# SFC Styling

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- .vue files typically end with a <style> tag
- By default contains CSS rules

### Scoped Styles

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- Prevent styles from affecting elements outside the component
- Adds data-v-hash attribute to all rendered elements
  - hash is same for all instances of component since styling is the same for all
  - attribute has no value, it's just present
- Generated CSS rules include check for this attribute

```
<style scoped>
.danger {
  color: red;
}
</style>
.danger[data-v-1a2b3c4d] {
  color: red;
}
```

#### Using Preprocessors

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- These add features to CSS
- Components with a small amount of styling likely don't need these features
- Popular options include
  - Sass https://sass-lang.com/
  - LESS http://lesscss.org/
  - Stylus http://stylus-lang.com/
  - PostCSS https://postcss.org/
- Specify with lang attribute in <style>
  - ex. to use Sass <style lang="scss">

#### Sass



- Advantages
  - variables
  - nested rules
  - mixins
  - parent references with &
  - math without calc() using +, -, \*, /, and %
  - provided SassScript functions
  - both /\* multi-line \*/ and// single-line comments
- Must install extra development dependencies to use Sass
  - npm install -D \
     node-sass sass-loader style-loader

```
<style lang="scss" scoped>
      .hello {
                             variable
        $font-size: 24px; ←
     → @mixin pad($size, $color: black) {
mixin
          border: solid $color 1px;
          border-radius: $size;
                                    default
          padding: $size;
                                    parameter
                                     value
        .bar {
          color: $color;
                               nested
                               rules
        .msq {
          @include pad(10px, red);
                                     variable
          font-size: $font-size; ←
                                      reference
     </style>
```

## Recommended Sass Usage

- Add class attribute to top-most template element whose name matches component name
- Wrap all component CSS in a rule that matches this class name

```
<template>
  <div class="Foo">
    ... content goes here ...
  </div>
</template>
<script>
  export default {
    name: 'Foo',
    ... instance definition goes here ...
  };
</script>
                     removes need for scoped,
                     resulting in more readable
<style lang="scss"> CSS in devtools
  .Foo {
    ... CSS rules for this component go here ...
</style>
```

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