

React: displayName

Because trying to debug a nest of Unknown components is kind of meh..

Functional Components

```
const LogoBackdrop = ({ url, color, children }) => {
 const className = 'bc-program-card_logo-backdrop'
 const style = { backgroundColor: color }
 const sharedProps = { className, style }
 .if (url) {
   return (
 {children}
 </a>
 } else {
   return <div {...sharedProps}>{children}</div>
```

React 16.6



React v16.6.0: lazy, memo and contextType

October 23, 2018 by Sebastian Markbåge

Today we're releasing React 16.6 with a few new convenient features. A form of PureComponent/shouldComponentUpdate for function components, a way to do code splitting using Suspense and an easier way to consume Context from class components.

https://reactjs.org/blog/2018/10/23/react-v-16-6.html

React.memo Like React.PureComponent, but functional!

React.memo

```
const MyComponent = React.memo(function MyComponent(props) {
   /* render using props */
});
```

React.memo is a higher order component. It's similar to

React.PureComponent but for function components instead of classes.

https://reactjs.org/docs/react-api.html#reactmemo

Memoized Functional Components

```
const LogoBackdrop = React.memo( type: ({ url, color, children }) => {
  const className = 'bc-program-card logo-backdrop'
  const style = { backgroundColor: color }
  const sharedProps = { className, style }
|..if.(url).{
return (
| <a href={url} {...sharedProps} aria-hidden tabIndex="-1">
{children}
</a>
} else {
    return <div {...sharedProps}>{children}</div>
1})
```





chrome web store



React Developer Tools

Offered by: Facebook





Memo -> Memo -> Unknown -> WTF?

```
▼ <Unknown csrfToken="VZAo4FU9cKUJxFjzMohsFVa
 ={false} isLoadingNewList={false} showLoadN
  ▼ <div>
     ▼ <ul className="row bc-panels bc-panels
       ▼ <Unknown isLoggedIn={true} loginUrl</p>
          ► <Memo key="20f81590-a309-46d6-ac3
           VZAo4FU9cKUJxFjzMohsFVa7jz5YGB1e0
          ▼ <Memo key="bugcrowdswag" isLogged</p>
           VZAo4FU9cKUJxFizMohsFVa7iz5YGB1e0
            ▼ <ProgramCard>
               ▼ <li className="col-xs-12 col
                 ▼ <div className="bc-panel b
                     <Memo name="Bugcrowd Sw</pre>
                     http://bugcrowd.test:30
                      ▼ <div className="bc-pr
                         ▼ <Memo url="/bugcrov
                           ▶ <Unknown drl="/b
                          </Memo>
                         ▼ <h4 classNam
                             <a href="/bugcro
                          </h4>
                         ▼ <Memo isTrial={fal:
                             <Unknown sTrial
                          </Memo>
                          </div>
                      </Memo>
```

```
<Memo name="Bugcrowd Sw</pre>
http://bugcrowd.test:30
▼ <div className="bc-pr</p>
   ▼ <Memo url="/bugcrow</p>
      ► <Unknown drl="/b</p>
     </Memo>
   V <h4 className="bc-</p>
        <a href="/bugcro
     </h4>
   ▼ <Memo isTrial={fal:</p>
        <Unknown isTrial</pre>
     </Memo>
```



displayName

The displayName string is used in debugging messages. Usually, you don't need to set it explicitly because it's inferred from the name of the function or class that defines the component. You might want to set it explicitly if you want to display a different name for debugging purposes or when you create a higher-order component, see Wrap the Display Name for Easy Debugging for details.

https://reactjs.org/docs/react-component.html#displayname

Maybe not..?

```
ES6'Fat Arrow' anonymous function
const LogoBackdrop = React.memo( type: ({ url, color, children }) => {
  const className = 'bc-program-card_logo-backdrop'
  const style = { backgroundColor: color }
```

Named function

```
const LogoBackdrop = React.memo(function LogoBackdrop({_url, color, children }) {
   const className = 'bc-program-card__logo-backdrop'
   const style = { backgroundColor: color }
```

Wrapping Display Name

Convention: Wrap the Display Name for Easy Debugging

The container components created by HOCs show up in the React Developer Tools like any other component. To ease debugging, choose a display name that communicates that it's the result of a HOC.

The most common technique is to wrap the display name of the wrapped component. So if your higher-order component is named

withSubscription, and the wrapped component's display name is

CommentList, use the display name WithSubscription(CommentList):

https://reactis.org/docs/higher-order-components.html#convention-wrap-the-display-name-forum-easy-debugging

memoWithDisplayName

```
/** Explicitly set the displayName on the component that is passed in. ...*/
export const withDisplayName = (displayName, component) => {
  component.displayName = displayName
 return component
/** Explicitly set the displayName on the component that is passed in, then wrap
export const memoWithDisplayName = (
 displayName,
 component,
 areEqual = undefined
 => {
 const memoComponent = memo(withDisplayName(displayName, component), areEqual)
 memoComponent.displayName = `Memo(${component.displayName})`
 return memoComponent
```

memoWithDisplayName

```
const LogoBackdrop = memoWithDisplayName(
   displayName: 'LogoBackDrop'
   component: ({ url, color, children }) => {
   const className = 'bc-program-card logo-backdrop'
   const style = { backgroundColor: color }
    const sharedProps = { className, style }
j....if.(url).{
return (
{children}
</a>
] . . . } else {
return <div {...sharedProps}>{children}</div>
) . . | . }
```

Components.. with Display Name(s)!

```
▼ <ProgramList csrtloken="/zCbzpwBg1rXeRqV01</p>
 isLoadingMore={false} isLoadingNewList={fa
  ▼ <div>
    ▼ <ul className="row bc-panels bc-panel
       ▼ <ProgramEntries isLoggedIn={true}
         ► <Memo(Program) key="a29f7b09-d62
           /zCbzpWBg1rXeRqV0Ium50lHC/qdc9BY
         ▼ <Memo(Program) key="bugcrowdswag</p>
           /zCbzpWBg1rXeRqV0Ium50lHC/gdc9BY
            ▼ <ProgramCard>
              ▼ <li className="col-xs-12 co
                 ▼ <div className="bc-panel
                   ▼ <Memo(ProgramHeader) na
                     logo="http://bugcrowd.
                     ▼ <div className="bc-p
                        ▼ <Memo(LogoBackDrog
                          ▶ <LogoBackDrop
                          </Memo(LogoB
                        ▼ <h4 className="pc-
                            <a href="/bugcr
                          </h4>
                        ▼ <Memo(Badge) isTr:
                            <Badge isTrial=
                          </Memo(Badge)>
                          /Memo ( ProgramHeader) >
```

```
<Memo(ProgramHeader) na
logo="http://bugcrowd.
 ▼ <div className="bc-p</p>
   ▼ <Memo(LogoBackDrop</p>
      <LogoBackDrop u</p>
     </Memo(LogoBackDro
   ▼ <h4 className="bc-
        <a href="/bugcr
     </h4>
   ▼ <Memo(Badge) isTr:</p>
        <Badge isTrial=
     </Memo(Badge)>
```



But how do I know when I need it?



But how do I know when I need it?



ESLint: react/display-name

Prevent missing displayName in a React component definition (react/display-name)

DisplayName allows you to name your component. This name is used by React in debugging messages.

Rule Details

The following patterns are considered warnings:

```
var Hello = createReactClass({
  render: function() {
    return <div>Hello {this.props.name}</div>;
  }
});
```

https://github.com/yannickcr/eslint-plugin-react/blob/master/docs/rules/display-name.md

Thank you!

