

8 - Default Props and Prop Types and Map

In out app: [InfoContainer](#)

```
// Import Mock data with info as an object
import { articles } from '../../mock';
// Class component
class InfoContainer extends Component {
  //=== BEGINS Life cycle hooks
  constructor() {
    super();
    this.state = {
      currentArticle: articles[0]
    }

    render() {
      return <Info article={this.state.currentArticle}/>;
    }
  }
}
```

Default Props

Default props an attribute, part of a react component that, like its name suggests, lets you define what will be the value of the props if the aren't defined, or if they are null. It can be useful to avoid errors like attribute of undefined or just to set a default.

Prop Types

Libraries: import PropTypes from '**prop-types**'; Prop Types also is a library lets you set the type of the props of a component. It will only have effect on dev environment, to avoid type errors or invalid conversions, and like a documentation of what kind of props should a component have.

Info Component

[InfoDisplay](#)

```
const Info = ({ article }) => {
  return (
    <section className="box--center">
      <Card article={article} />
    </section>
  );
}

Info.defaultProps = {
  article: {
    title: '404 not found',
  },
}
```

```

    img: 'https://i.gifer.com/7iJU.gif',
    list: [],
    src: '...'
  }
}

Info.propTypes = {
  article: PropTypes.shape({
    title: PropTypes.string,
    img: PropTypes.string,
    list: PropTypes.array,
    src: PropTypes.string,
  }).isRequired,
}

```

Note: We will divide the display of the card in two parts for better readability. [Card Component](#)

```

const Card = props => {
  const { title, img, list, src } = props.article;
  return (
    <article className="card">
      <CardFigure title={title} img={img} src={src} />
      <CardContent title={title} list={list} />
    </article>
  );
}

```

Card Figure

```

const CardFigure = props => {
  return (
    <figure className="card__figure">
      <img className="card__figure__img" alt={props.title} src={props.img}></img>
    </figure>
  );
}

```

Map

Map is high order function, part of vanilla javascript's array. It takes a function (or callback), applies it to each element of the array and creates a new array with the results. In React it is often used to create iterations in the DOM. Note: each created DOM element should have an unique key.

Card Content

```
const CardContent = ({title, list, src}) => {
  return (
    <div className="card__content">
      <h1>{title}</h1>
      <ul>
        { // Map to iterate our list array
          list.map( (unit, index) => (<li key={index}> { unit } </li>))
        }
      </ul>
      <a href={src}>Based on: {src}</a>
    </div>
  );
}
```

Add it to App.js inside our switch. :id in the path attribute is an attribute, we will use it to change cards

```
<Route exact path="/card/:id" component={Info} />
```

Read More:

- [JS Map](#)

<< return