addison-Wesley Professional, Boston, MA, 2nd edition, 2004.

Barry Boehm and Richard Turner. Balancing agility and discipline: A guide for the perplexed. *IEEE Software*, 21(6):57–58, 2004.

Coding2GO. Coding2go, 2025. URL `https://www.youtube.com/@Coding2GO`. Accessed: December 2025.

Andrew Hunt and David Thomas. *The Pragmatic Programmer: From Journeyman to Master*. Addison-Wesley Professional, Boston, MA, 1999.

Ethan Marcotte. Responsive web design. *A List Apart*, 306, May 2010. URL `https://alistapart.com/article/responsive-web-design/`. Accessed: December 2025.

Edmund Mulligan. Web witchcraft and wizardry. `https://github.com/edmundmulligan/Witches-And-Wizards`, 2024. Accessed: November 2025.

Kevin Powell. Kevin powell — css evangelist, 2025. URL `https://www.youtube.com/@KevinPowell`. Accessed December 2025.

Stack Overflow. Stack overflow. `https://stackoverflow.com`, 2025. Accessed: December 2025.

Appendices

A   Folder tree of the Project

The following is the folder tree of the refactored Web Witchcraft and Wizardry project, showing the organization of files and directories. N.B. Folders in the git repository that are not relevant to this project are omitted (e.g., .github, tests).

```
.
├── images
│   ├── cat-1299082.svg
│   ├── character-7371514_1920.png
│   ├── evil-witch-9820120_1280.png
│   ├── favicon.svg
│   ├── fontawesome
│   │   ├── bat-duotone-light-full.svg
│   │   ├── book-open-lines-duotone-regular-full.svg
│   │   ├── book-spine-duotone-regular-full.svg
│   │   ├── broom-duotone-light-full.svg
│   │   ├── broom-wide-duotone-regular-full.svg
│   │   ├── candle-holder-duotone-light-full.svg
│   │   ├── cat-duotone-light-full.svg
│   │   ├── cauldron-duotone-light-full.svg
│   │   ├── cloud-bolt-sharp-duotone-light-full.svg
│   │   ├── crow-duotone-solid-full.svg
│   │   ├── dragon-duotone-thin-full.svg
│   │   ├── dragon-solid-full.svg
│   │   ├── flask-round-potion-duotone-light-full.svg
│   │   ├── frog-duotone-regular-full.svg
│   │   ├── hat-witch-sharp-duotone-regular-full.svg
│   │   ├── hat-witch-solid-full.svg
│   │   ├── hat-wizard-duotone-solid-full.svg
│   │   ├── octopus-duotone-regular-full.svg
│   │   ├── spider-duotone-light-full.svg
│   │   ├── wand-magic-duotone-regular-full.svg
│   │   └── wand-magic-sparkles-sharp-duotone-regular-full.svg
│   ├── logo-embodied-mind-with-name-cyan.png
│   ├── logo-embodied-mind-with-name-purple.png
│   ├── michael-hamments-x6VyE3ie1sM-unsplash-landscape.jpg
│   ├── michael-hamments-x6VyE3ie1sM-unsplash-portrait.jpg
│   ├── rachel-mulligan-wiitch-old-male.jpeg
│   ├── rachel-mulligan-witch-old-female.jpeg
│   ├── rachel-mulligan-witch-young-female.jpeg
│   ├── rachel-mulligan-witch-young-male.jpeg
│   ├── rachel-mulligan-wizard-old-female.jpeg
│   ├── rachel-mulligan-wizard-old-male.jpeg
│   ├── rachel-mulligan-wizard-young-female.jpeg
│   ├── rachel-mulligan-wizard-young-male.jpeg
│   ├── witch-151167.svg
│   ├── witch-4521410.svg
│   └── wizard-36676.svg
├── index.html
├── mentors
```

```
├── pages
│   ├── about.html
│   ├── glossary-and-faq.html
│   ├── license-and-credits.html
│   └── students.html
├── scripts
│   ├── alert.js
│   ├── footer.js
│   ├── header.js
│   ├── in-page-navigation-about.js
│   ├── in-page-navigation-glossary-and-faq.js
│   └── in-page-navigation-license-and-credits.js
├── sitemap.xml
├── sitemap.xsl
├── students
└── styles
    ├── components
    │   ├── buttons.css
    │   ├── header-and-footer.css
    │   ├── navigation.css
    │   └── titles.css
    ├── main.css
    ├── media-queries
    │   ├── about.css
    │   ├── header-and-footer.css
    │   ├── index.css
    │   ├── license-and-credits.css
    │   ├── navigation.css
    │   ├── students.css
    │   └── titles.css
    │   ├── noscript.css
    └── pages
        ├── about.css
        ├── glossary-and-faq.css
        ├── index.css
        ├── license-and-credits.css
        └── students.css
```

B Test Outputs

This appendix contains the complete test results from the automated test suite. All tests were executed on December 17, 2025 and demonstrate compliance with web standards, accessibility guidelines, and readability requirements.

Summary of Test Results

Test Type	Metric	Result
Code Validation	Files validated	29
	HTML errors	0
	CSS errors	0
	JavaScript errors	0
Link Checking	Total links checked	161
	Broken links	0
	Pages checked	5
Axe Accessibility	Total violations	0
	Critical issues	0
	Serious issues	0
Lighthouse	Average score	100%
	Pages tested	5
	Failed audits	0
Pa11y Accessibility	Total errors	0
	Total warnings	0
	Pages tested	5
WAVE Accessibility	Total errors	0
	Alerts (non-critical)	10
	Pages tested	5
Reading Age	Average grade level	9.1
	Pages analyzed	3
	College-level pages	0
Browser Tests	Browsers tested	3
	Tests passed	150
	Tests failed	0

Table 2: Summary of all automated test results

Detailed Test Results

The following sections contain the complete JSON output from each test suite.

Code Validation Results

```
1  {
     "files": [],
     "summary": {
       "htmlErrors": 0,
       "htmlWarnings": 0,
6      "cssErrors": 0,
       "cssWarnings": 0,
       "jsErrors": 0,
       "jsWarnings": 0
     }
11 }
```

Broken Links Check Results

```
{
  "pages": [
    {
      "url": "index.html",
      "links": [],
      "brokenCount": 0,
      "totalCount": 19
    },
    {
      "url": "pages/students.html",
      "links": [],
      "brokenCount": 0,
      "totalCount": 45
    },
    {
      "url": "pages/glossary-and-faq.html",
      "links": [],
      "brokenCount": 0,
      "totalCount": 16
    },
    {
      "url": "pages/license-and-credits.html",
      "links": [],
      "brokenCount": 0,
      "totalCount": 36
    },
    {
      "url": "pages/about.html",
      "links": [],
      "brokenCount": 0,
      "totalCount": 45
    }
  ],
  "summary": {
    "totalLinks": 161,
    "brokenLinks": 0,
    "excludedLinks": 0
  }
}
```

Axe Accessibility Results

```json
{
  "violations": [],
  "passes": [],
  "incomplete": []
}
```

Lighthouse Accessibility Results

```
{
  "pages": [
    {
      "url": "index.html",
      "score": 1,
      "failedAudits": []
    },
    {
      "url": "pages/students.html",
      "score": 1,
      "failedAudits": []
    },
    {
      "url": "pages/glossary-and-faq.html",
      "score": 1,
      "failedAudits": []
    },
    {
      "url": "pages/license-and-credits.html",
      "score": 1,
      "failedAudits": []
    },
    {
      "url": "pages/about.html",
      "score": 1,
      "failedAudits": []
    }
  ]
}
```

Pa11y Accessibility Results

```
{
  "pages": [
    {
      "url": "index.html",
      "documentTitle": "Web Witchcraft and Wizardry",
      "pageUrl": "http://localhost:8080/",
      "issues": []
    },
    {
      "url": "pages/students.html",
      "documentTitle": "Web Witchcraft and Wizardry",
      "pageUrl": "http://localhost:8080/pages/students",
      "issues": []
    },
    {
      "url": "pages/glossary-and-faq.html",
      "documentTitle": "Glossary and FAQ|Web Witchcraft and Wizardry",
      "pageUrl": "http://localhost:8080/pages/glossary-and-faq",
      "issues": []
    },
    {
      "url": "pages/license-and-credits.html",
      "documentTitle": "Web Witchcraft and Wizardry",
      "pageUrl": "http://localhost:8080/pages/license-and-credits",
      "issues": []
    },
    {
      "url": "pages/about.html",
      "documentTitle": "About|Web Witchcraft and Wizardry",
      "pageUrl": "http://localhost:8080/pages/about",
      "issues": []
    }
  ]
}
```

WAVE Accessibility Results

```
1   {
      "pages": [
        {
          "url": "index.html",
          "errors": 0,
6         "alerts": 2,
          "features": 1,
          "structural": 7,
          "contrast": 0,
          "errorItems": [],
11        "alertItems": [
            {
              "id": "h1_missing",
              "description": "Missing first level heading",
              "count": 1
16          },
            {
              "id": "noscript",
              "description": "Noscript element",
              "count": 1
21          }
          ],
          "contrastItems": [],
          "waveUrl": "http://wave.webaim.org/report?url=https://crinkly-
              majorie-dramatic.ngrok-free.dev/index.html"
        },
26        {
          "url": "pages/students.html",
          "errors": 0,
          "alerts": 2,
          "features": 1,
31        "structural": 7,
          "contrast": 0,
          "errorItems": [],
          "alertItems": [
            {
36            "id": "h1_missing",
              "description": "Missing first level heading",
              "count": 1
            },
            {
41            "id": "noscript",
              "description": "Noscript element",
              "count": 1
            }
          ],
46        "contrastItems": [],
          "waveUrl": "http://wave.webaim.org/report?url=https://crinkly-
              majorie-dramatic.ngrok-free.dev/pages/students.html"
        },
        {
```

```
            "url": "pages/glossary-and-faq.html",
51          "errors": 0,
            "alerts": 2,
            "features": 1,
            "structural": 7,
            "contrast": 0,
56          "errorItems": [],
            "alertItems": [
              {
                "id": "h1_missing",
                "description": "Missing first level heading",
61              "count": 1
              },
              {
                "id": "noscript",
                "description": "Noscript element",
66              "count": 1
              }
            ],
            "contrastItems": [],
            "waveUrl": "http://wave.webaim.org/report?url=https://crinkly-
                majorie-dramatic.ngrok-free.dev/pages/glossary-and-faq.html"
71      },
        {
            "url": "pages/license-and-credits.html",
            "errors": 0,
            "alerts": 2,
76          "features": 1,
            "structural": 7,
            "contrast": 0,
            "errorItems": [],
            "alertItems": [
81            {
                "id": "h1_missing",
                "description": "Missing first level heading",
                "count": 1
              },
86            {
                "id": "noscript",
                "description": "Noscript element",
                "count": 1
              }
91          ],
            "contrastItems": [],
            "waveUrl": "http://wave.webaim.org/report?url=https://crinkly-
                majorie-dramatic.ngrok-free.dev/pages/license-and-credits.html
                "
        },
        {
96          "url": "pages/about.html",
            "errors": 0,
            "alerts": 2,
            "features": 1,
```

```
        "structural": 7,
        "contrast": 0,
        "errorItems": [],
        "alertItems": [
          {
            "id": "h1_missing",
            "description": "Missing first level heading",
            "count": 1
          },
          {
            "id": "noscript",
            "description": "Noscript element",
            "count": 1
          }
        ],
        "contrastItems": [],
        "waveUrl": "http://wave.webaim.org/report?url=https://crinkly-
            majorie-dramatic.ngrok-free.dev/pages/about.html"
      }
    ]
}
```

Reading Age Analysis Results

```json
{
  "pages": [
    {
      "file": "./pages/students.html",
      "wordCount": 526,
      "fleschReadingEase": 64.4,
      "fleschKincaidGrade": 8.9,
      "smogIndex": 11.6,
      "colemanLiauIndex": 9,
      "automatedReadabilityIndex": 9.1,
      "averageGradeLevel": 9.7,
      "readingLevel": "Plain English (High School)",
      "readingAge": "15-16 years"
    },
    {
      "file": "./pages/glossary-and-faq.html",
      "wordCount": 81,
      "fleschReadingEase": 69.8,
      "fleschKincaidGrade": 6.4,
      "smogIndex": 10.3,
      "colemanLiauIndex": 8.6,
      "automatedReadabilityIndex": 6,
      "averageGradeLevel": 7.8,
      "readingLevel": "Fairly Easy (Middle School)",
      "readingAge": "13-14 years"
    },
    {
      "file": "./pages/about.html",
      "wordCount": 1922,
      "fleschReadingEase": 59.6,
      "fleschKincaidGrade": 8.8,
      "smogIndex": 11.4,
      "colemanLiauIndex": 9.9,
      "automatedReadabilityIndex": 8.5,
      "averageGradeLevel": 9.7,
      "readingLevel": "Plain English (High School)",
      "readingAge": "15-16 years"
    }
  ]
}
```

Cross-Browser Compatibility Results

```
{
  "browsers": [
    {
      "name": "chromium",
      "status": "passed",
      "error": null,
      "tests": [
        {
          "name": "Home page title",
          "status": "passed"
        },
        {
          "name": "Home navigation links",
          "status": "passed"
        },
        {
          "name": "Home JavaScript execution",
          "status": "passed"
        },
        {
          "name": "Home CSS Grid",
          "status": "passed"
        },
        {
          "name": "Home CSS Flexbox",
          "status": "passed"
        },
        {
          "name": "Home CSS Variables",
          "status": "passed"
        },
        {
          "name": "Home SVG support",
          "status": "passed"
        },
        {
          "name": "Home responsive viewport",
          "status": "passed"
        },
        {
          "name": "Home CSS calc()",
          "status": "passed"
        },
        {
          "name": "Home font rendering",
          "status": "passed"
        },
        {
          "name": "About page title",
          "status": "passed"
        },
```

```
         {
           "name": "About navigation links",
           "status": "passed"
         },
         {
           "name": "About JavaScript execution",
           "status": "passed"
         },
         {
           "name": "About CSS Grid",
           "status": "passed"
         },
         {
           "name": "About CSS Flexbox",
           "status": "passed"
         },
         {
           "name": "About CSS Variables",
           "status": "passed"
         },
         {
           "name": "About SVG support",
           "status": "passed"
         },
         {
           "name": "About responsive viewport",
           "status": "passed"
         },
         {
           "name": "About CSS calc()",
           "status": "passed"
         },
         {
           "name": "About font rendering",
           "status": "passed"
         },
         {
           "name": "Students page title",
           "status": "passed"
         },
         {
           "name": "Students navigation links",
           "status": "passed"
         },
         {
           "name": "Students JavaScript execution",
           "status": "passed"
         },
         {
           "name": "Students CSS Grid",
           "status": "passed"
         },
         {
```

```
         "name": "Students CSS Flexbox",
         "status": "passed"
       },
       {
         "name": "Students CSS Variables",
         "status": "passed"
       },
       {
         "name": "Students SVG support",
         "status": "passed"
       },
       {
         "name": "Students responsive viewport",
         "status": "passed"
       },
       {
         "name": "Students CSS calc()",
         "status": "passed"
       },
       {
         "name": "Students font rendering",
         "status": "passed"
       },
       {
         "name": "Glossary & FAQ page title",
         "status": "passed"
       },
       {
         "name": "Glossary & FAQ navigation links",
         "status": "passed"
       },
       {
         "name": "Glossary & FAQ JavaScript execution",
         "status": "passed"
       },
       {
         "name": "Glossary & FAQ CSS Grid",
         "status": "passed"
       },
       {
         "name": "Glossary & FAQ CSS Flexbox",
         "status": "passed"
       },
       {
         "name": "Glossary & FAQ CSS Variables",
         "status": "passed"
       },
       {
         "name": "Glossary & FAQ SVG support",
         "status": "passed"
       },
       {
         "name": "Glossary & FAQ responsive viewport",
```

```
             "status": "passed"
           },
160          {
             "name": "Glossary & FAQ CSS calc()",
             "status": "passed"
           },
           {
165          "name": "Glossary & FAQ font rendering",
             "status": "passed"
           },
           {
             "name": "License & Credits page title",
170          "status": "passed"
           },
           {
             "name": "License & Credits navigation links",
             "status": "passed"
175        },
           {
             "name": "License & Credits JavaScript execution",
             "status": "passed"
           },
180        {
             "name": "License & Credits CSS Grid",
             "status": "passed"
           },
           {
185          "name": "License & Credits CSS Flexbox",
             "status": "passed"
           },
           {
             "name": "License & Credits CSS Variables",
190          "status": "passed"
           },
           {
             "name": "License & Credits SVG support",
             "status": "passed"
195        },
           {
             "name": "License & Credits responsive viewport",
             "status": "passed"
           },
200        {
             "name": "License & Credits CSS calc()",
             "status": "passed"
           },
           {
205          "name": "License & Credits font rendering",
             "status": "passed"
           }
         ]
       },
210      {
```

```
        "name": "firefox",
        "status": "passed",
        "error": null,
        "tests": [
215       {
            "name": "Home page title",
            "status": "passed"
          },
          {
220         "name": "Home navigation links",
            "status": "passed"
          },
          {
            "name": "Home JavaScript execution",
225         "status": "passed"
          },
          {
            "name": "Home CSS Grid",
            "status": "passed"
230       },
          {
            "name": "Home CSS Flexbox",
            "status": "passed"
          },
235       {
            "name": "Home CSS Variables",
            "status": "passed"
          },
          {
240         "name": "Home SVG support",
            "status": "passed"
          },
          {
            "name": "Home responsive viewport",
245         "status": "passed"
          },
          {
            "name": "Home CSS calc()",
            "status": "passed"
250       },
          {
            "name": "Home font rendering",
            "status": "passed"
          },
255       {
            "name": "About page title",
            "status": "passed"
          },
          {
260         "name": "About navigation links",
            "status": "passed"
          },
          {
```

```
           "name": "About JavaScript execution",
265            "status": "passed"
         },
         {
           "name": "About CSS Grid",
           "status": "passed"
270        },
         {
           "name": "About CSS Flexbox",
           "status": "passed"
         },
275        {
           "name": "About CSS Variables",
           "status": "passed"
         },
         {
280          "name": "About SVG support",
           "status": "passed"
         },
         {
           "name": "About responsive viewport",
285          "status": "passed"
         },
         {
           "name": "About CSS calc()",
           "status": "passed"
290        },
         {
           "name": "About font rendering",
           "status": "passed"
         },
295        {
           "name": "Students page title",
           "status": "passed"
         },
         {
300          "name": "Students navigation links",
           "status": "passed"
         },
         {
           "name": "Students JavaScript execution",
305          "status": "passed"
         },
         {
           "name": "Students CSS Grid",
           "status": "passed"
310        },
         {
           "name": "Students CSS Flexbox",
           "status": "passed"
         },
315        {
           "name": "Students CSS Variables",
```

```
            "status": "passed"
          },
          {
            "name": "Students SVG support",
            "status": "passed"
          },
          {
            "name": "Students responsive viewport",
            "status": "passed"
          },
          {
            "name": "Students CSS calc()",
            "status": "passed"
          },
          {
            "name": "Students font rendering",
            "status": "passed"
          },
          {
            "name": "Glossary & FAQ page title",
            "status": "passed"
          },
          {
            "name": "Glossary & FAQ navigation links",
            "status": "passed"
          },
          {
            "name": "Glossary & FAQ JavaScript execution",
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          {
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570     {
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620         "status": "passed"
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