I DON'T KNOW WHY EITHER

REACT SERVER SIDE RENDERING WITH PHP

REACT

- Enough said...

SSR

- Server side rendering
- As long as I can remember, people have been in love with the idea of rendering React Server Side
- Some obvious benefits with regards to speed, FOUC, UX

SSR REACT – HOW?

- Using the React DOM module

SSR REACT – HOW?

- Using the React DOM module
- … kind of…

REACT DOM SERVER

- Included in the React DOM module
- `import { ReactDOMServer } from “react-dom/server”`
- Use this module in NodeJS to render React Content on the server

REACT DOM SERVER

- **`renderToString`**`(elem)`
  - Render a React element to its initial HTML.
  - Links into your React app when JS is loaded.
- **`renderToStaticMarkup`**`(elem)`
  - Similar to above, won’t hook into React.
- **`renderToNodeStream`**`(elem)`
  - Returns a Readable stream that outputs an HTML string.
  - The stream returned from this method will return a byte stream encoded in utf-8.

POOR EXAMPLE

```
1
2   import { ReactDOMServer } from "react-dom/server";
1
2   router.get("/", (req, res) => {
3     const ssrApp = ReactDOMServer.renderToString("<App />");
4
5     res.write(`<html><body>${ssrApp}</body></html>`);
6   });
7
```

SSR REACT

- So now we have an idea...

SSR REACT

- So now we have an idea...
- ... and I had an idea...

PHP

- More than enough said...

SSR REACT

- I remember reading that it was possible…
- But how?

V8JS

- V8 JavaScript engine for PHP
- Embeds Google V8 Engine
- Use PECL to install
- Enable in your php.ini file

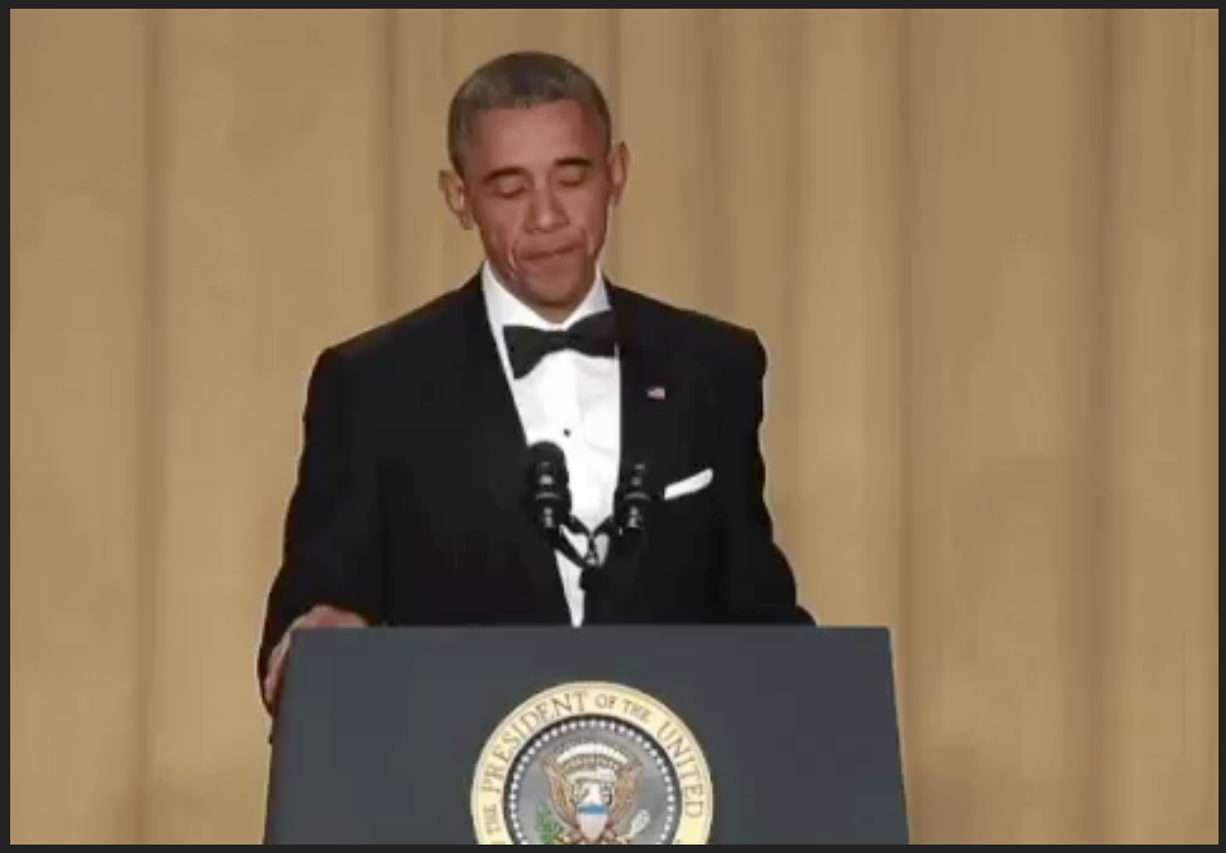
SO...

- It kind of writes itself from here...

SSR REACT

- Use V8 Engine to render your React app on the PHP server
- Spit it out to the browser

I'M OUT



NAH



CODE – SIMPLE REACT APP

CODE: SIMPLE REACT APP

CODE – GETTING REACT READY

- Need to expose React (and associated pieces) globally
- “Hydrate” your React app
- Be wary of your plugins
  - “BrowserRouter” doesn’t work server side, make sure you’re aware of these nuances

CODE: RENDERING SERVER SIDE

THOUGHTS

- A lot of work for… what?
  - SEO Concerns
- `componentDidMount` XHR
  - Maybe use for headers, navs, page structure and let the requests happen?
  - Maybe for more “dynamic” content
- Storing state as a whole

THANKS, Y'ALL!!