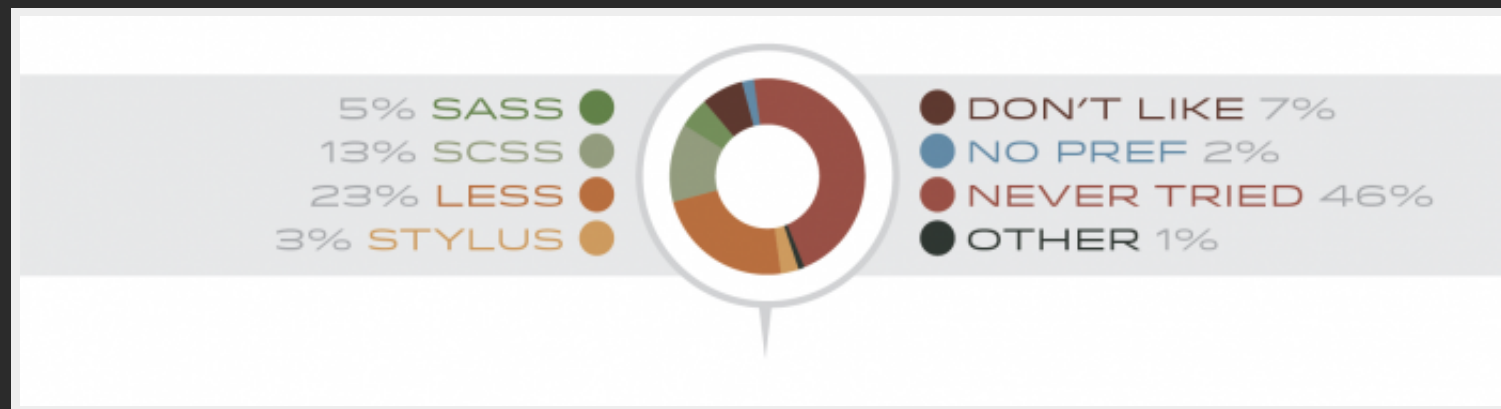# CSS PREPROCESSORS
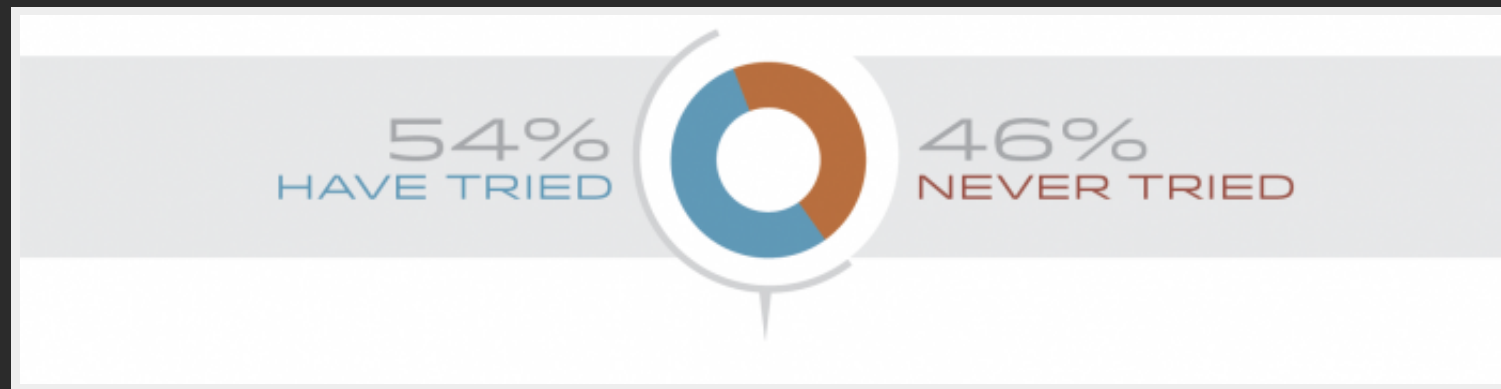
Alex Meijer - 1 Feb 2013

CSS WHAT??

" CSS preprocessors take code written in the preprocessed language and then convert that code into the same old css we've been writing for years. "

USAGE

5% SASS
13% SCSS
23% LESS
3% STYLUS

DON'T LIKE 7%
NO PREF 2%
NEVER TRIED 46%
OTHER 1%

Stats: June 2012

USAGE

54%
HAVE TRIED

46%
NEVER TRIED

TYPE OF PREPROCESSOR

41% SASS
2% OTHER

STYLUS 6%
LESS 51%

*Of those that prefer Sass,
the scss syntax is the most popular.*

71%
SCSS

29%
SASS

LESS IS MORE...

what about **SASS**?

POWER OF PREPROCESSORS!

1. Nesting
2. Variables !!!!
3. Mixins !!!!
4. Inheritance !!!!
5. many many more....

1. NESTING

```scss
//NAVIGATION
header {
    margin-top: 105px;

    nav {

        li {
            position: relative;
            float: left;
            line-height: 45px;

        }

        a {
            color: $red;
        }
```

2. VARIABLES

```
1    //COLORS
2    $blue:                #0085dd;
3    $purple:              #df0094;
4    $darkBlue:            #004153;
5    $grayGreen:           #92acb4;
6    $green:               #004153;
```

3. MIXINS

```scss
89    @mixin border-radius($radius: 4px) {
90        -webkit-border-radius: $radius;
91          -moz-border-radius: $radius;
92           -ms-border-radius: $radius;
93            -o-border-radius: $radius;
94               border-radius: $radius;
95    }
```

```scss
            ul {
                right: 0;
                display: none;
                background-color: $lightGray;
                width: 150px;
                @include border-radius(5px);
                @include box-shadow(0, 0, 3px, 1px, #888);
                border: 1px solid #666;
                position: absolute;
                overflow: hidden;
            }
```

4. INHERITANCE

```
2   .os-sprite {
3       background-image: url(img/elfsteden-sprite.png);
4       background-repeat: no-repeat;
5   }
```

```
208         a {
209             text-indent: -1234em;
210             overflow: hidden;
211             width: 60px;
212             @extend .os-sprite;
213             height: 100%;
214             background-position: -215px -377px;
```

HANDS ON!!!

MISCONCEPTIONS

- Faster CSS
- Cleaner CSS → development vs production
- LESS requires Javascript
- SASS runs on the command line → tools!

QUESTIONS?

@AmeijerNL