

Naming Convention for Testing

- test<Function><Given>_should<Effect>
 - testTriangleWithNegativeSideLengths_shouldThrowException()
 - testTriangleWithEqualSideLengths_shouldBeEquilateral()

HTML/CSS Style Guide

(took inspiration from <https://google.github.io/styleguide/htmlcssguide.html>)

- Use HTTPS for embedded resources where possible
 - Ex. `@import 'https://fonts.googleapis.com/css?family=Open+Sans';`
- Indentation - indent by 2 spaces at a time
- Capitalization - use only lowercase (even for color codes)
- Remove trailing whitespace
- Use UTF-8 Encoding
 - Specify with `<meta charset="utf-8">` in HTML file
- Comments - explain what the code covers and does
- Use HTML5
- Use HTML according to its purpose (ie. use heading elements for headings, p elements for paragraphs, etc.)
- Use a new line for every block, list, or table element and indent every such child element
- Use double quotes "" rather than single quotes ' around attribute values
- Use meaningful or generic ID and class names
- Use shorthand properties where possible (like font)

```
/* Not recommended */
border-top-style: none;
font-family: palatino, georgia, serif;
font-size: 100%;
line-height: 1.6;
padding-bottom: 2em;
padding-left: 1em;
padding-right: 1em;
padding-top: 0;
```

```
/* Recommended */
border-top: 0;
font: 100%/1.6 palatino, georgia, serif;
padding: 0 1em 2em;
```

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- Omit leading "0"s in values (ex. leave values as .8 instead of 0.8)
- Use a space after every property name's colon (ex. Font-weight: bold;)
- Separate CSS selectors and declarations by new lines

```
/* Not recommended */
a:focus, a:active {
  position: relative; top: 1px;
}
```

```
/* Recommended */
h1,
h2,
h3 {
  font-weight: normal;
  line-height: 1.2;
}
```

- Separate rules by new lines (two lines breaks)

Javascript Style Guide

(took inspiration from <https://google.github.io/styleguide/jsguide.html#file-name>)

- Naming conventions - lower Camel Case (ie. lowerCamelCase)
- Constant names should be ALL CAPITALS
- Use {} for all control structures UNLESS it's a simple if statement that can fit on one line
- Block indentations should be 2 spaces
- One statement per line
- Limit each line of code to 80 characters
- Line-wrapping (breaking up long code to fit within column limit) should be indented at least 4 spaces from the original line
- Use parentheses to group conditionals and equations to make it more readable
- Comments should be clear on what a block of code does
- Declare variables when needed and initialize them ASAP
- Use trailing commas and line breaks for instantiating arrays of multiple elements

```
const values = [
  'first value',
  'second value',
];
```

- Delimit strings with single quotes ' '
- Add a default case to all switches, even if it is empty
- Sources/Citations used should be included in README (in both own branch and master branch)