

CSS Pre-Processors

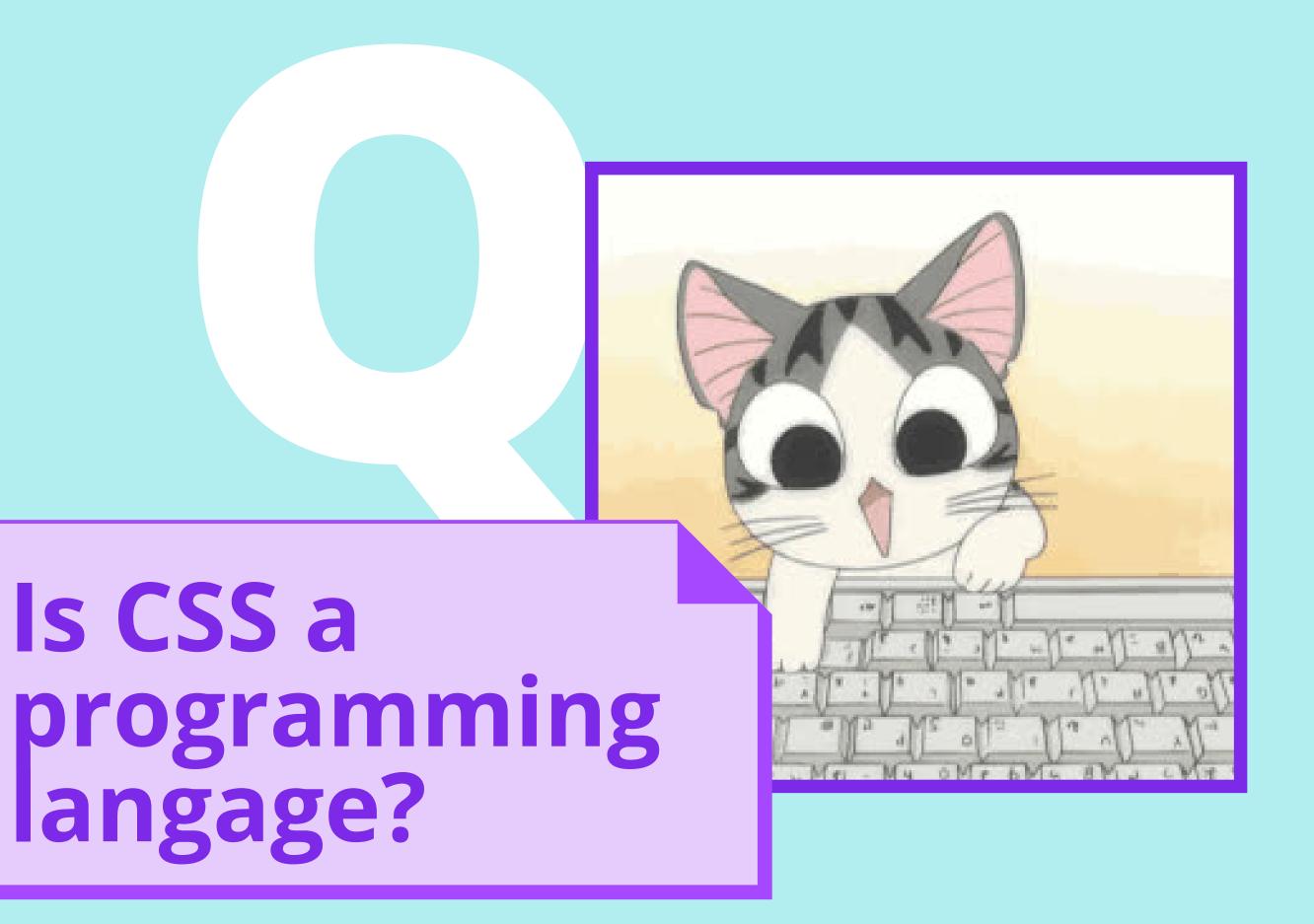




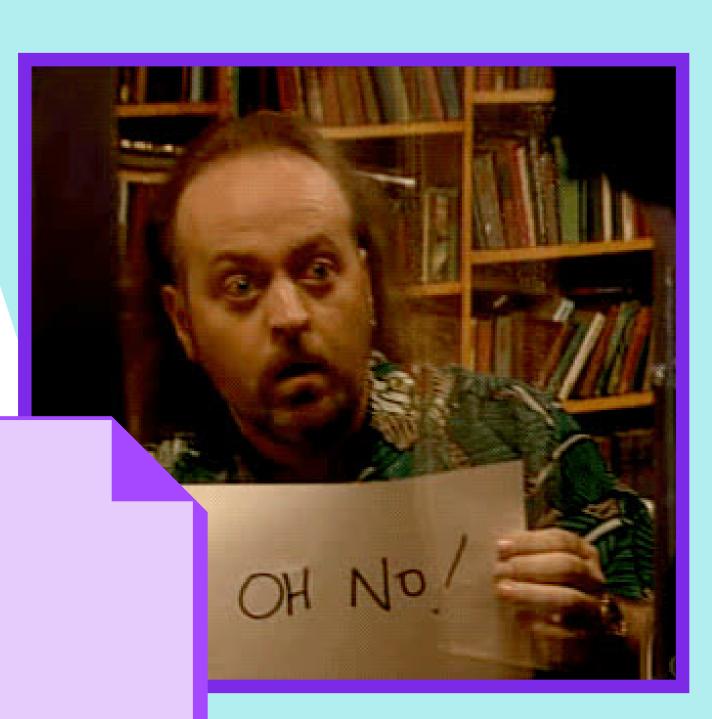
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Canva Presented by Julia Mitchelmore





Probably not.



CSS Standards



Can I please have functions in CSS?

No. Because:

- CSS needs to be fast
- We already have JavaScript

CSS Standards



My project is getting big! What else can I do?

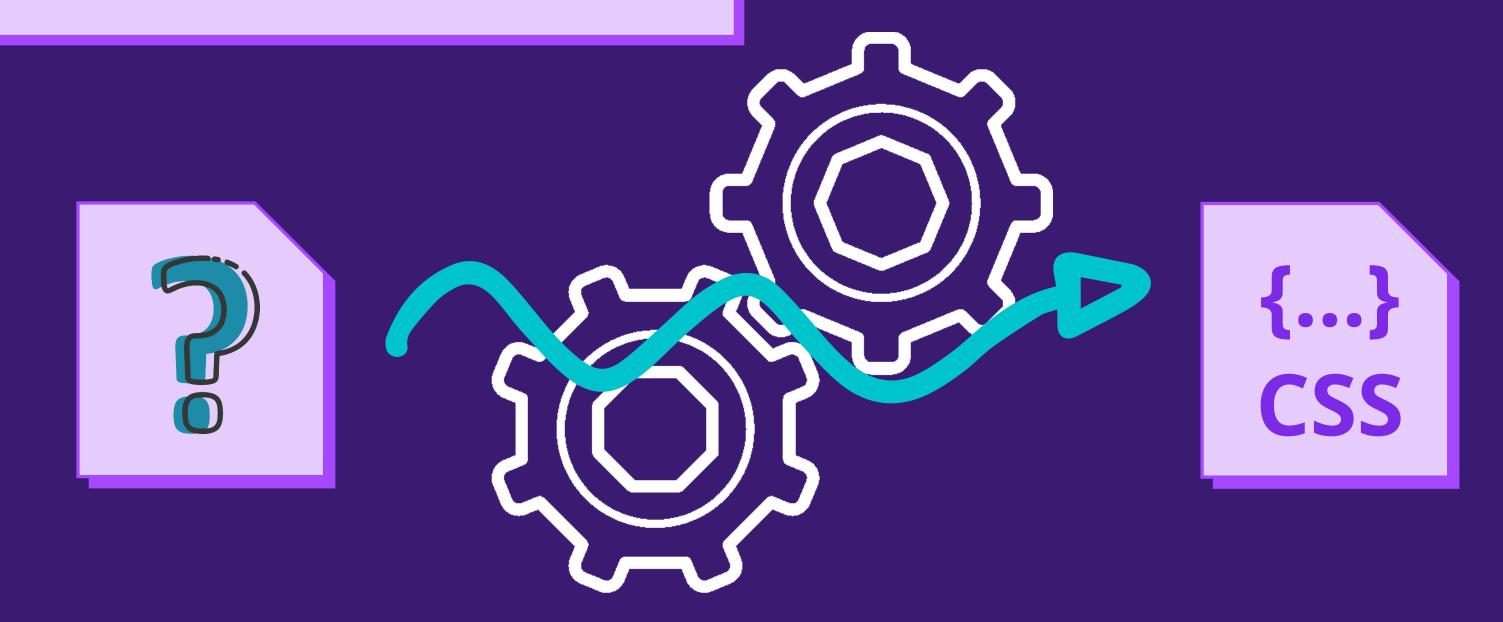


Get by with CSS variables and calc()

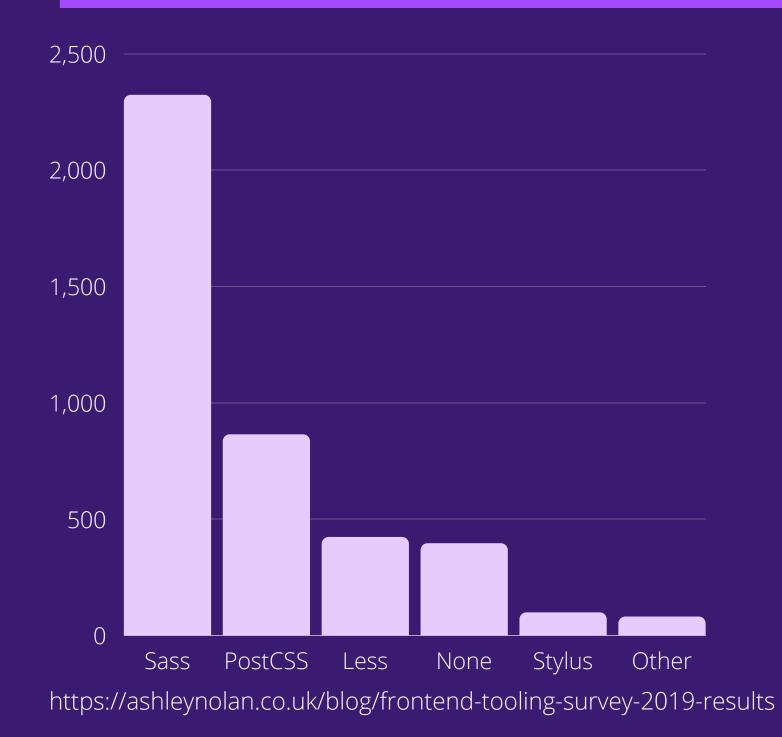
or

Use a CSS Pre-Proccessor

Pre-Proccessor



Popular Choices





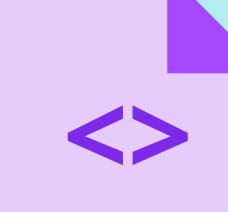




Sass & SCSS







Sass





```
$font-stack: Helvetica, sans-serif
$primary-color: #333
body
```

font: 100% \$font-stack
color: \$primary-color

```
$font-stack: Helvetica, sans-serif;
$primary-color: #333;
body {
    font: 100% $font-stack;
    color: $primary-color;
}
```

Partials & Imports

```
// _base.scss
$font-stack: Helvetica, sans-serif;
$primary-color: #333;
$secondary-color: white;
body {
    font: 100% $font-stack;
    color: $primary-color;
}
```

```
// styles.scss

@use 'base';
.main {
    background: base.$primary-color;
    color: base.$secondary-color;
}
```

```
// styles.css
body {
  font: 100% Helvetica, sans-serif;
  color: #333;
}
.main {
    background: #333;
    color: white;
}
```

Nesting

```
header {
  h1 {
    font-weight: bold;
  nav {
    ul {
      list-style: none;
    li {
      display: inline-block;
```





```
header h1 {
  font-weight: bold;
}
header nav ul {
  list-style: none;
}
header nav li {
  display: inline-block;
}
```

```
@mixin retinaOnly() {
    @media only screen and (-webkit-min-device-pixel-ratio: 2),
    only screen and (min-resolution: 192dpi) {
        @content;
    }
}
```

Mixins





Maths

But why?



- Often included for free!
- Easy decomposition
- Extra features but you don't have to use them
- Even more advanced capabilities
 - Parent selectors
 - @if, @for, @while and even @function





Go forth and be stylish!





