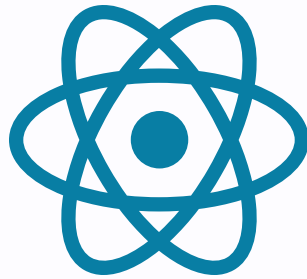


Black & White Series

React & JSX

Thinking in React

React



- <https://react.dev/>
- JavaScript Framework
- to produce interactive (reactive) interfaces
- founded in JSX and Components

First React Program

Available at: [frameworks/react/1-basic-raw](#)

First React Program

HTML Root Element

```
<body>  
  <div id="root"></div>  
  ...  
</body>
```

First React Program

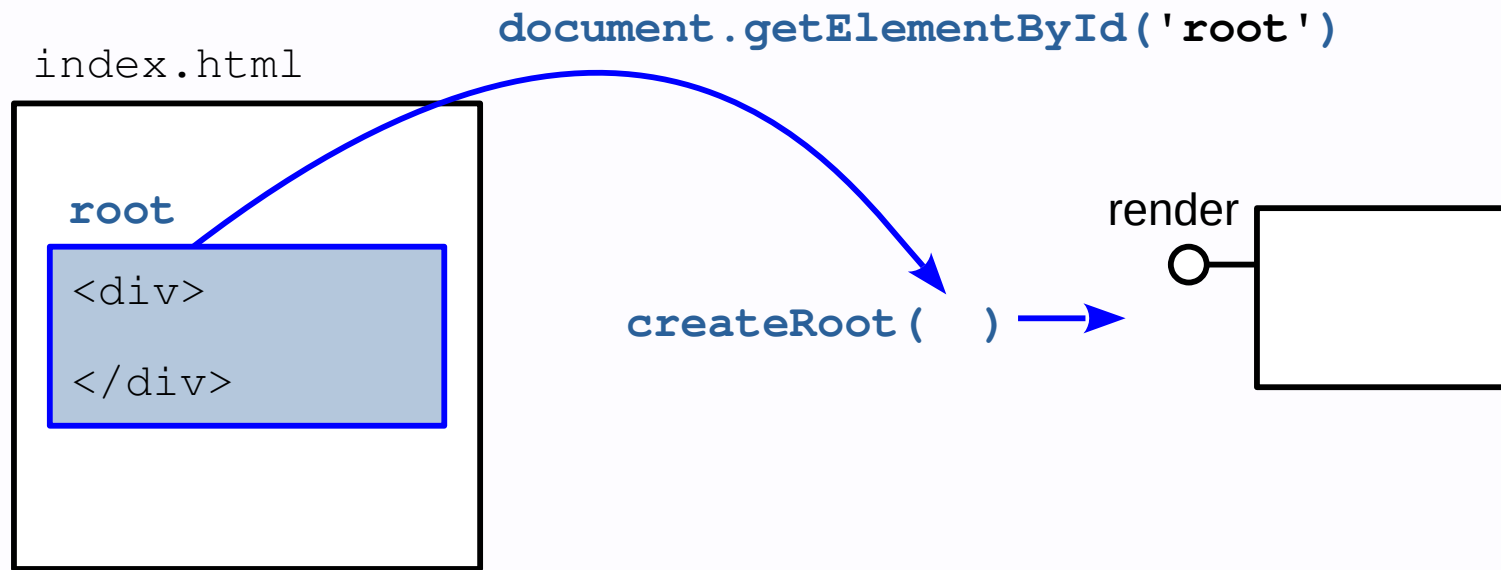
Importing Libraries from CDN

CDN - Content Delivery Network

```
<script src="https://unpkg.com/react/umd/react.development.js">  
</script>  
<script src="https://unpkg.com/react-dom/umd/react-dom.development.js">  
</script>
```

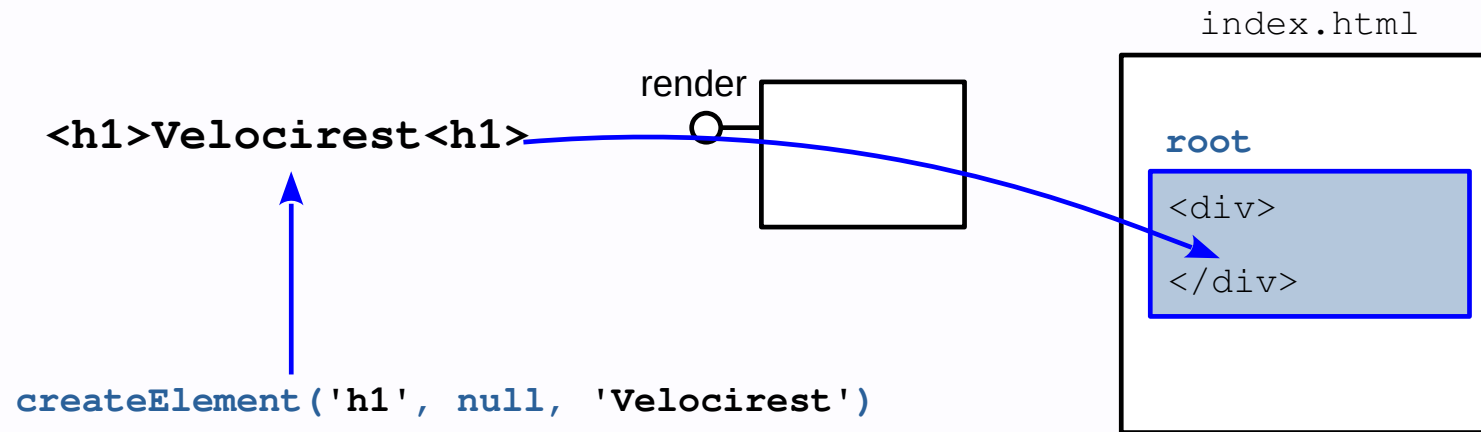
First React Program - Script

```
const { createRoot } = ReactDOM
const root = createRoot(document.getElementById('root'))
```



First React Program - Script

```
const { createElement } = React
root.render(
  createElement('h1', null, 'Velocirest')
)
```

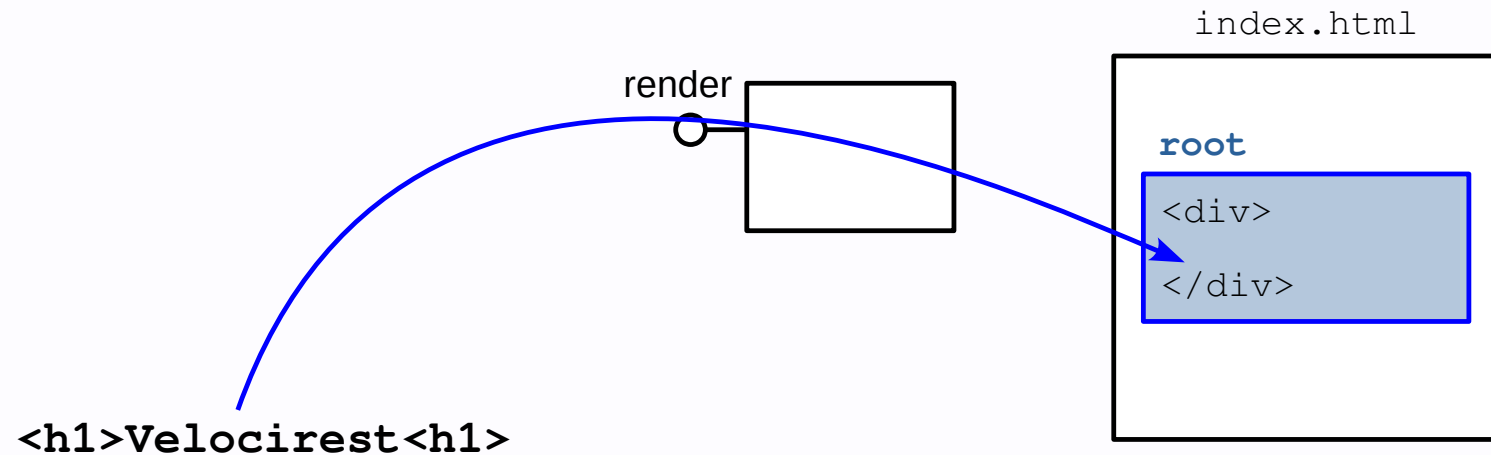


JSX

- Proposed by Facebook
 - <https://facebook.github.io/jsx/>
- XML constructs within JavaScript
- Requires the use of a Transpiler (preprocessor)

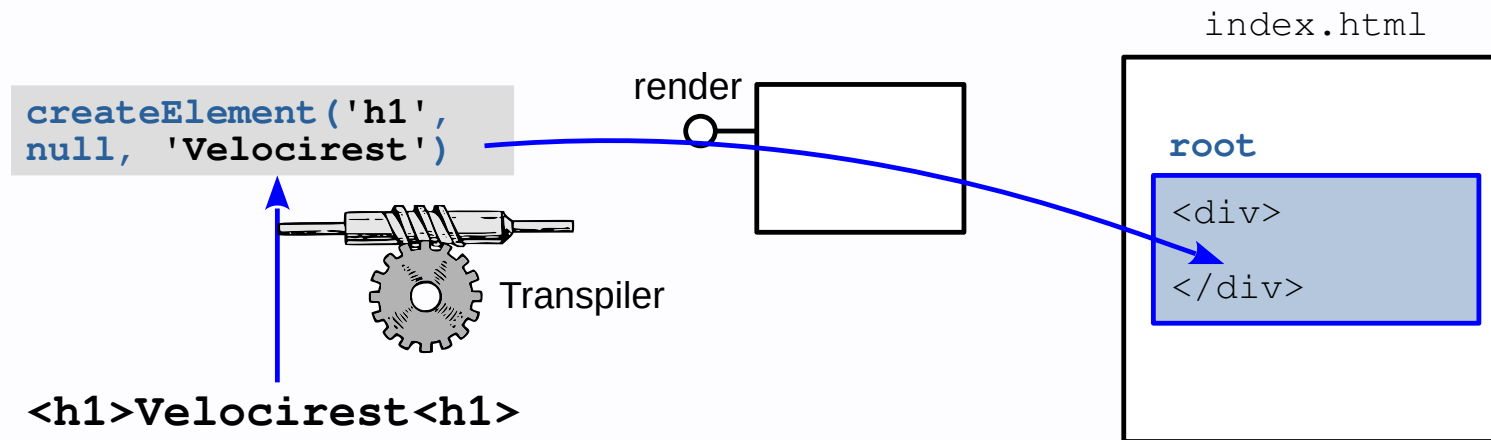
React with JSX

```
root.render(  
  <h1>Velocirest</h1>  
)
```



JSX and Babel Transpiler

```
<script src="https://unpkg.com/@babel/standalone/babel.min.js"></script>  
<script type="text/babel">  
  ...  
</script>
```

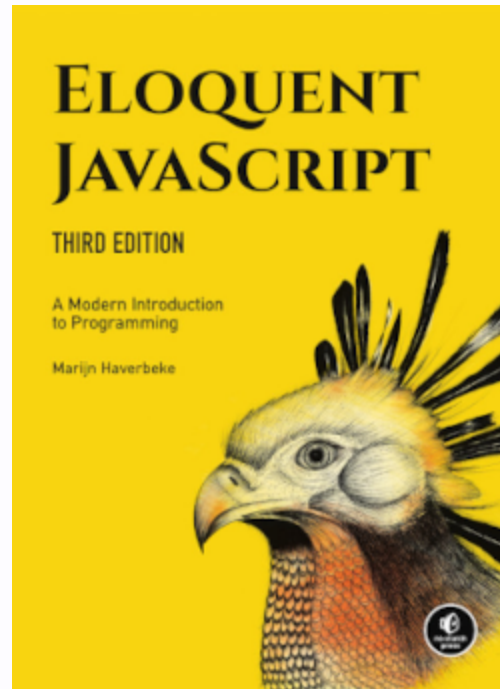


Babel Transpiler

BABEL

References

- Writing Markup with JSX
- Eloquent JavaScript -
<https://eloquentjavascript.net/>



André Santanchè

www.ic.unicamp.br/~santanch/

Web2Learn

santanche.github.io/web2learn/