Hi
Netherlands 👋

css-in-js

With styled-components

you are the {css} to my <html>

you are styled-components
to my react

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Styled-components are dope

BUT

…before we go there…

Do I need **css-in-js**
to have a successful product?

HELL **NO!**

There is plenty of options to handle CSS

- good old CSS
- CSS processors as postCSS, Sass, Less
- using methodologies like BEM
- CSS Modules

then why even bother?

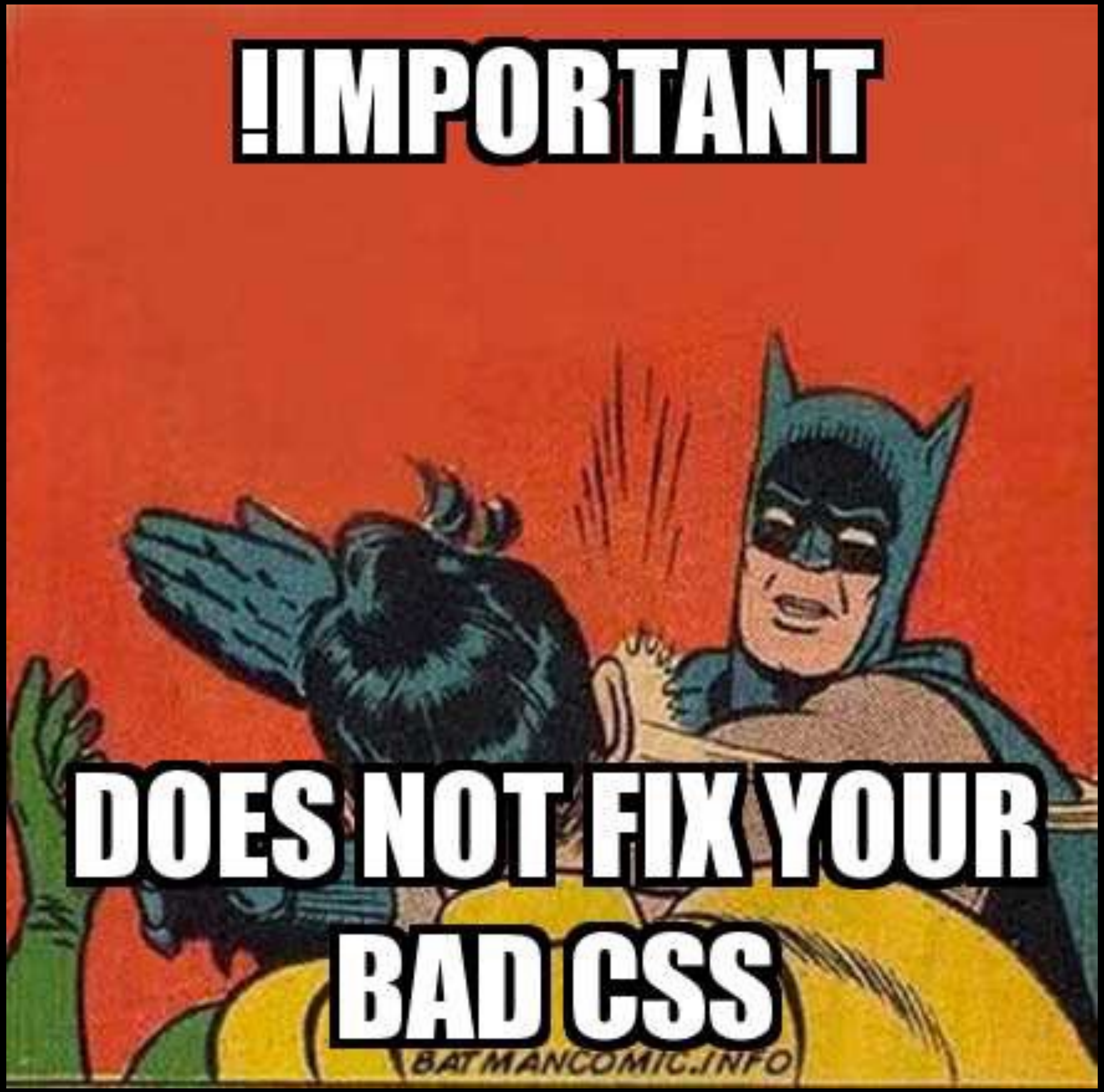
Because of the advantages!

- Components
- Power and simplicity of CSS
- Power of Javascript
- No need to worry about overwriting
- SSR included
- Theming made easy!

DISCLAIMER!

YOU STILL HAVE TO KNOW CSS

…no more !important
in your codebase


!IMPORTANT
DOES NOT FIX YOUR BAD CSS
BATMANCOMIC.INFO

there are few css related concerns

global vs local

```css
/* Component needs to be pink */
* {
  color: pink;
  background: pink;
}
```

by default in CSS everything is global

even if you wanted to color only one thing

```
import React from 'react';
import styled from 'styled-components';

export default styled.h1`
  font-size: 1.5em;
`
```

Because javascript

in styled-components everything is local by default

```
import Title from './components/Title'

class App extends Component {
  render() {
    return (
      <Wrapper>
          <Title>Welcome to Styled React</Title>
       </Wrapper>
    );
  }
}
```

in styled-components everything is local by default

```
<style data-styled-components="">
  /* sc-component-id: sc-bdVaJa */
  .dAIgSr{font-size:1.5em;}
  /* sc-component-id: sc-bwzfXH */
  .gJIwTT{text-align:center;}
</style>
```

generated css goes to the end of html head what if I want global styles

```
injectGlobal`
  body {
    margin: 0;
    padding: 0;
    font-family: sans-serif;
  }
`
```

still possible

reusing css code

what drives development?

I want a cat in a sweater

Katie Bradley

by default
with CSS

```
.underlined {
  text-decoration: underline;
}

.big-sized {
  font-size: 2em;
}


…
<p className="big-sized underlined”>
 Hello, I am underlined
</p>
…
```

with the power of classes

what is the specificity problem?

```css
.underlined {
  text-decoration: underline;
}

.big-sized {
  font-size: 2em;
}


p.underlined + p {
  text-decoration: line-through;
}
```

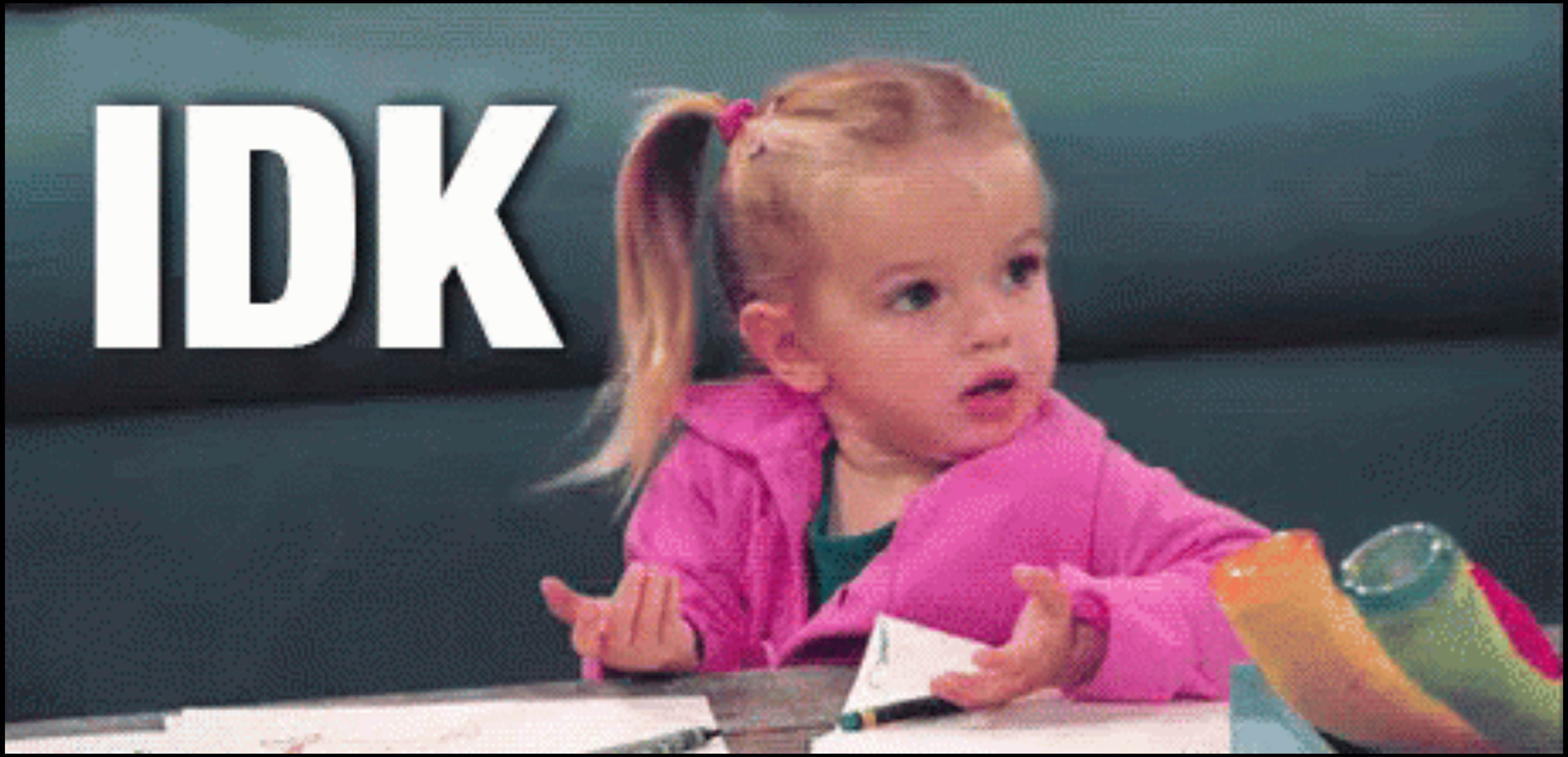
```
<p className="big-sized underlined">
  Hello, I am underlined
</p>
```

Hello, I am underlined

```
<p className="big-sized underlined">
  Hello, I am underlined
</p>
<p className="big-sized underlined">
  Should I be underlined too?
</p>
```

Hello, I am underlined

~~Should I be underlined too?~~


IDK

with styled-components
we reuse css as we reuse components

```
import Paragraph from './components/Paragraph'
const Underlined = styled(Paragraph)`
  text-decoration: underline;
`
```

```
<Underlined>
   Hello, I am underlined
</Underlined>
```

```
import Paragraph from ,./components/Paragraph'

const DivHere = Paragraph.withComponent('div')



<DivHere>
   I have Paragraph styles!
</DivHere>
```

reusing styles with different element

What about weird selectors

and this whole specificity?

shit still can happen

but you are more aware of that

theming app

keeping some style variables

in styled-components…

power of CSS & JS unleashed by React

```
class App extends Component {
  render() {
    return (
      <ThemeProvider theme={themes.buffy}>
        <Cemetery>
          <DeathsList />
        </Cemetery>
      </ThemeProvider>
    );
  }
}
```

ThemeProvider based on the context API

```
{
    “buffy": {
        "baseColor": "#ffffff",
        "mainColor": "#544b8d",
        "secondaryColor": "#b7b4db",
        "palleteExtraColor": "#636aa3",
        "borderColor": "#636aa3"
    },
    …
}
```

…applies theme object

```
export default styled.header`
    padding: 20px;
    color: ${props => props.theme.baseColor};
    background: ${props => props.theme.mainColor};
    display: flex;
    align-items: center;
`
```

which is accessible in every styled component

with this powerful tool
we can think about accessibility

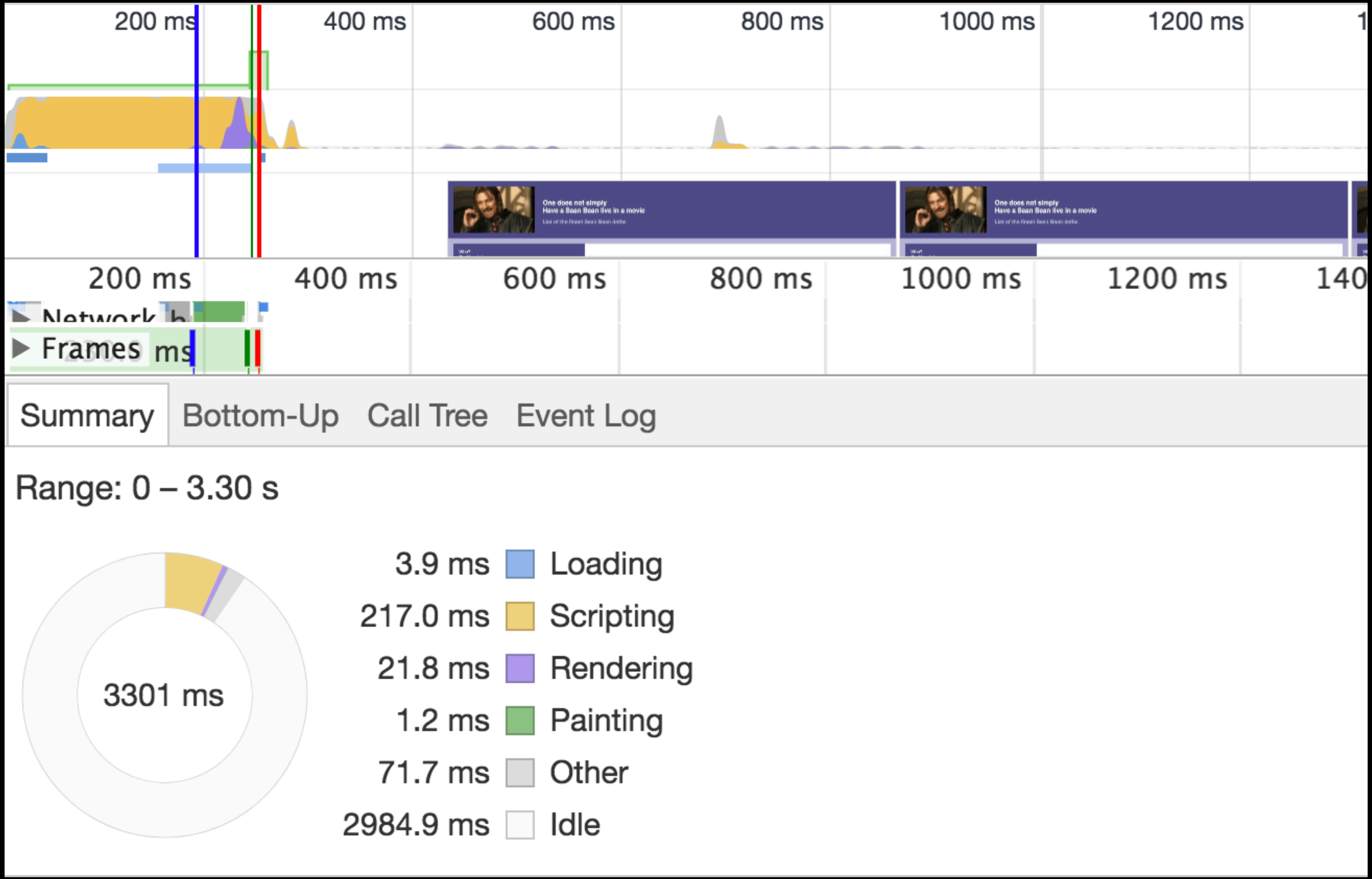
SSR

why we should care?

User experience

performance

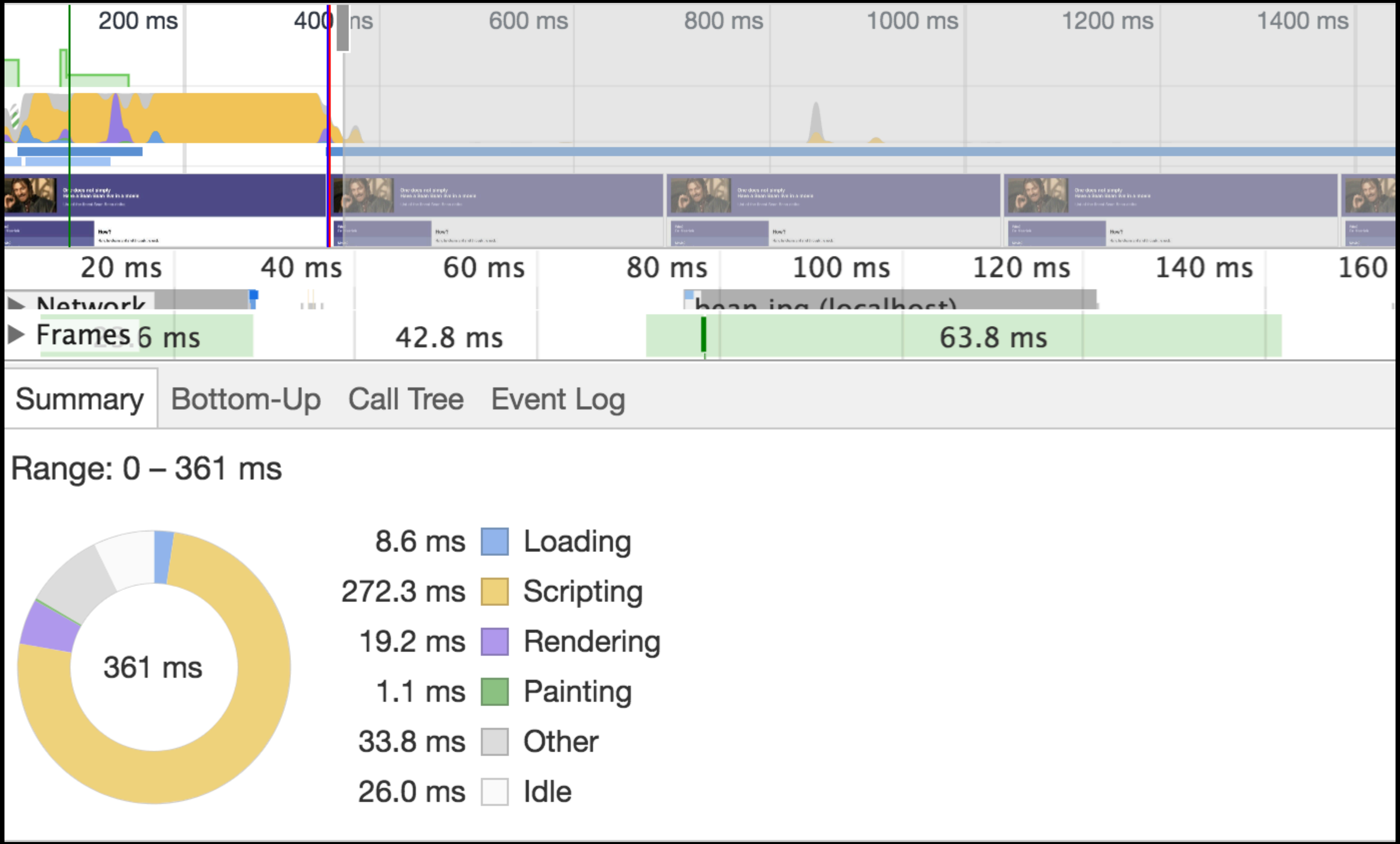
SEO



Range: 0 – 3.30 s

3301 ms

3.9 ms	🟦	Loading
217.0 ms	🟨	Scripting
21.8 ms	🟪	Rendering
1.2 ms	🟩	Painting
71.7 ms	⬜	Other
2984.9 ms	⬜	Idle



Range: 0 – 361 ms

8.6 ms	🟦	Loading
272.3 ms	🟨	Scripting
19.2 ms	🟪	Rendering
1.1 ms	🟩	Painting
33.8 ms	⬜	Other
26.0 ms	⬜	Idle

how it was done?

```
import { ServerStyleSheet } from 'styled-components'



static getInitialProps ({ renderPage }) {
    const sheet = new ServerStyleSheet()
    const page = renderPage(
     App => props => sheet.collectStyles(<App
     {...props} />))
    const styleTags = sheet.getStyleElement()
    return { ...page, styleTags }
  }
```

```
render () {
    return (
      <html>
        <Head>
          <title>My page</title>
          {this.props.styleTags}
        </Head>
        <body>
          <Main />
          <NextScript />
        </body>
      </html>
    )
  }
```

TAKE AWAYS

- it’s still good old CSS
- helps you organize your code in more modular way
- use theming and JS to improve ACCESSIBILITY
- have fun

every tool is a good tool

thanks!

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