

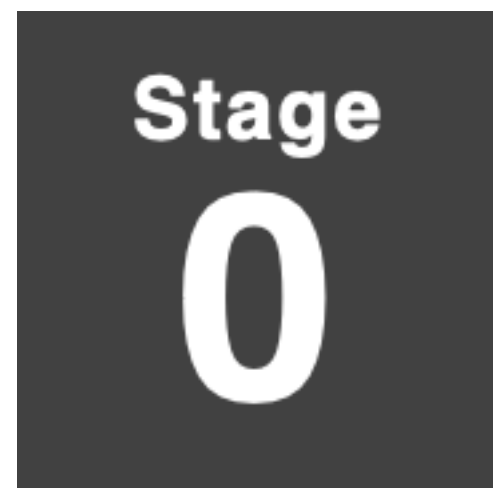
# Using the CSS Nesting Spec Today

SingaporeCSS / Talk.CSS #49 / 1 April 2020



# CSS SPEC PROCESS

FROM CRAZY IDEA TO YOUR BROWSER



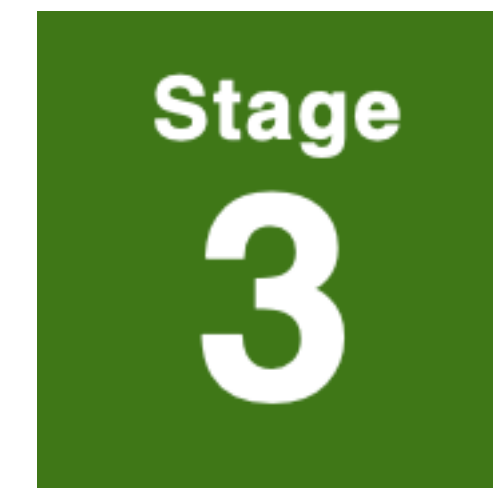
**Crazy idea**



**Editor's Draft**



**Working Draft**



**Candidate  
Recommendation**



CSS Nesting Spec

March 2019

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# NESTED RULESETS

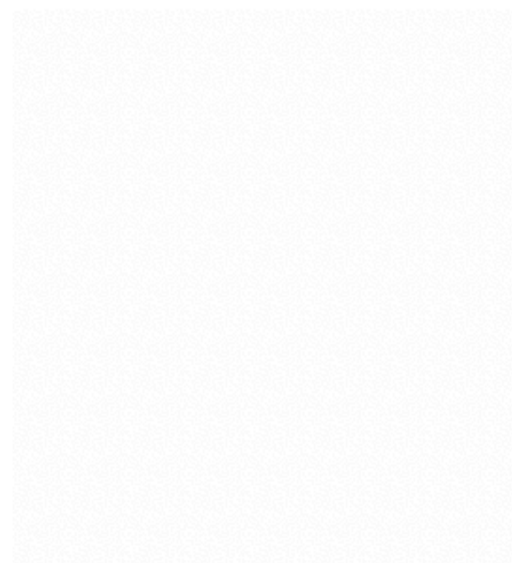
## NO MORE DUPLICATE SELECTORS

```
/* Old-school CSS */  
.Wrapper {  
  /* properties */  
}
```

```
html.js .Wrapper {  
  /* properties */  
}
```

```
@media (min-width: 40em) {  
  .Wrapper { /* properties */ }  
}
```

```
.Wrapper: hover,  
.Wrapper: focus {  
  /* properties */  
}
```



# NESTED RULESETS

## NO MORE DUPLICATE SELECTORS

```
/* Old-school CSS */
.Wrapper {
  /* properties */
}

html.js .Wrapper {
  /* properties */
}

@media (min-width: 40em) {
  | .Wrapper { /* properties */ }
}

.Wrapper: hover,
.Wrapper: focus {
  /* properties */
}
```

```
/* CSS using css-nesting spec */
.Wrapper {
  /* properties */

  @nest html.js & { /* properties */ }

  @media (min-width: 40em) { /* properties */ }

  @nest &:hover, &:focus { /* properties */ }
}
```

---

# WHY @NEST IS NEEDED

BROWSER PERFORMANCE AND LOOK-AHEAD PARSING

```
/* What if we tried Sass-style nesting? */  
.Wrapper {  
  html.js & { /* Won't work! */  
    /* properties here */  
  }  
}
```

---

# WHEN @NEST ISN'T NEEDED

WHEN & COMES FIRST

```
/* The css-nesting spec does allow  
   simple Sass-style nesting */
```

```
.Wrapper {  
  & span { /* Works! */  
    /* properties here */  
  }  
}
```

---

# EXPERIMENTAL CSS, TODAY

postcss-preset-env



## What's next for CSS?

**cssdb** is a comprehensive list of CSS features and their positions in the process of becoming implemented web standards.

<https://cssdb.org>

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# POSTCSS.CONFIG.JS

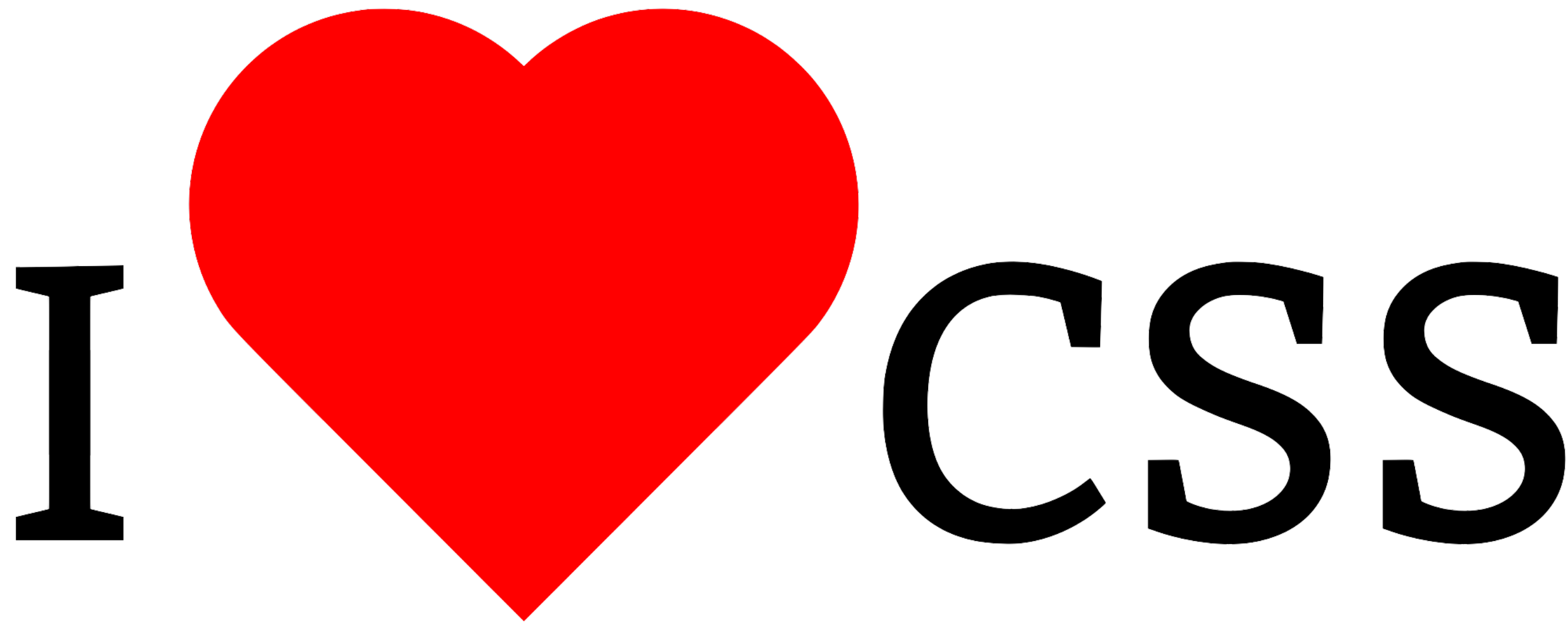
AMAZEE'S CONFIGURATION (WORK IN PROGRESS)

```
// postcss.config.js
const path = require('path');

module.exports = {
  plugins: {
    'postcss-preset-env': {
      stage: 1,
      browsers: '> 0.5%, last 2 versions, Firefox ESR, not dead',
      exportTo: path.resolve('cssValues.json');
    },
  }
};
```

---





```
:root {
  --heart-size: 20vw;
}

.heart {
  display: inline-block;
  margin-top: calc( var(--heart-size) / 5 );
  margin-left: calc( var(--heart-size) / 4 );
  margin-right: calc( var(--heart-size) / 7 );
  background-color: red;
  height: var(--heart-size);
  transform: rotate(-45deg);
  width: var(--heart-size);

  @nest &::before, &::after {
    content: "";
    background-color: red;
    border-radius: 50%;
    height: var(--heart-size);
    position: absolute;
    width: var(--heart-size);
  }
  @nest &::before {
    top: calc( -1 * var(--heart-size) / 2 );
    left: 0;
  }
}
```

<https://codepen.io/johnalbin/pen/jJJWmo>