

PREPROCESSOR STYLUS



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SETTING UP

- Install stylus

```
npm install stylus -g
```

- Compile into CSS files

```
stylus stylus/index.styl -o css/
```



stylus file



output folder

SINTAX

- You don't need keys to mark each css block, just use the indentation.
- Also you can omit the semi-colons
- You can use regular css

```
body {  
  font: 12px Helvetica, Arial, sans-serif;  
}  
a.button {  
  -webkit-border-radius: 5px;  
  -moz-border-radius: 5px;  
  border-radius: 5px;  
}
```



```
body  
  font: 12px Helvetica, Arial, sans-serif  
  
a.button  
  -webkit-border-radius: 5px  
  -moz-border-radius: 5px  
  border-radius: 5px
```

CSS

Stylus

SELECTORS AND NESTING

- Multiple objects

```
.clase1  
.clase2  
  color #333
```

- Nesting

```
.header  
  background-color #333  
  .title  
    color white
```

- Pseudo-class

```
a  
  color #555  
  &:hover  
    color #777
```

- New selectors

```
.cuadrado  
  height 200px  
  width 200px  
  &-rojo  
    background-color red
```



```
.cuadrado {  
  height: 200px;  
  width: 200px;  
}  
.cuadrado-rojo {  
  background-color: #f00;  
}
```

VARIABLES

- Don't need a symbol to declare
- Can declare a empty variable
- Can reference properties defined without assigning their values to variables

```
font-size = 14px
font-stack = "Lucida Grande", Arial, sans-serif
body
  font font-size font-stack
```

```
empty = ()
body {
  font: empty sans-serif;
}
```

```
width: w = 150px
height: h = 80px
margin-left: -(w / 2)
margin-top: -(h / 2)
```

```
margin-left: -(@width / 2)
margin-top: -(@height / 2)
```

INTERPOLATION

- Expanding properties

```
vendor(prop, args)
  -webkit-{ prop }: args
  -moz-{ prop }: args
  { prop }: args

.box
  vendor(border-radius, 10px)
```

- Iteration

```
table
  for row in 1 2 3 4 5
    tr:nth-child({row})
      height: 10px * row
```



```
table tr:nth-child(1) {
  height: 10px;
}
table tr:nth-child(2) {
  height: 20px;
}
table tr:nth-child(3) {
  height: 30px;
}
table tr:nth-child(4) {
  height: 40px;
}
table tr:nth-child(5) {
  height: 50px;
}
```

MIXINS

Component that can be reused. It also can receive arguments, have some by default or use rest params

- without argument

```
red-border()  
border: solid 2px red
```

```
div  
  red-border()
```

- with argument

```
border-radius(n)  
  -webkit-border-radius: n  
  border-radius: n
```

```
div  
  border-radius: 2px  
  border-radius(2px)
```

- default argument

```
border-radius(n = 2px)  
  -webkit-border-radius: n
```

- rest params

```
shadow(offset-x, args...)  
box-shadow: offset-x args  
margin-top: offset-x
```

```
#login  
  shadow: 1px 2px 5px #eee
```

FUNCTIONS

It is similar to mixins, However, functions return data, and mixins do not return data.

- Return values

```
add(a, b)
  a + b
```

```
body
  padding: add(10px, 5)
```

- default argument

```
add(a, b = 2)
  a + b
```

- Multiple values

```
sizes()
  8px 16px
```

```
sizes()[0] // → 8px
sizes()[1] // → 16px
```

- named parameters

```
shadow(x, y)
  x y (y * 1.5) #000
```

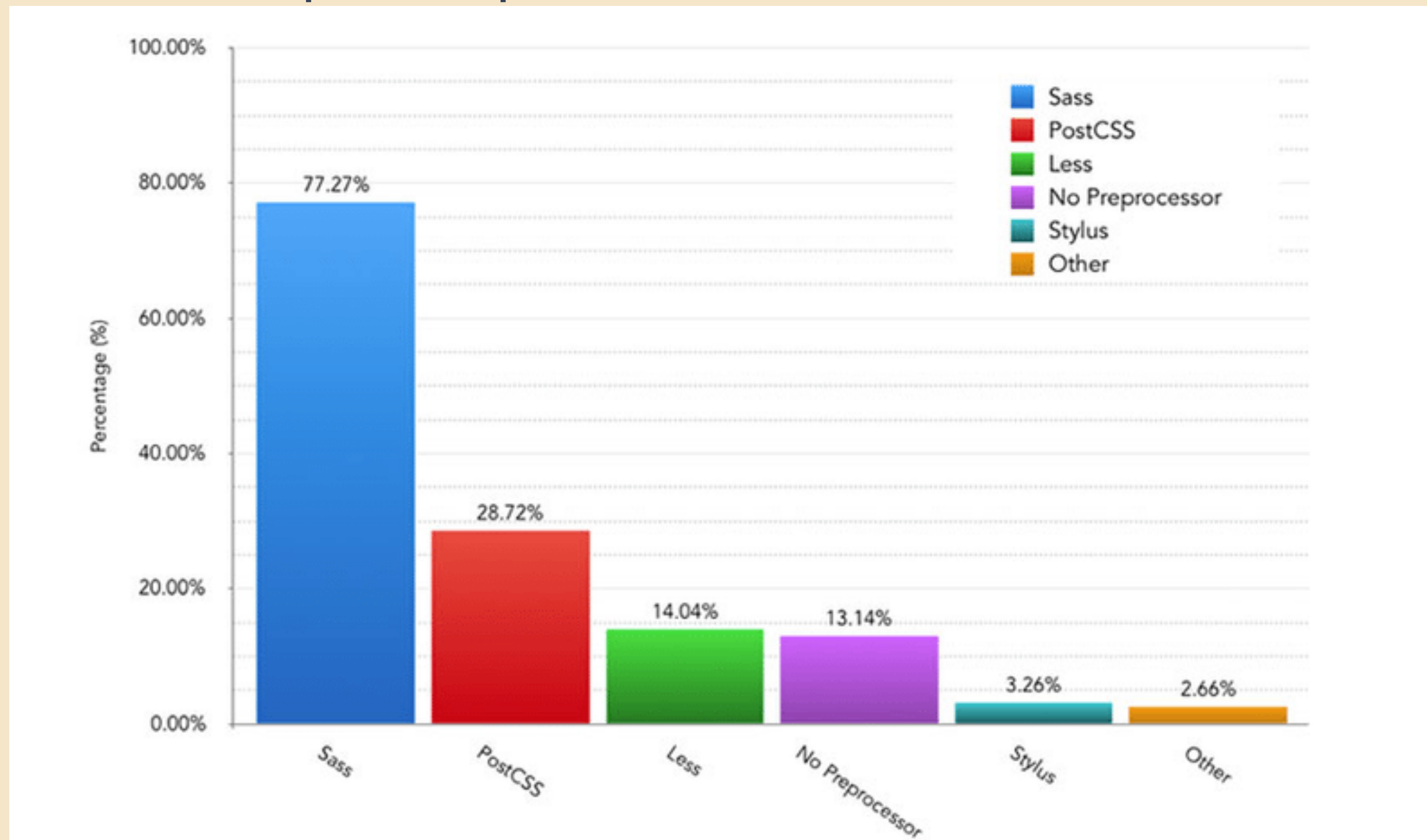
```
.button
  box-shadow: shadow(x: 2, y: 4)
```

ADVANTAGES

- Simple syntax: It has a very concise and simple syntax that is easy to read and maintain.
- Flexibility: Stylus is adaptable, it enables the use of plugins
- Performance: It's known for its good performance, this is because it's written in JavaScript and uses a more simple and direct syntax.
- Lightweight: Stylus has a small size and is less complex than other preprocessors, making it easier to use and set up.
- Stylus can use raw CSS code, this makes easy to convert a file of CSS to stylus

DISADVANTAGES

- Not so popular: Stylus is less popular which means there may be fewer resources and community available to help with specific issues.



DISADVANTAGES

- Longer learning curve and increased complexity: Although the syntax is simpler, it can take time to get used to the new features and concepts. You must have a good knowledge of the syntax and concepts in order to take full advantage of its potential.
- Longer compile time: When using the Stylus to write your CSS code, you'll need to use a compiler to convert your Stylus code to CSS before you can use it on your website. This can increase build time if your project is large.

YUGIOH BOARD

Variables

Stylus

```
primary-color = rgb(221, 177, 64)
secondary-color = rgb(220, 187, 105)
secondary-border-color = rgb(135, 104, 26)

regular-border = solid 1px
regular-width = 1vw
text-size = 0.8vw
```

Less

```
#colors() {
  primary: rgb(221, 177, 64);
  secondary: rgb(220, 187, 105);
  secondary-border: rgb(135, 104, 26);
}

@regular-border: solid 1px;
@regular-width: 1vw;
@text-size: 0.8vw;
```

YUGIOH BOARD

Selectors

```
.card
  card-flex()
  background-color: primary-color
  border: regular-border
  margin: 0.5 * regular-width
  padding: 0.5 * regular-width
  font-size: text-size
```

```
.logo
  font-weight: bold
  color: secondary-color
  &:hover
    color: secondary-hover-color
```

YUGIOH BOARD

Mixins and functions

```
out-card(row-start)
  display: inherit
  grid-row-start: row-start

grid-template-col(columns)
  grid-template-columns: repeat(columns, percentage(1 / columns))

grid-template-row(rows)
  grid-template-rows: repeat(rows, percentage(1 / rows))

grid-template(columns, rows)
  grid-template-col(columns)
  grid-template-row(rows)
```

Selectors

```
.deck
  display: inherit
  margin: default-margin
  grid-template-col(5)
```

```
.vertical-line
  display: inherit
  align-items: center
  grid-template(1, 6)
  gap: 3px
```

YUGIOH BOARD

Nesting

```
.cardTitle
  display: inherit
  justify-content: space-between
  align-items: center
  border: regular-border
  padding-inline: 2px

.cardTitleText
  display: -webkit-box
  -webkit-line-clamp: 1
  -webkit-box-orient: vertical
  overflow: hidden

.titleSymbol
  max-width: regular-width
```

```
@media (max-width: 400px)
  .vertical-line
    display: none
  .out-card-left
    display: none
  .out-card-right
    display: none
  .board-container
    grid-template-columns: main-board-only
    margin-block: 0
```