



React JS & React Native Bonn Meetup

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Alexander Thurn

- CEO Frontend Solutions GmbH
- Developer since 1996
- Meetup organizer
- React.JS fan

Christoph Jerolimov

- Freelancer
- React Native fan

FRONTEND SOLUTIONS

- Serviceprovider for Frontend Development
 - Frontends
 - Backends for frontends :-)
 - Development kit UFP
- Technologies
 - React.JS
 - Java
 - Docker
 - ...

Meetup plan

Every 6 weeks

- React News
- 1-2 lectures
- Various speakers
- Various locations (Bonn)

=> Contact me if you want to support! at@froso.de

Topics for today

- React.JS + Native News
- React.JS Hello World
- Brainstorming for upcoming meetups

React.JS News



KLOSTER STEINFELD News

Ausgabe 2 · November 2017



React.JS 16.0 + 16.2

- Changes to React 15.X
- New features
- Improvements
- <https://reactjs.org/blog>

React.JS 16.0

26.09.2017

- Arrays + Strings
- Error Boundaries
- Portals
- Custom Dom Attributes

Arrays

React 15.X

```
render() {  
  return (  
    <li>First Item</li>  
    <li>Second Item</li>  
    <li>Third Item</li>  
  )  
}
```



Error

Arrays

React 15.X

```
render() {  
  return (  
    <div>  
      <li>First Item</li>  
      <li>Second Item</li>  
      <li>Third Item</li>  
    </div>  
  )  
}
```

Arrays

React 16.0

```
render() {  
  return [  
    <li key="A">First item</li>,  
    <li key="B">Second item</li>,  
    <li key="C">Third item</li>  
  ]  
}
```

Strings

React 15.X

```
render() {  
    return 'Look, no spans!'  
}
```



Error

Strings

React 15.X

```
render() {  
    return <span>Look, no spans!</span>  
}
```

Strings

React 16.0

```
render() {  
    return 'Look, no spans!'  
}
```

Error Boundaries

React 15.X

```
render() {  
    throw new Error('haha')  
    return <span>Look, no spans!</span>  
}
```



Crashes everything

Error Boundaries

React 15.X

```
render() {  
  try {  
    throw new Error('haha')  
  } catch(err) {  
    console.error(err)  
  }  
  
  return <span>Look, no spans!</span>  
}
```

Error Boundaries

React 16.0

```
componentDidCatch(error, info) {  
    console.error(error, info)  
}
```

Error Boundaries

React 16.0

```
<ErrorBoundary>  
  <MyWidget>  
    <MyInnerWidget />  
  </MyWidget>  
</ErrorBoundary>
```

Portals

```
<div style={{overflow: hidden}}>  
  <MyComponent style={{width: '200px'}} />  
</div>
```

Portals

```
render() {  
  return ReactDOM.createPortal(  
    this.props.children,  
    domNode  
  )  
}
```

Portals

```
render() {  
  return ReactDOM.createPortal(  
    <div>Hello I am outside</div>,  
    document.body  
  )  
}
```

Custom Dom Attributes

Passthrough in 16.0

```
// Your code:  
<div mycustomattribute="something" />
```

```
// React 15.X output:  
<div />
```

```
// React 16.0 output:  
<div mycustomattribute="something" />
```

16.0 Improvements

- Server-side rendering
 - 3x faster than React 15.X
- Reduced file size (compared to 15.X)
 - 109 kb vs. 161.8 kb
 - ca. 30%

React.JS 16.2

28.11.2017

Feature Fragments

Feature Fragments

React 16.0

```
render() {  
  return [  
    "Some text.",  
    <h2 key="heading-1">A heading</h2>,  
    "More text.",  
    <h2 key="heading-2">Another heading</h2>,  
    "Even more text."  
  ]  
}
```

Feature Fragments

React 16.2

```
render() {  
  return (  
    <React.Fragment>  
      Some text.  
      <h2 key="heading-1">A heading</h2>  
      More text.  
      <h2 key="heading-2">Another heading</h2>  
      Even more text.  
    </React.Fragment>  
  )  
}
```

Feature Fragments

React 16.2

```
render() {  
  return (  
    <>  
      Some text.  
      <h2 key="heading-1">A heading</h2>  
      More text.  
      <h2 key="heading-2">Another heading</h2>  
      Even more text.  
    </>  
  )  
}
```

Feature Fragments

React 16.2

```
render() {  
  return (  
    <dl>  
      {props.items.map(item => (  
        <Fragment key={item.id}>  
          <dt>{item.term}</dt>  
          <dd>{item.description}</dd>  
        </Fragment>  
      ))}  
    </dl>  
  )  
}
```

Thank you for your attention

By [@Alexander Thurn](#)

Slides [Github](#)