Ul in a web-app



CSS preprocessors

- extend functionality of the CSS
- requires tooling that generates .css file for browsers
- popular choices Sass, Less, Stylus
- alternative PostCSS

Sass

- sass-lang.com
- variables
- nesting
- operator
- mixins/inheritance

PostCSS

- https://postcss.org
- a tool for transforming CSS with JavaScript
- useful plugins: Autoprefixer, CSS Modules, stylelint

Autoprefixer

- https://github.com/postcss/autoprefixer
- https://caniuse.com

```
::placeholder {
  color: gray;
.image {
  background-image: url(image@1x.png);
@media (min-resolution: 2dppx) {
  .image {
    background-image: url(image@2x.png);
```

```
::-webkit-input-placeholder {
  color: gray;
::-moz-placeholder {
  color: gray;
:-ms-input-placeholder {
  color: gray;
::-ms-input-placeholder {
  color: gray;
::placeholder {
  color: gray;
.image {
  background-image: url(image@1x.png);
@media (-webkit-min-device-pixel-ratio: 2),
       (-o-min-device-pixel-ratio: 2/1),
       (min-resolution: 2dppx) {
  .image {
    background-image: url(image@2x.png);
```



Resolving selector conflicts

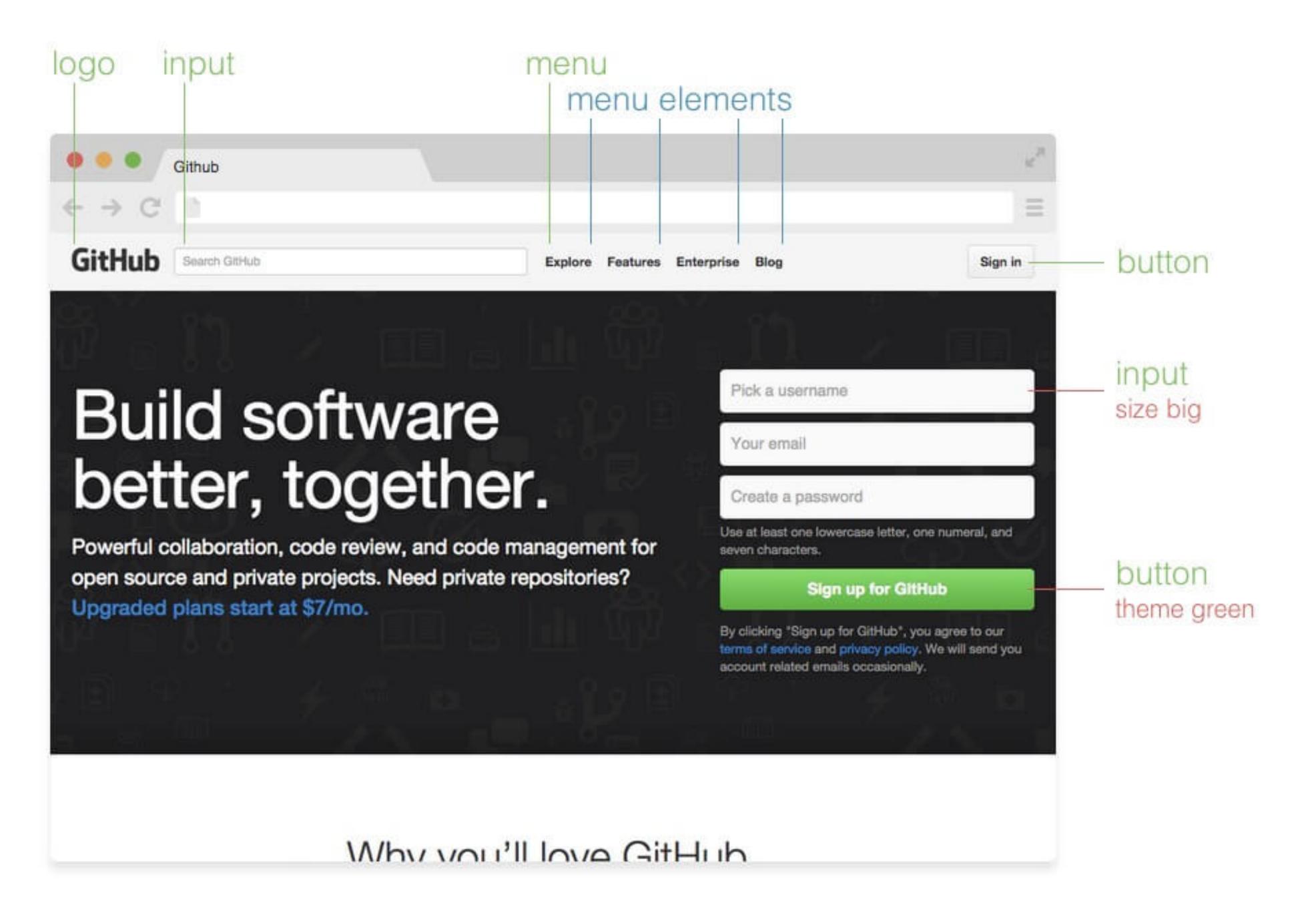
- Naming conventions: BEM, SMACSS, Atomic, ...
- CSS-Modules
- CSS in JS

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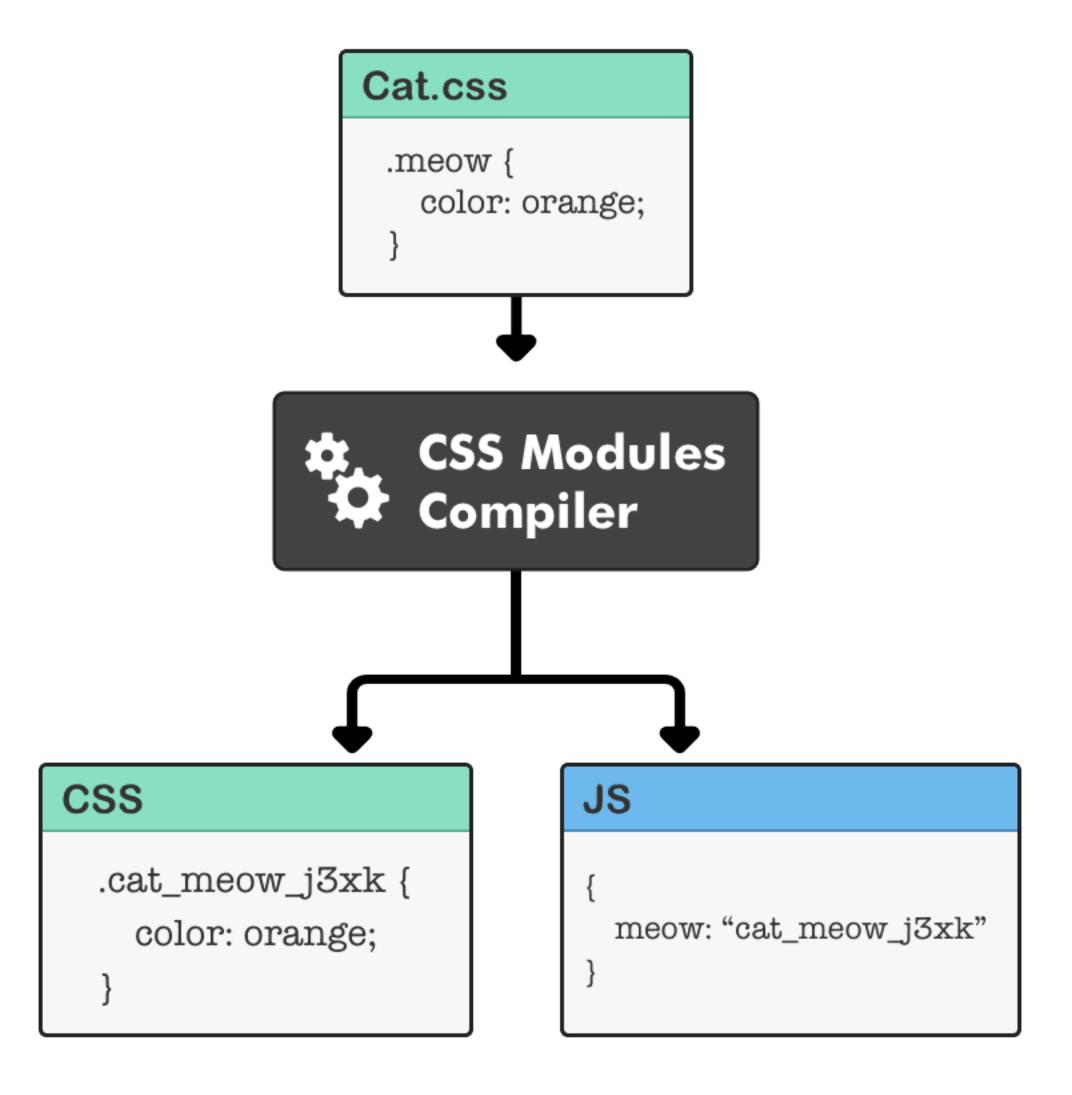
BEM

```
<button class="button">
    Normal button
</button>
<button class="button button--state-success">
    Success button
</button>
<button class="button button--state-danger">
    Danger button
</button>
```

```
.button {
   display: inline-block;
   border-radius: 3px;
   padding: 7px 12px;
   border: 1px solid #D5D5D5;
   background-image: linear-gradient(#EEE, #DDD);
   font: 700 13px/18px Helvetica, arial;
.button--state-success {
   color: #FFF;
   background: linear-gradient(#79D858, #569E3D);
   border-color: #4A993E;
.button--state-danger {
   color: #900;
```



CSS Modules



```
const Button = styled.a`
 display: inline-block;
 border-radius: 3px;
 padding: 0.5rem 0;
 margin: 0.5rem 1rem;
 width: 11rem;
 background: transparent;
 color: white;
 border: 2px solid white;
 ${props ⇒ props.primary && css`
  background: white;
  color: palevioletred;
```

```
return (
 <div>
  <Button
    href="https://google.com"
    target="_blank"
    rel="noopener"
    primary
    GitHub
  </Button>
  <Button as={Link} href="/docs">
    Documentation
  </Button>
 </div>
```

Motivation for <

- automatic critical CSS
- no class name collisions
- easier deletion of CSS
- dynamic styling using props
- automatic vendor prefixing

DEMO

tiny.cc/ui-demo

Ul Frameworks

- Tailwind
- Material-UI (<u>https://material-ui.com</u>)
- Bootstrap (https://getbootstrap.com)
- Semantic-UI

tailwindcss



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Material UI

- material-ui.com
- https://material-ui.com/components/bottom-navigation/
- https://material-ui.com/components/drawers/
- https://material-ui.com/components/app-bar/
- https://material-ui.com/components/pickers/

Useful tools

- https://github.com/css-modules/css-modules/
- https://postcss.org/
- https://sass-lang.com/
- https://www.styled-components.com/
- https://material-ui.com/
- https://css-tricks.com/snippets/css/a-guide-to-flexbox/