

# React Component Approaches



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# Agenda



**React component creation approaches**

**Container vs Presentational Components**



# Four Ways to Create React Components



# Ways to Create Components

- **createClass**
- **ES class**
- **Function**
- **Arrow function**



# createClass Component

```
const HelloWorld = React.createClass({  
  render() {  
    return <h1>Hello World</h1>;  
  },  
});
```



# JS Class Component

```
class HelloWorld extends React.Component {  
  constructor(props) {  
    super(props);  
  }  
  
  render() {  
    return <h1>Hello World</h1>;  
  }  
}
```



# Function Component

```
function HelloWorld(props) {  
  return <h1>Hello World</h1>;  
}
```



# Arrow Function

```
const HelloWorld = (props) => <h1>Hello World</h1>;
```



# Function Component Benefits

Easier to understand

Avoid `this` keyword

Less transpiled code

High signal-to-noise ratio

Enhanced code completion

Easy to test

Performance

Classes may be removed in future



## PRESETS

- es2015
- es2015-loose
- es2016
- es2017
- stage-0
- stage-1
- stage-2
- stage-3
- react

## ENV PRESET 1.6.2

- Enabled

## BROWSERS

> 2%, ie 11, safari > 9

## ELECTRON

1.8



## NODE

8.9



## BUILT-INS



## SPEC



## LOOSE



## &gt; PLUGINS

v6.26.0

```
1 import React, { Component } from "react";
2
3 class Hi extends Component {
4   render() {
5     return (
6       <h1>hi</h1>
7     );
8   }
9 }
10
11 function HiFunc() {
12   return <h1>hi</h1>;
13 }
```

## Class

```
16
17 var Hi = function (_Component) {
18   _inherits(Hi, _Component);
19
20   function Hi() {
21     _classCallCheck(this, Hi);
22
23     return _possibleConstructorReturn(this,
24       Hi.__proto__ ||
25       Object.getPrototypeOf(Hi)).apply(this, arguments));
26   }
27
28   _createClass(Hi, [
29     {
30       key: "render",
31       value: function render() {
32         return _react2.default.createElement(
33           "h1",
34           null,
35           "hi"
36         );
37       }
38     }]);
39
40   return Hi;
41 }(_react.Component);
42
43 function HiFunc() {
44   return _react2.default.createElement(
45     "h1",
46     null,
47     "hi"
48   );
49 }
```

## Function

# When Should I Use Each? Pre 16.8...

**Class Component**

**componentDidError**

**getSnapshotBeforeUpdate**

**VS**

**Function Components**

**Everywhere else 😊**



# Prefer function components.

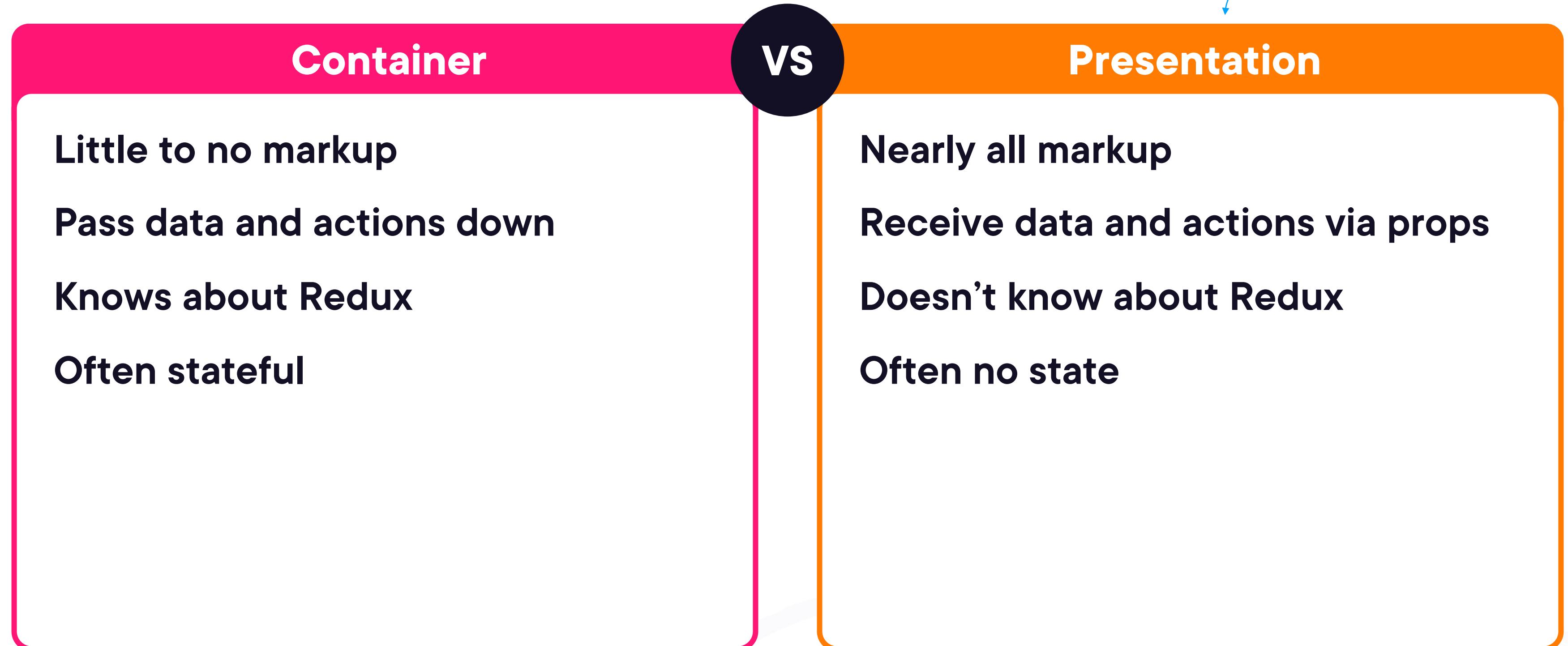
In this course we'll mostly  
use function components.



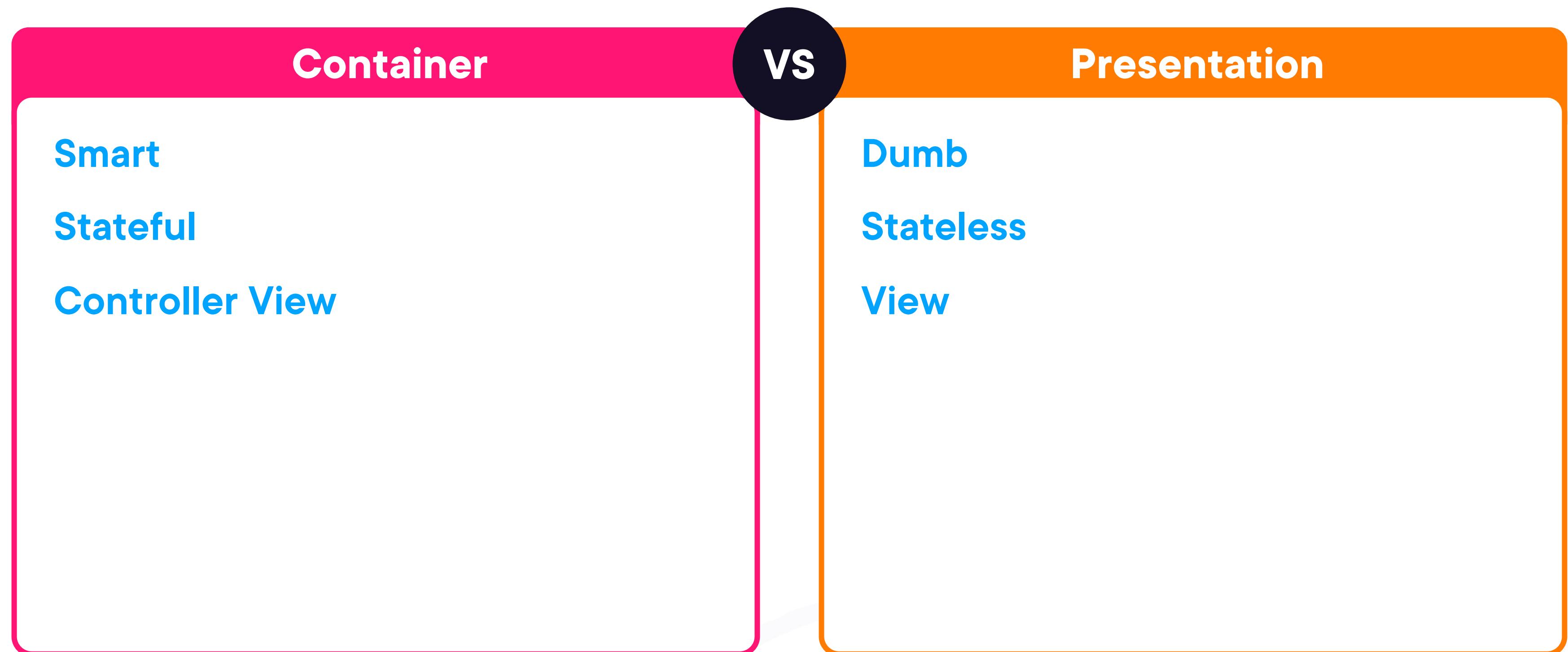
# Container vs Presentation Components



Most components



# Other Terms You Might Hear



Dan Abramov

**”When you notice some components don’t use props they receive but merely forward them down...it’s a good time to introduce some container components.”**



# Summary



**createClass**

**ES Class**

**Function**

**Arrow Function**

**Container vs Presentation Components**



**Up Next:**

# **Let's Start Building!**

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