

CSS in JS

Avant de commencer..

Les slides sont disponibles :

<https://tzi.fr/slides/blend2017>

<https://tzi.fr/slides/blend2017.pdf>

CSS in JS

C'est quoi exactement ?

CSS in JS

Speaker Deck

Published on Nov 8, 2014

Let's build a button

```
/* button.js */  
  
var styles = {  
  container: {  
    background: '#f6f7f8 url(/images/button/background.png) repeat-x',  
    border: '1px solid #cdced0',  
    borderRadius: 2,  
    boxShadow: '0 1px 1px rgba(0, 0, 0, 0.05)',  
  },  
  depressed: {  
    backgroundColor: '#4e69a2',  
    borderColor: '#c6c7ca',  
    color: '#5890ff',  
  },  
};
```



share

CSS in Markup ?

Speaker Deck Published on Nov 8, 2014

Inline Styles!! 1!

```
/* button.js */  
  
var styles = {  
  container: {  
    background: '#f6f7f8 url(/images/button/background.png) repeat-x',  
    border: '1px solid #cdced0',  
    borderRadius: 2,  
    boxShadow: '0 1px 1px rgba(0, 0, 0, 0.05)',  
  },  
  depressed: {  
    backgroundColor: '#4e69a2',  
    borderColor: '#c6c7ca',  
    color: '#5890ff',  
  },  
};  
  
<div style={styles.container}>
```

◀ ▶ share

Real CSS in JS

```
const Container = styled.div`  
  margin: 0 auto;  
  width: 100%;  
  @media screen and (min-width: 360px) {  
    max-width: 400px;  
  }  
`;  
;
```

```
const App = () => (  
  <Container>  
    <Tweet data={data} />  
  </Container>  
);
```

Sass in JS

```
//SASS. IN. YOUR. REACT!!!!  
<button  
  className={PreStyle`  
    $btnBgc: #0071ba;  
    background-color: $btnBgc;  
    border-radius: 3px;  
    &:hover {  
      background-color: darken($btnBgc, 30%);  
    }  
  `}  
>  
  Click me!  
</button>
```

Qui suis-je ?

Thomas Zilliox.

Intégrateur, Développeur, Formateur, Auteur.

Je suis un expert CSS indépendant.

Adoption de CSS in JS



CSS-Tricks

@Real_CSS_Tricks

Abonné



So. many. things. to avoid writing CSS.

[github.com/jxnblk/react-c...](https://github.com/jxnblk/react-css)

github.com/Khan/aphrodite

github.com/jsstyles/jss

82 Retweets 266 J'aime



24

82

266



L'ouverture d'esprit

CSS in JS is not welcome here

Adoption des CSS atomiques



Lea Verou ✓
@LeaVerou

Abonné

Just saw **@AtomicCSS**
Wow.

Syntax so bad I looked for "Is this a joke?" in the FAQ. Looks like a styling language designed by assembly coders!

🌐 À l'origine en anglais

21:50 - 11 janv. 2016

50 Retweets 94 J'aime



💬 30

↻ 50

♥ 94



Adoption de BEM



Max Lynch ✓

@maxlynch

Suivre

I'm sorry, but BEM CSS is just pure awfulness. Let's take something easy and make it 100x more complicated, ugly, and unnecessary

🌐 À l'origine en anglais

18:03 - 20 juil. 2015

2 Retweets 7 J'aime



Adoption de Sass



cedmax

@cedmax

Suivre

I'm getting convinced that css preprocessors might be harmful for large projects. They allow you not to think about document architecture.

À l'origine en anglais

10:53 - 25 mai 2013

3 Retweets 1 J'aime



1



3



1



Adoption d'un seul outil ?



Sara Soueidan 

@SaraSoueidan

Abonné



Never used any frameworks, never will.
Writing CSS from scratch is one of the best
pleasures of building front-ends in my
opinion. ✨

🌐 À l'origine en anglais

19:25 - 17 août 2017

206 Retweets 1 036 J'aime



103



206



1,0 k



Le CSS-in-JS est réel !

Le CSS-in-JS est réel !

aphrodite, babel-plugin-css-in-js, babel-plugin-pre-style, bloody-react-styled, classy, csjs, css-constructor, css-light, css-loader, css-ns, cssobj, cssx-loader, emotion, es-css-modules, glamor, glamorous, hyperstyles, i-css, j2c, jsxstyle, linaria, pre-style, radium, react-css-builder, react-css-components, react-css-modules, react-cssom, react-cxs, react-fela, react-free-style, react-inline-css, react-inline-style, react-inline, react-jss, react-look, react-native-web, react-statics-styles, react-styl, react-style, react-styleable, react-stylematic, react-theme, react-vstyle, reactcss, restyles, scope-styles, smart-css, stile, react-media-queries, stilr, style-it, styled-components, styled-jsx, styletron-react, styling, superstyle, tpestyle, uranium

Les objectifs du CSS in JS

1. L'isolation des styles

OOCSS, SMACSS et BEM avec les sélecteurs.

CSS in JS directement avec les noeuds HTML.

2. Le nommage des classes

```
import { css } from 'glamor'

const title = css({
  fontSize: '1.8em',
  fontFamily: 'Comic Sans MS',
  color: 'blue'
})

console.log(title)

// → 'css-1pyvz'
```

3. L'optimisation

- Pas de code mort
- Styles fusionnés
- Calcul du chemin critique

4. L'écosystème JavaScript

- JavaScript
- packages (npm)
- transpilers (babel)
- builders (webpack)
- linters (eslint, prettier)

4. L'écosystème JavaScript

```
@function to-number($value) {
  @if type-of($value) == 'number' {
    @return $value;
  } @else if type-of($value) != 'string' {
    $_: im-log('Value for `to-number` should be a number or a string.');
```

```
  }

  $first-character: str-slice($value, 1, 1);
  $result: 0;
  $digits: 0;
  $minus: ($first-character == '-');
  $numbers: ('0': 0, '1': 1, '2': 2, '3': 3, '4': 4, '5': 5, '6': 6, '7': 7, '8': 8, '9': 9);

  // Remove +/- sign if present at first character
  @if ($first-character == '+' or $first-character == '-') {
    $value: str-slice($value, 2);
  }

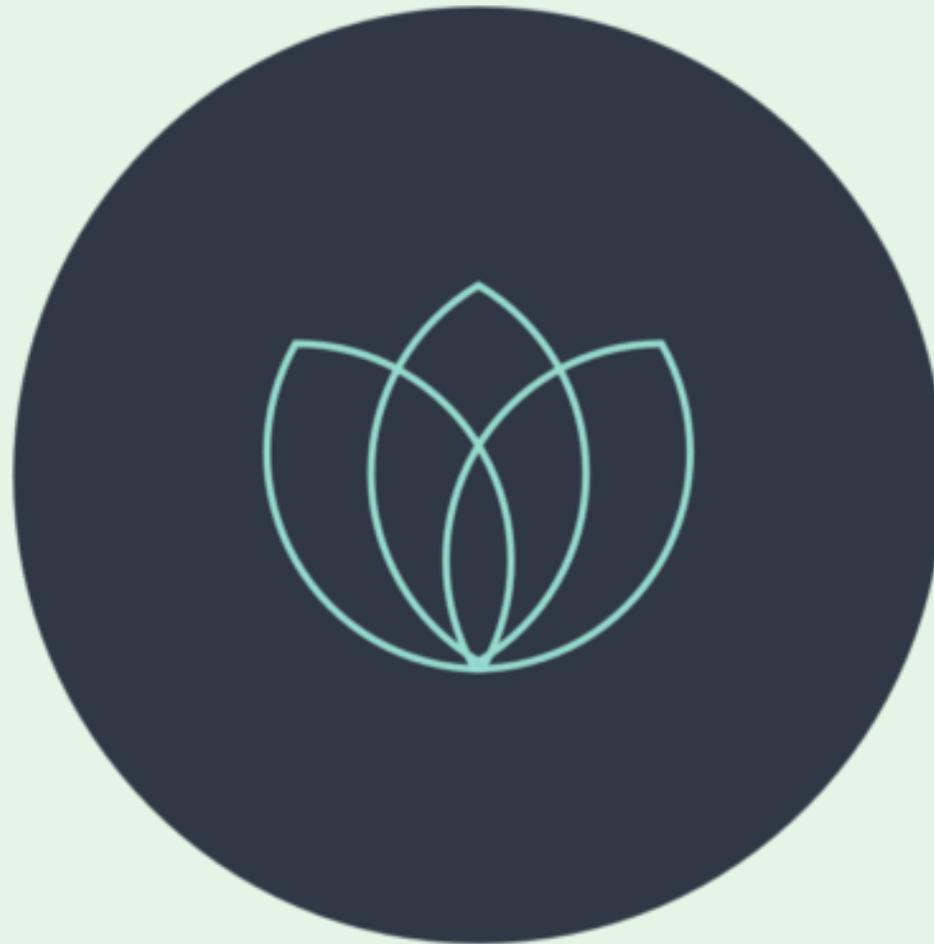
  @for $i from 1 through str-length($value) {
    $character: str-slice($value, $i, $i);

    @if not (index(map-keys($numbers), $character) or $character == '.') {
      @return to-length(if($minus, -$result, $result), str-slice($value, $i))
    }

    @if $character == '.' {
      $digits: 1;
    } @else if $digits == 0 {
      $result: $result * 10 + map-get($numbers, $character);
    } @else {
      $digits: $digits * 10;
      $result: $result + map-get($numbers, $character) / $digits;
    }
  }

  @return if($minus, -$result, $result);
}
```

5. Aller plus loin que le web



Le CSS in JS aujourd'hui

Le CSS in JS aujourd'hui

- Pas de solution leader
- Des solutions liées à React
- Perte de l'écosystème Sass
- Perte de l'IDE

Conclusion

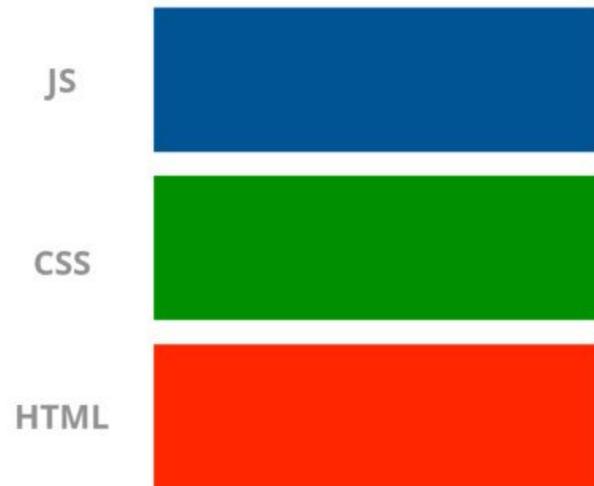
Conclusion

Le CSS in JS est un doux rêve :

- Je code en composant : CSS lié au HTML
- Je livre un site optimisé : CSS séparé du HTML

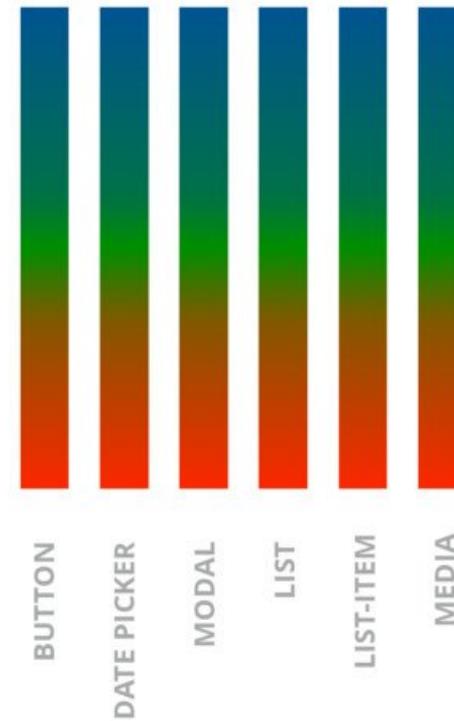
Conclusion

Separation of Concerns



Separation of Concerns

(only, from a different point of view)



Conclusion

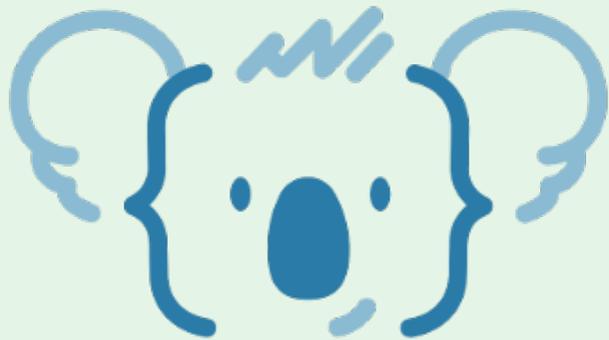
Le CSS in JS va rapprocher les développeurs des intégrateurs en fusionnant :

- Leur langages
- Leur outils
- Leur fichiers
- ...

Conclusion

Mais ce n'est pas pour tout de suite :)

Merci !



Des questions ?

@iamtzi

tzi.fr/slides/kiwi2017

tzi.fr/slides/kiwi2017.pdf

