

230 Web Frontend Development Standards

The following list is modeled, in part, after [The Front-End Checklist](https://frontendchecklist.io/) [\(https://frontendchecklist.io/\)](https://frontendchecklist.io/) by David Dias.

The references are to [MDN web doc by moz://a](https://developer.mozilla.org/en-US/) [\(https://developer.mozilla.org/en-US/\)](https://developer.mozilla.org/en-US/) sources.

Overall

- All folders and files follow [the course naming rules](https://byui.instructure.com/courses/98400/pages/web-naming-rules) [\(https://byui.instructure.com/courses/98400/pages/web-naming-rules\)](https://byui.instructure.com/courses/98400/pages/web-naming-rules) which include lowercase only, no spaces, and are friendly/semantic.
- No relevant violations of **design principles** of [alignment, proximity, contrast, repetition](https://byui.instructure.com/courses/98400/pages/w02-activity-design-principles) [\(https://byui.instructure.com/courses/98400/pages/w02-activity-design-principles\)](https://byui.instructure.com/courses/98400/pages/w02-activity-design-principles), and usable typography.
- The visual appearance of all pages in the site must be **responsive**, uniform, and consistent at three, basic view levels.
- The page/site does not contain spelling and grammatical errors.

Head

The following are correctly declared and used in the head section of all [HTML](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/html) [\(https://developer.mozilla.org/en-US/docs/Web/HTML/Element/html\)](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/html) pages.

- **HTML5 doctype** [\(https://developer.mozilla.org/en-US/docs/Glossary/Doctype\)](https://developer.mozilla.org/en-US/docs/Glossary/Doctype)
- **meta charset attribute** [\(https://developer.mozilla.org/en-US/docs/Web/HTML/Element/meta\)](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/meta)
- **meta viewport** [\(https://developer.mozilla.org/en-US/docs/Mozilla/Mobile/Viewport_meta_tag\)](https://developer.mozilla.org/en-US/docs/Mozilla/Mobile/Viewport_meta_tag) (do not use a maximum-scale)
- **A meaningful title** [\(https://developer.mozilla.org/en-US/docs/Web/HTML/Element/title?ref=frontendchecklist\)](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/title?ref=frontendchecklist) (about 70 characters maximum)
- **meta description** [\(https://developer.mozilla.org/en-US/docs/Learn/HTML/Introduction_to_HTML/The_head_metadata_in_HTML#Adding_an_author_and_description?ref=frontendchecklist\)](https://developer.mozilla.org/en-US/docs/Learn/HTML/Introduction_to_HTML/The_head_metadata_in_HTML#Adding_an_author_and_description?ref=frontendchecklist) (SEO - unique and no more than 300 characters)
- **external CSS file references** [\(https://developer.mozilla.org/en-US/docs/Web/HTML/Element/link\)](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/link) are in the proper order

HTML

- W3C compliant - validated to identify **possible** issues - [W3C validator](https://validator.w3.org/?ref=frontendchecklist) [\(https://validator.w3.org/?ref=frontendchecklist\)](https://validator.w3.org/?ref=frontendchecklist)
- **Semantic elements** [\(https://htmlreference.io\)](https://htmlreference.io) are used
- Check for broken links - [W3C Link Checker](https://validator.w3.org/checklink?ref=frontendchecklist) [\(https://validator.w3.org/checklink?ref=frontendchecklist\)](https://validator.w3.org/checklink?ref=frontendchecklist)

CSS

- All embedded or inline CSS is avoided
- W3C compliant - validated to identify possible issues - [W3C validator](https://jigsaw.w3.org/css-validator/) [\(https://jigsaw.w3.org/css-validator/\)](https://jigsaw.w3.org/css-validator/)
- **CSS normalize** [\(https://necolas.github.io/normalize.css\)](https://necolas.github.io/normalize.css) is used and up to date
- **Unique ID selectors** [\(https://developer.mozilla.org/en-US/docs/Web/CSS/ID_selectors\)](https://developer.mozilla.org/en-US/docs/Web/CSS/ID_selectors) - if an ID selector is used, it is unique to a page (the planned use of [class selector](https://developer.mozilla.org/en-US/docs/Web/CSS/Class_selectors) [\(https://developer.mozilla.org/en-US/docs/Web/CSS/Class_selectors\)](https://developer.mozilla.org/en-US/docs/Web/CSS/Class_selectors) is preferred)

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- All pages are tested for responsive web design with appropriately sized text, links, and no scrolling to the right nor deadspace.
- The CSS is not repeated/duplicated unnecessarily between views nor duplicated because of the use of non-congruent selectors nor left unused from the design and development cycle.
- No reasonable violations of design principles in the styling and layout in all three views.

JavaScript

- No errors nor references to unused JavaScript functions per page
- No output to the console in the live version of the page

Images

- **Optimized** (https://developer.mozilla.org/en-US/docs/Learn/HTML/Multimedia_and_embedding/Images_in_HTML) to fit the design needs of the site (image is no larger than needed at its maximum size on the page)
- **Aspect ratios** (<https://developers.google.com/web/tools/lighthouse/audits/aspect-ratio>) match the saved image ratio
- The **alt attribute** (<https://developer.mozilla.org/en-US/docs/Web/HTML/Element/img>) is assigned a relevant value

Accessibility

- The **lang attribute** (https://developer.mozilla.org/en-US/docs/Web/HTML/Global_attributes/lang) is used in the opening <html> tag
- **Headings** (https://developer.mozilla.org/en-US/docs/Web/HTML/Element/Heading_Elements) are used in the proper order
- **Accessibility** (<https://developer.mozilla.org/en-US/docs/Web/Accessibility>) test errors and warnings are reviewed - **wave testing through the web developer extension** (<http://wave.webaim.org/>)
- No **color contrast** (https://developer.mozilla.org/en-US/docs/Learn/Tools_and_testing/Cross_browser_testing/Accessibility#Color_and_color_contrast) violations - **DevTools Audit** (<https://developers.google.com/web/tools/chrome-devtools/accessibility/reference#contrast>)

Performance

- The page weight does not exceed 500KB
- **Google Pagespeed test** (<https://developers.google.com/speed/pagespeed/insights>) results at least 90