

Universal-React-Redux-Boilerplate-PLUS / React Helment

- We should use `React-Helmet` to add information to the `head` of the document which can be written to when certain components are loaded.
- nested components will take precedence over parent elements.
- allows for server-side rendering.
- `react-helmet` needs to know where to load this stuff in when it is created in your components, so we need to set-up some parameters when we create our `html` object.

```

1.   const Html = (props: Object) => {
2.     const { markup, state, assets: { styles, javascript, assets }, hel
met } = props
3.
4.     const htmlAttrs = helmet.htmlAttributes.toComponent();
5.     const bodyAttrs = helmet.bodyAttributes.toComponent();
6.
7.     return (
8.       <html {...htmlAttrs}>
9.         <head>
10.          <meta charSet="UTF-8" />
11.            {helmet.title.toComponent()}
12.            {helmet.base.toComponent()}
13.            {helmet.meta.toComponent()}
14.            {helmet.link.toComponent()}
15.            {helmet.script.toComponent()}
16.            {helmet.noscript.toComponent()}
17.            {helmet.and.toComponent() style}
18.          <meta name="viewport" content="width=device-width, initial-s
cale=1.0" />
19.          {
20.            Object.keys(styles).map(key => (
21.              <link key={ key } rel="stylesheet" href={ styles[key] }
/>
22.            ))
23.          }
24.          { __DEV__ && <style dangerouslySetInnerHTML={ { __html: getS
tyles(assets) } } /> }
25.        </head>
26.        <body {...bodyAttrs}>
27.          <div id="app" dangerouslySetInnerHTML={ { __html: markup } }
/>
28.          <script dangerouslySetInnerHTML={ { __html: getInitialStat
e(state) } } />
29.          <script src={ javascript.app } />
30.        </body>
31.      </html>
32.    )
33.  }

```

react-helmet properties:

```
1.  /**
2.      * @param {Object} base: {"target": "_blank", "href": "http://mysi
   te.com/"}
3.      * @param {Object} bodyAttributes: {"className": "root"}
4.      * @param {String} defaultTitle: "Default Title"
5.      * @param {Boolean} encodeSpecialCharacters: true
6.      * @param {Object} htmlAttributes: {"lang": "en", "amp": undefine
   d}
7.      * @param {Array} link: [{"rel": "canonical", "href": "http://mysi
   te.com/example"}]
8.      * @param {Array} meta: [{"name": "description", "content": "Test
   description"}]
9.      * @param {Array} noscript: [{"innerHTML": "<img src='http://mysit
   e.com/js/test.js'"}]
10.     * @param {Function} onChangeClientState: "(newState) => console.l
   og(newState)"
11.     * @param {Array} script: [{"type": "text/javascript", "src": "htt
   p://mysite.com/js/test.js"}]
12.     * @param {Array} style: [{"type": "text/css", "cssText": "div { d
   isplay: block; color: blue; }"}]
13.     * @param {String} title: "Title"
14.     * @param {Object} titleAttributes: {"itemprop": "name"}
15.     * @param {String} titleTemplate: "MySite.com - %s"
16.  */
```

react-helmet - All Examples

```

1. <Helmet
2.   encodeSpecialCharacters={true}
3.   titleTemplate="MySite.com - %s"
4.   // fallback if not template is inheriting title
5.   defaultTitle="My Default Title"
6.   // `newState` returns an object with all the new Helmet attributes
   in the Component
7.   onChangeClientState={(newState) => {console.log(newState) }}
8. >
9.   <html lang="en" amp />
10.  <body className="bodywrapper-blog" />
11.  <title itemProp="name" lang="en">My Title</title>
12.  { /* sets the base for relative resources/links */ }
13.  <base target="_self" href="//localhost:3000/" />
14.  { /* add meta-data */ }
15.  <meta name="description" content="Helmet application" />
16.  <meta property="og:type" content="article" />
17.
18.  <link rel="canonical" href="https://localhost:3000/" />
19.  <link rel="apple-touch-icon" href="http://localhost:3000/img/app
   e-touch-icon-57x57.png" />
20.  <link rel="apple-touch-icon" sizes="72x72" href="http://localhos
   t:3000/img/apple-touch-icon-72x72.png" />
21.  { /* add resources */ }
22.  <link href="https://cdn.rawgit.com/michalsnik/aos/2.1.1/dist/aos.c
   ss" rel="stylesheet" />
23.  <script src="https://cdn.rawgit.com/michalsnik/aos/2.1.1/dist/ao
   s.js" type="text/javascript" />
24.  { /* inline elements */ }
25.  <script type="application/ld+json">{`
26.    {
27.      "@context": "http://schema.org"
28.    }
29.  `}</script>
30.  <noscript>{`
31.    <link rel="stylesheet" type="text/css" href="foo.css" />
32.  `}</noscript>
33.  <style type="text/css">{`
34.    body {
35.      background-color: blue;
36.    }
37.  `}</style>
38. </Helmet>

```

Let's look at a Example:

- going to be updating the `title` tag and `body` CSS className on each Component

App.js (The App Wrapper - will be shown on all pages unless nested components override it.)

- `%s` : Useful when you want titles to inherit from a template:
- also notice the `bodyAttributes` property needs to be encapsulated in TWO pairs of curly braces, once to parse as JS, 2nd time because it is an Object!

```
1. <Helmet
2.   titleTemplate="%s | Your Site Name"
3.   defaultTitle="Your Site Name"
4.   bodyAttributes={{ "className": "pagewrapper-app" }}
5. >
6.   <meta name="description" content="This will show up on SERPs" />
7. </Helmet>
```

- include `defaultTemplate` for the actual page as a fallback title
`BlogIndex.js`

```
1. <Helmet>
2.   <title>How to Use React-Helmet</title>
3.   <meta name="description" content="This is our blog" />
4.   <bodyAttributes className="pagewrapper-blog" />
5. </Helmet>
```

When you switch to ANY page that does not have `<Helmet />` be aware that the react-helmet code in `App.js` will be run each time, meaning all pages will have a `body` classname of `pagewrapper-app` and a `title` of `Your Site Name` unless otherwise specified.

... the `title` on the Blog page would be shown in the browser tab as `How to Use React-Helmet | Your Site Name`

EXTRA SHIT - Appending a bodyAttr instead of replacing it:

- what's interesting about this? Remember that this code is isomorphic—meaning it runs on both the server and the client. When this runs on the server there is no `document` object since this comes from the browser and node clearly is not! Typically you wouldn't need to check if `window` exists, but we need to be sure the server doesn't throw an error when looking for `document`. This ensures that chunk of code is only run on the client.

```
1. const bodyClassesToAdd = "pagewrapper-blog something-else"
2. let bodyClassNames = ""
3. if(typeof window !== 'undefined') {
4.   bodyClassNames = !document.querySelector("body").getAttribute("class").includes(bodyClassesToAdd) ? (document.querySelector("body").getAttribute("class") + " " + bodyClassesToAdd) : document.querySelector("body").getAttribute("class")
5. };
6.
7. <Helmet titleTemplate="%s | Your Site Knowledge Base" bodyAttributes={{ "class": bodyClassNames }}>
```

