While you're waiting:

1. Hop on Slack
2. Vote on the two polls about last week's session
3. Add the priority guide you made last week to the shared Google Drive folder (include your first initial and last name in the filename, pls)

Today's agenda

1. Slack checkin

Today's agenda

1. Slack checkin

2. CSS

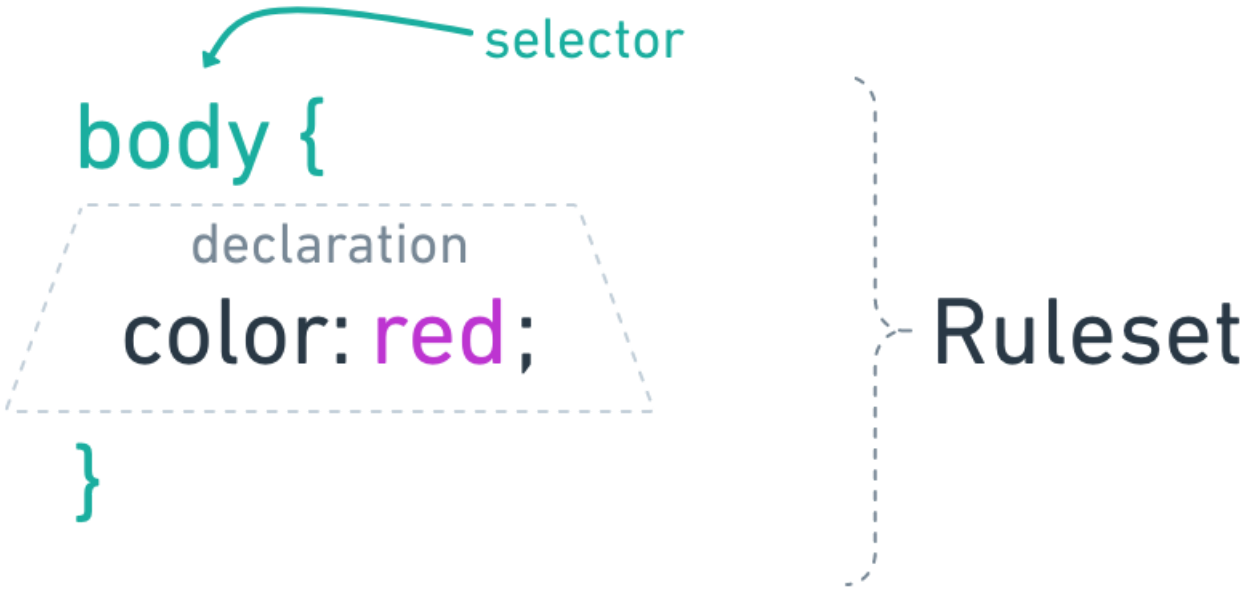
- The cascade
- Defaults to be aware of
- Best practices
- Structuring your CSS
- Naming structures
- Some gotchas
- Sass: CSS superpowers

Deep dive into CSS

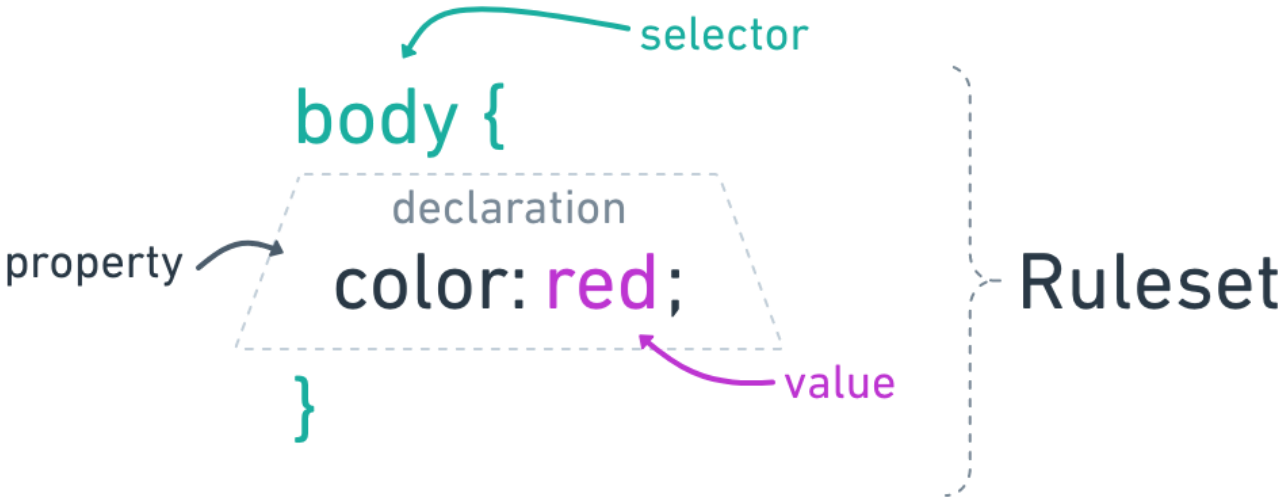
Talking about CSS

Talking about CSS

Talking about CSS



Talking about CSS



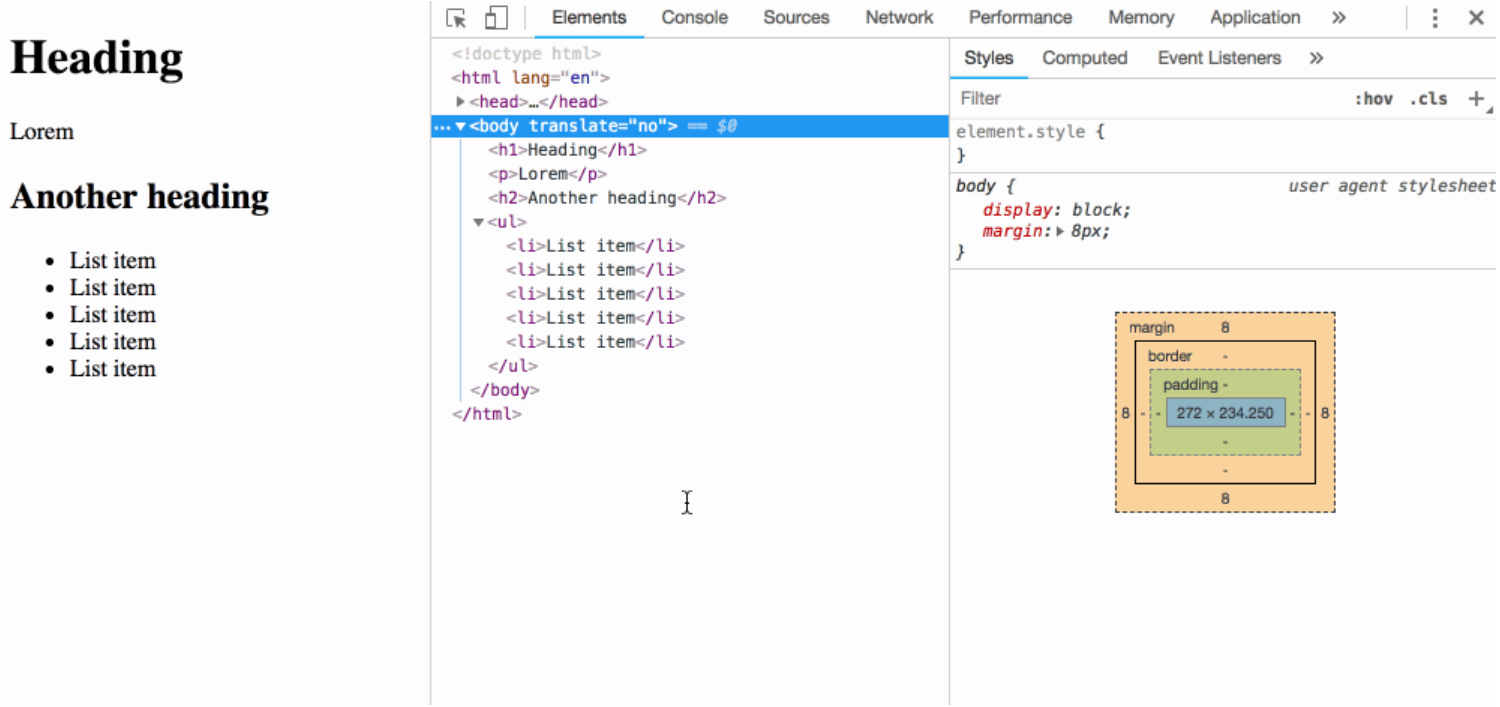
The cascade

CSS defaults

Inline elements

Block-level elements

Browser defaults



Best practices

Use classnames over bare elements or IDs

Best practices

Use classnames over bare elements or IDs

```
<h1 class="page-title cursive"></h1>
```

Best practices

Use classnames over bare elements or IDs

```
<h1 class="page-title cursive"></h1>
```

Write your CSS lowercase and kebab case

Best practices

Use classnames over bare elements or IDs

```
<h1 class="page-title cursive"></h1>
```

Write your CSS lowercase and kebab case

```
.page-title {
  text-transform: uppercase;
}
```

Best practices

Use classnames over bare elements or IDs

```
<h1 class="page-title cursive"></h1>
```

Write your CSS lowercase and kebab case

```
.page-title {
  text-transform: uppercase;
}
```

Transform case using CSS

Best practices

Use classnames over bare elements or IDs

```
<h1 class="page-title cursive"></h1>
```

Write your CSS lowercase and kebab case

```
.page-title {
  text-transform: uppercase;
}
```

Transform case using CSS

Remember your semicolon

Best practices

Learn about methods of organizing CSS/Sass and use a system

Best practices

Learn about methods of organizing CSS/Sass and use a system

```
div {
  background-color:
whitesmoke;
  border: 3px dotted #f9c7dd;
  color: #444;
  display: inline-block;
  font-family: "Montserrat",
sans-serif;
  font-size: 100%;
  padding: 1em;
}
```

Best practices

Learn about methods of organizing CSS/Sass and use a system

```
div {
  background-color:
whitesmoke;
  border: 3px dotted #f9c7dd;
  color: #444;
  display: inline-block;
  font-family: "Montserrat",
sans-serif;
  font-size: 100%;
  padding: 1em;
}
```

```
div {
  /* -- Box -- */
  display: inline-block;
  padding: 1em;

  /* -- Border -- */
  border: 3px dotted #f9c7dd;


  /* -- Background -- */
  background-color:
whitesmoke;

  /* -- Text -- */
  color: #444;
  font-family: "Montserrat",
sans-serif;
  font-size: 100%;
}
```

Best practices

Use CSS comments

Best practices

Use CSS comments

```
/*
* === SITE HEADER ===
*/
```

```
/*
* --- Header nav ---
*/
```

Best practices

Avoid `!important`

Best practices

Avoid using empty `divs` to achieve your styles

```
<div class="something-fancy"></div>
```

Best practices

Measurements of zero don't need units

Best practices

Measurements of zero don't need units

Avoid

```
div {
  margin: 0px;
  padding: 0px;
  width: 0px;
}
```

Do this

```
div {
  margin: 0;
  padding: 0;
  width: 0;
}
```

Best practices

Avoid overdoing your selectors and specificity

Best practices

Avoid overdoing your selectors and specificity

```
<header class="site-header">
  <nav class="nav-bar">
    <ul class="nav-menu">
      <li class="nav-
menu__item"></li>
      <li class="nav-
menu__item"></li>
      <li class="nav-
menu__item"></li>
    </ul>
  </nav>
</header>
```

Best practices

Avoid overdoing your selectors and specificity

```
<header class="site-header">
  <nav class="nav-bar">
    <ul class="nav-menu">
      <li class="nav-
menu__item"></li>
      <li class="nav-
menu__item"></li>
      <li class="nav-
menu__item"></li>
    </ul>
  </nav>
</header>
```

Avoid

```
header.site-header nav.nav-
bar ul.nav-menu li.nav-
menu__item {}
```

Best practices

Avoid overdoing your selectors and specificity

```
<header class="site-header">
  <nav class="nav-bar">
    <ul class="nav-menu">
      <li class="nav-
menu__item"></li>
      <li class="nav-
menu__item"></li>
      <li class="nav-
menu__item"></li>
    </ul>
  </nav>
</header>
```

Avoid

```
header.site-header nav.nav-
bar ul.nav-menu li.nav-
menu__item {}
```

Do this

```
.nav-menu__item {}
```

OR

```
.site-header .nav-menu__item
{}
```

Best practices

Avoid making unnecessary assumptions about the markup

Avoid

```
<span class="highlight"><a
href='#'>Highlighted link</a></span>
```

```
.highlight a { background: yellow; }
```

Best practices

Avoid making unnecessary assumptions about the markup

Avoid

```
<span class="highlight"><a
href='#'>Highlighted link</a></span>
```

```
.highlight a { background: yellow; }
```

Do this

```
<a href='#' class="highlight">Highlighted
link</a>
```

```
.highlight { background: yellow; }
```

Best practices

Avoid writing CSS you don't need

Best practices

Avoid writing CSS you don't need

```
div { display: block; }
```

Best practices

Avoid writing CSS you don't need

```
div { display: block; }
```

```
div { margin: 0 auto; }
/* This is the margin shorthand. It's the
equivalent of: */
/*  margin-top: 0;      */
/*  margin-right: auto; */
/*  margin-bottom: 0; */
/*  margin-left: auto; */
```

Best practices

Avoid writing CSS you're immediately going to override

Best practices

Avoid writing CSS you're immediately going to override

Avoid

```
li {
  display: inline-block;
  margin-left: 14px;
}
li:first-of-type { margin-left: 0; }
```

Best practices

Avoid writing CSS you're immediately going to override

Avoid

```
li {
  display: inline-block;
  margin-left: 14px;
}
li:first-of-type { margin-left: 0; }
```

Do this

```
li { display: inline-block; }
li + li { margin-left: 14px; }
```

Best practices

Avoid making an HTTP request for a resource when you can easily replicate the element with CSS

Avoid

```
li::before {
  content: url(green-
circle.svg);
}
```

Best practices

Avoid making an HTTP request for a resource when you can easily replicate the element with CSS

Avoid

```
li::before {
  content: url(green-
circle.svg);
}
```

Do this

```
li::before {
  background: green;
  border-radius: 50%;
  content: "";
  display: block;
  height: 20px;
  width: 20px;
}
```

View on CodePen: https://codepen.io/angeliquejw/pen/jvYvpy

Best practices Q&A

Structuring your CSS

1. Reset

Structuring your CSS

1. Reset
2. Utilities/helpers

Structuring your CSS

1. Reset
2. Utilities/helpers
3. Base

Structuring your CSS

1. Reset
2. Utilities/helpers
3. Base
4. Custom styles

Learn about resets

Reset.css (group 1)

- Read about it: https://meyerweb.com/eric/tools/css/reset/
- View the code: https://codepen.io/angeliquejw/pen/BOmXNa?editors=0100

Normalize.css (group 2)

- Read about it: http://nicolasgallagher.com/about-normalize-css/
- View the code: https://codepen.io/angeliquejw/pen/rZYXOz?editors=0100

Extra time? https://css-tricks.com/reboot-resets-reasoning/

Learn about resets

1. Join your group

Learn about resets

1. Join your group
2. Establish roles:
    - Timekeeper
    - Presenter

Learn about resets

1. Join your group
2. Establish roles:
    - Timekeeper
    - Presenter
3. As a group, spend 10 mins discussing:
    - 3-5 main things to know
    - 2 pros and 2 cons

Reset

https://s.codepen.io/angeliquejw/debug/ZMvqBj

Utility classes

https://codepen.io/angeliquejw/pen/wEpvqN?editors=0100

Base styles

Base styles

```
body {
  background: whitesmoke;
  color: #1b203a;
  font-family: "Fira Sans", Sans-Serif;
  margin: 0;
}

h1, h2, h3, h4, h5, h6, p, li {
  line-height: 1.5625em;
  margin: 0;
}
```

Custom CSS

Structuring your CSS Q&A

CSS Naming Conventions

BEM

BEM

Block

BEM

Block

```
.block {}
```

BEM

Block

```
.block {}
```

Element

BEM

Block

```
.block {}
```

Element

```
.block__element {}
```

BEM

Block

```
.block {}
```

Element

```
.block__element {}
```

Modifier

BEM

Block

```
.block {}
```

Element

```
.block__element {}
```

Modifier

```
.block--modifier {}
.block__element--modifier {}
```

BEM examples

```
<figure class="photo">
  <img class="photo__img" src="me.jpg">
  <figcaption class="photo__caption">C'est
moi!</figcaption>
</figure>
```

BEM examples

```
<figure class="photo">
  <img class="photo__img" src="me.jpg">
  <figcaption class="photo__caption">C'est
moi!</figcaption>
</figure>
```

```
.photo {}
.photo__img {}
.photo__caption {}
```

BEM examples

```
<figure class="photo photo--featured">
  <img class="photo__img" src="me.jpg">
  <figcaption class="photo__caption">C'est
moi!</figcaption>
</figure>
```

BEM examples

```
<figure class="photo photo--featured">
  <img class="photo__img" src="me.jpg">
  <figcaption class="photo__caption">C'est
moi!</figcaption>
</figure>
```

```
.photo {}
.photo__img {}
.photo__caption {}

.photo--featured {}
.photo--featured .photo__img {}
.photo--featured .photo__caption {}
```

BEM examples

```
<form action="#" class="search-form">

  <input class="search-form__input"
type="search">
  <button class="button search-form__button"
type="submit"></button>

</form>
```

BEM variations

By the book

```
<button class="button button--disabled"
type="submit"></button>
```

```
.button {}
.button--disabled {}
```

BEM variations

By the book

```
<button class="button button--disabled"
type="submit"></button>
```

```
.button {}
.button--disabled {}
```

Functional variation

```
<button class="button" disabled type="submit">
</button>
```

```
.button {}
.button[disabled] {}
```

BEM variations

By the book

```
<section class="plans plans--hidden">
</section>
```

```
.plans {}
.plans--hidden {}
```

BEM variations

By the book

```
<section class="plans plans--hidden">
</section>
```

```
.plans {}
.plans--hidden {}
```

Functional variation

```
<section class="plans" hidden></section>
```

```
.plans {}
.plans[hidden] {}
```

Criticisms of BEM

- Ugly

Criticisms of BEM

- Ugly
- More typing

Naming things well

Naming things well

- Understandable

Naming things well

- Understandable
- Obvious

Naming things well

- Understandable
- Obvious
- Functional

Naming things well

- Understandable
- Obvious
- Functional
- Consistent

Naming things Q&A