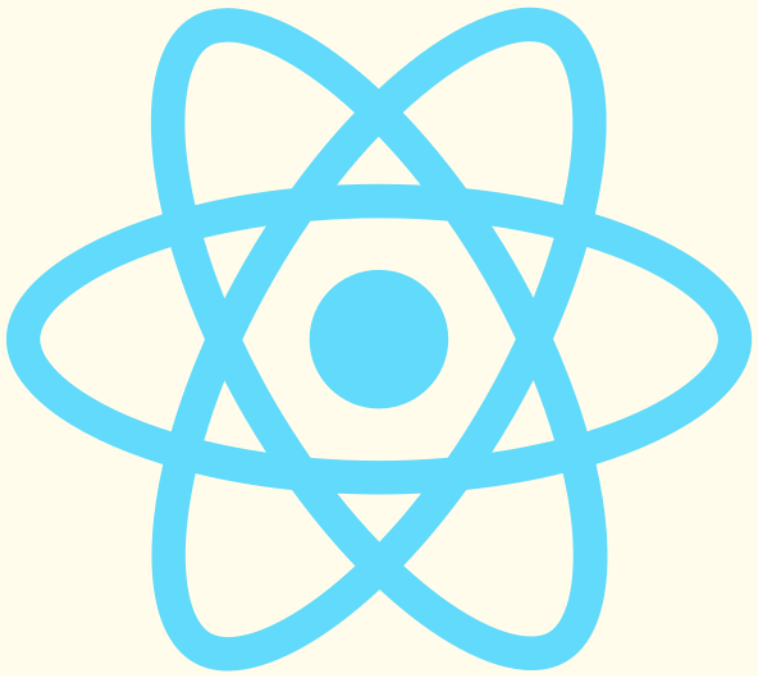


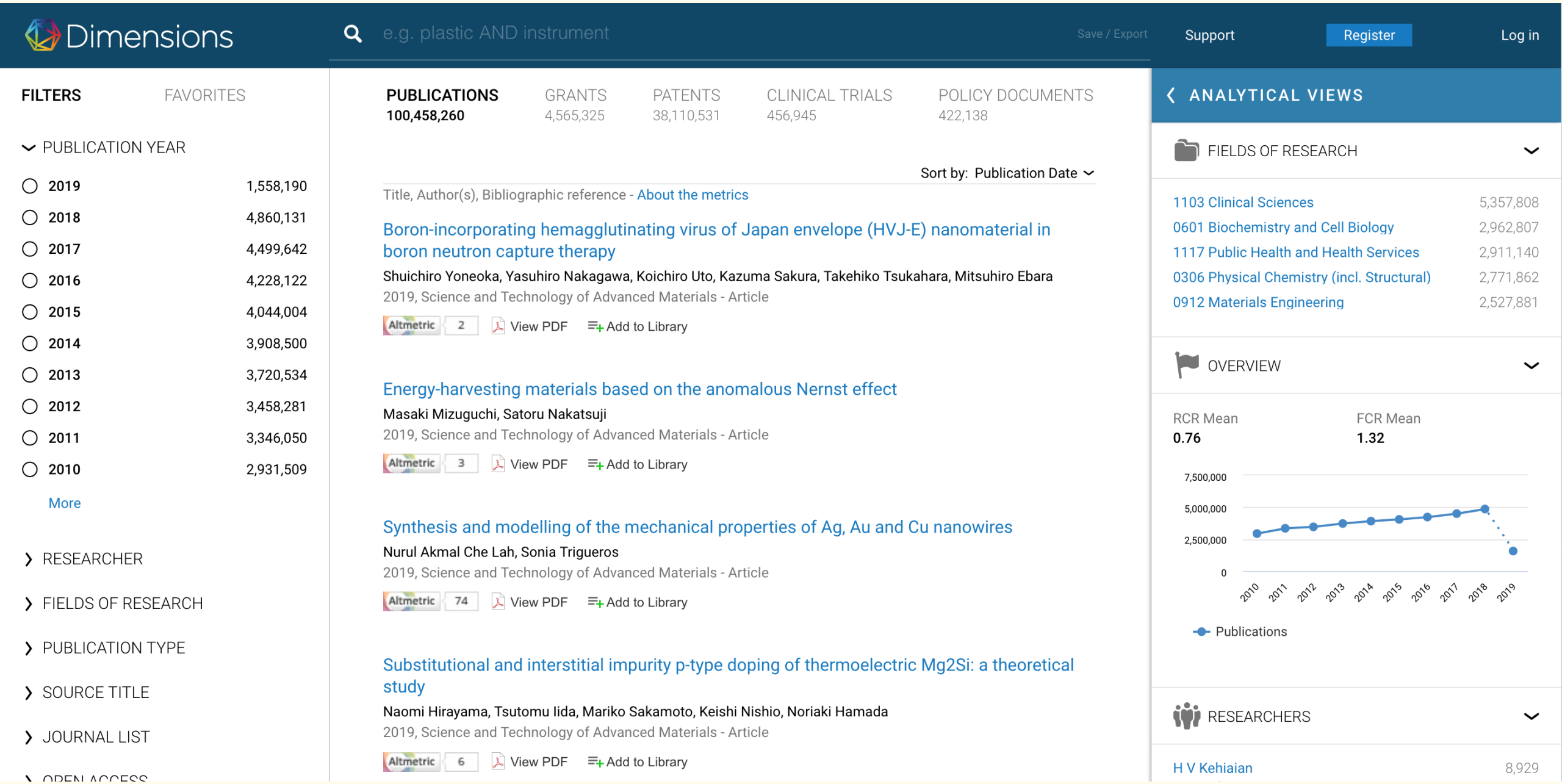
React

Ein Erfahrungsbericht

⚠ Disclaimer ⚠

- Kein React vs. X vs. Y Hate
- Ich bin kein React Experte™
- Vieles kann man sicherlich schöner lösen

Kontext: app.dimensions.ai



Carlo.js

Dimensions

Backend-Stack

- Python
- Pyramid Framework
- Jinja Templates

Dimensions

Frontend-Stack

- Sass
- Natives JS Framework
- React

Dimensions

v1 (bis Januar 2018)

- Ajax Calls (async HTML Einbettung)
- Bootstrap
- Exzessive jQuery-Suppe

Dimensions

v2 (ab Januar 2018)

- Ajax JSON Calls
- Natives JS
- React

React

Am Anfang…

JSX - XML in JS

Example [1]:

```
<div id="app">
  <p>Foo</p>
  <p>Bar</p>
</div>
```

---

1. https://lernen.react-js.dev/die-grundlagen/jsx-eine-einfuehrung ↩

JSX - XML in JS

Example [1]:

```
React.createElement(
  'div',
  { id: 'app' },
  React.createElement('p', null, 'Foo'),
  React.createElement('p', null, 'Bar')
);
```

---

1. https://lernen.react-js.dev/die-grundlagen/jsx-eine-einfuehrung ↩

Komponenten…

… als Funktion:

```
function ProfilePage(props) {
  const handleClick = () => {
    alert('Followed ' + props.user);
  };

  return (
    <button onClick={handleClick}>Follow</button>
  );
}
```

Demo

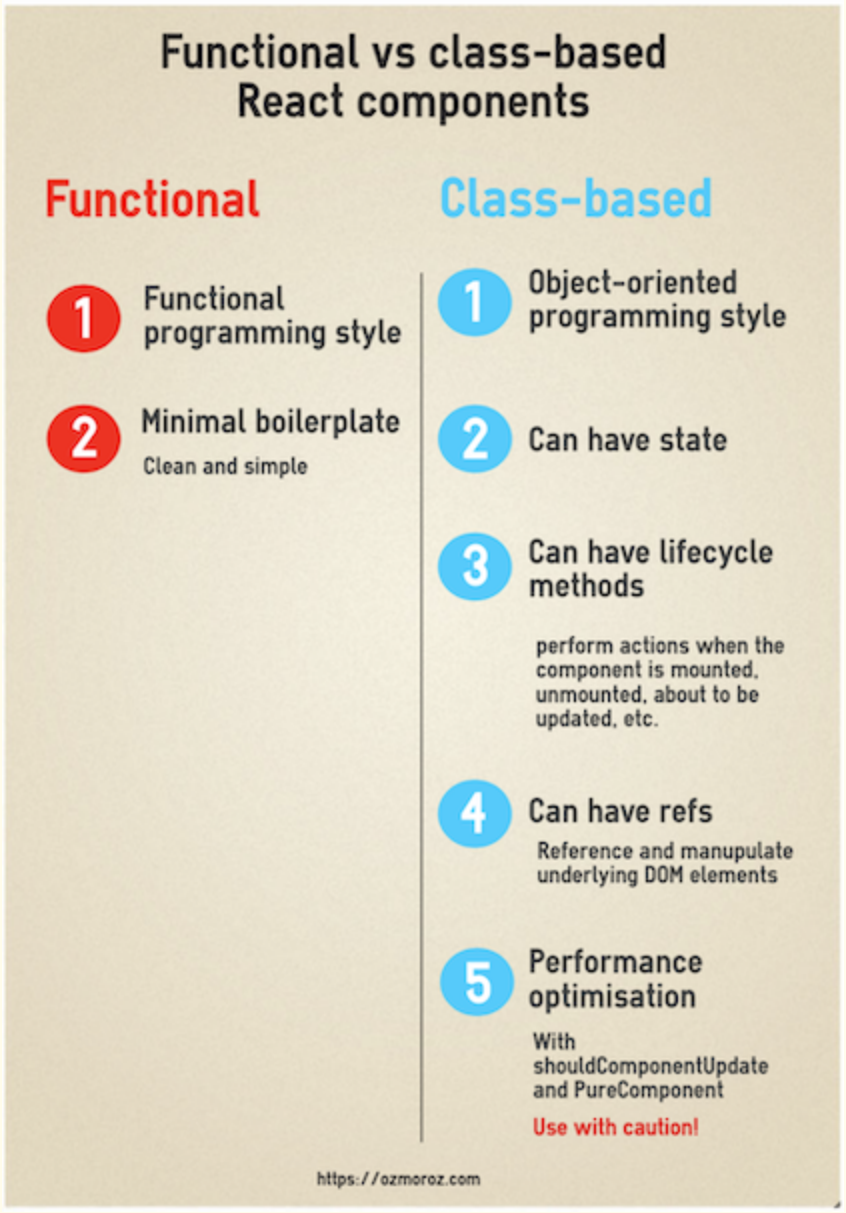
… als Klasse:

```
class ProfilePage extends React.Component {
  handleClick = () => {
    alert('Followed ' + props.user);
  };

  render() {
    return <button onClick={this.handleClick}>Follow</button>;
  }
}
```

Demo

Klasse vs. Funktion (React < 16.8!)



Local state management

- Lesen: `this.state`
- Schreiben: `this.setState()`

Documentation

"Pure" Components

Rendering, nur wenn es sein muss!

https://codesandbox.io/s/n55r8v94n0

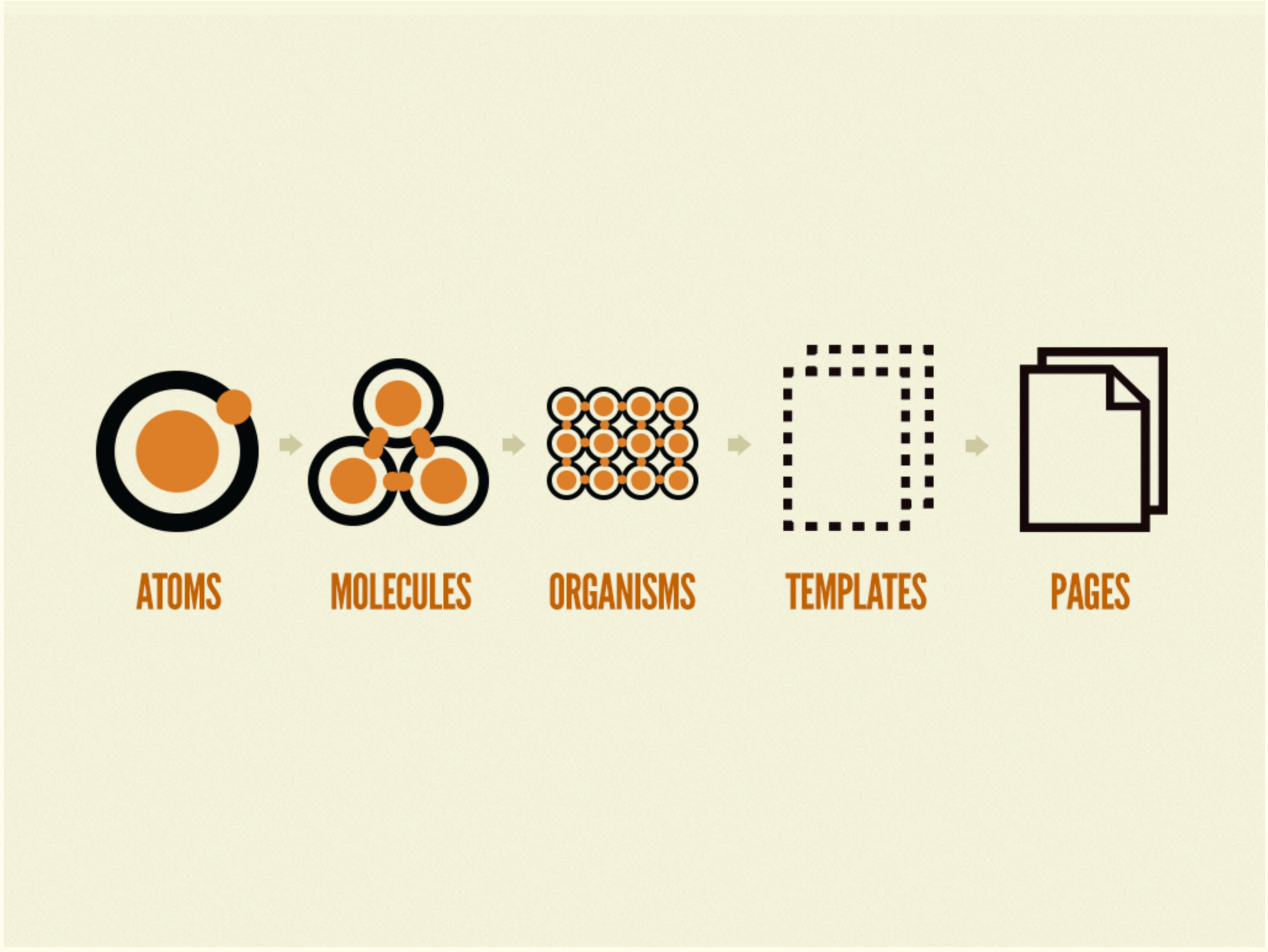
React Komponenten

- Properties sind read-only, immutable
- stateful vs. stateless
- uncontrolled vs. controlled
- Wasserfall vs. Inverse Data Flow

Thinking in React

https://reactjs.org/docs/thinking-in-react.html

Wie strukturieren?

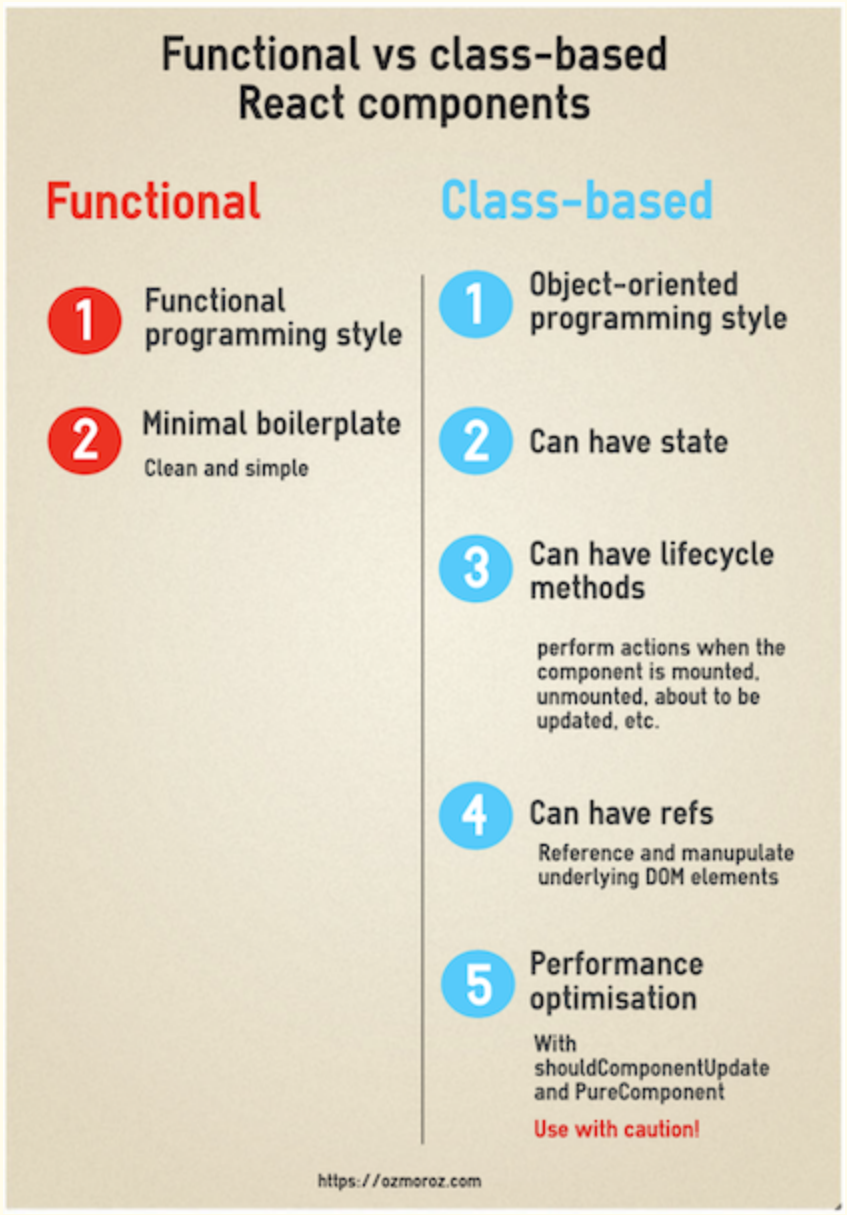


React Hooks

Hooks Documentation

Klasse vs. Funktion (mit Hooks!)

Was hat sich geändert?



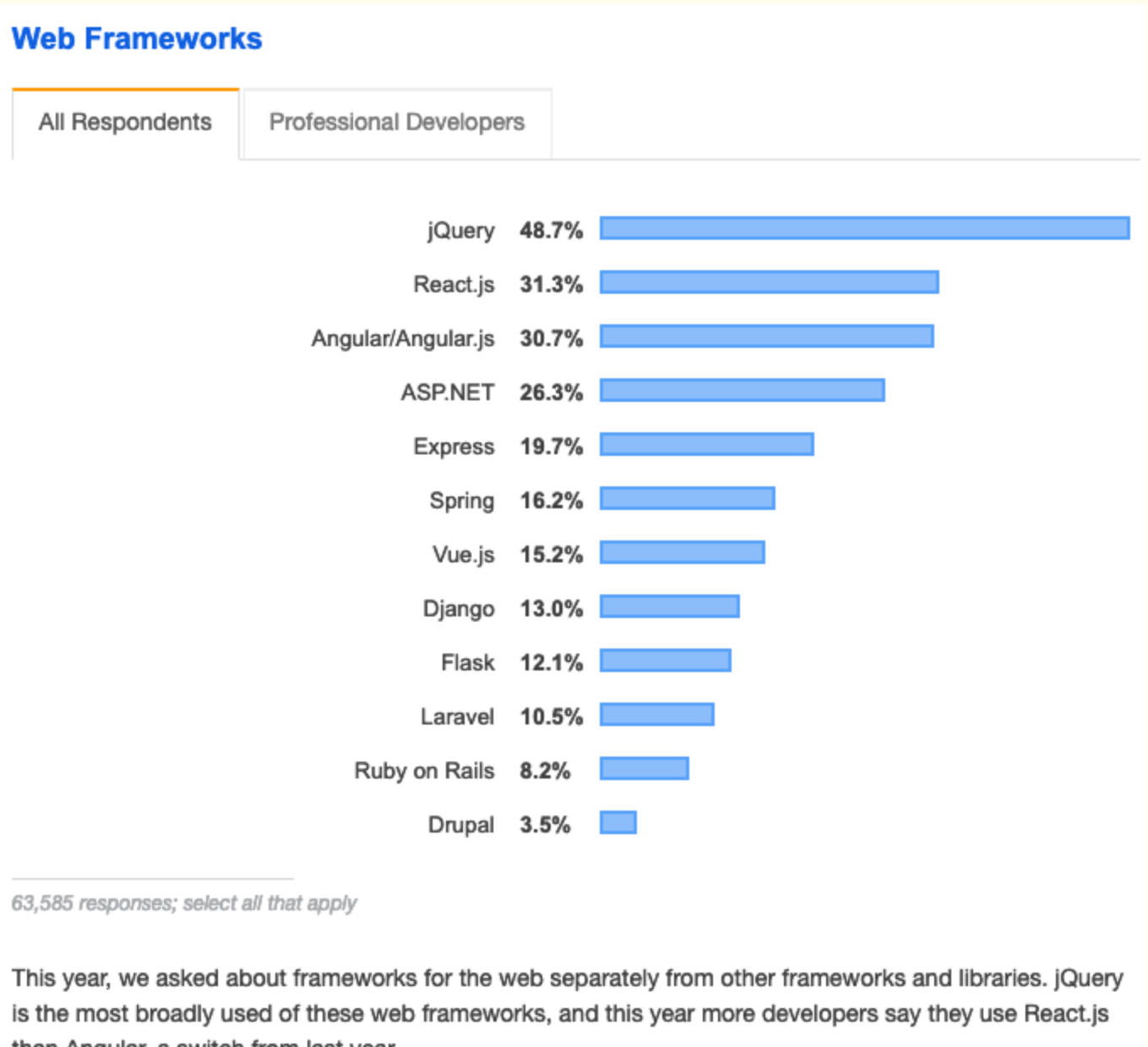
Zusammenfassung

React ist eine Library zur Implementierung von UI Komponenten.

React und Vue.js

Meist geliebt und gewünscht

Große Community



This year, we asked about frameworks for the web separately from other frameworks and libraries. jQuery is the most broadly used of these web frameworks, and this year more developers say they use React.js than Angular, a switch from last year.

Tipp 1

Nutzt Storybook o.Ä. um mit dem Design-Team an der Code-Basis zu arbeiten

Tipp 2

Extended nur von `React.Component` oder `React.PureComponent`, nicht von eigenen Komponenten.

Tipp 3

Nutzt PropTypes für Typencheck (Linting).

Tipp 4

Definiert eine konsistente Ordnerstruktur.

Tipp 5

"Make each component do one thing well." (UNIX Philosophie)

Tipp 6

Schreibt Tests für eure Komponenten.

Tipp 7

Lernt JavaScript. :D

Artikel

- Writing Resilient Components
- How are function components different from classes

Tools

- DevTools
- Codesandbox.io
- Create React App Boilerplate
- Lifecycle Diagram

Tools

- Storybook
- PropTypes
- Styled Components

Bücher

- React lernen

Personen

- Dan Abramov (React Core Team)
- Kent C. Dodds (Paypal)
- Twitter-Thread

Podcasts

- Reactive
- React Podcast