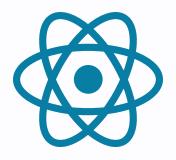
Black & White Series

React & JSX

Thinking in React

React



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

Examples at CODEPEN

https://codepen.io/santanche/collections/

First React Program

Available at: frameworks/react/1-basic-raw

First React Program

HTML Root Element

First React Program

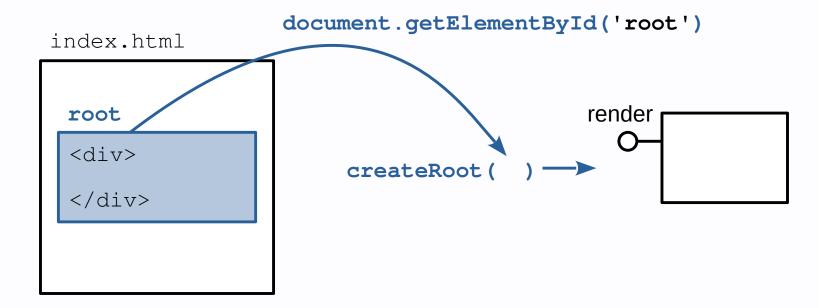
Importing Libraries from CDN

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></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></scr
```

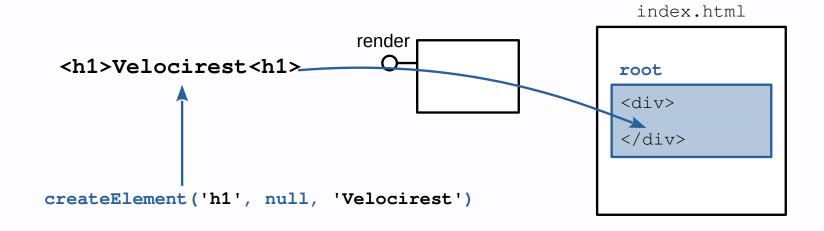
First React Program - Script

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



First React Program - Script

```
root.render(
   React.createElement('h1', null, 'Velocirest')
)
```



JSX

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

```
JSP
     <% %>
<jsp:useBean id="umaBarra" scope="page"
     class="pt.c01jsp.s05bean.Barra" />
<%= umaBarra.monta() %>
```

```
PHP
<? ?>
<?php echo '<p>Hello World'; ?>
```

```
JSF
#{
}
<h2>Welcome #{helloBean.name}</h2>
```

```
AngularJS
<div ng-app>
   <h2>1 + 2 = {{1 + 2}}</h2>
</div>
<div ng-app="app">
  <sentenca></sentenca>
</div>
```

JSP <% %> **PHP** <? ?> **JSF** #{ }

```
JSX
{
}
<h1>
     0 dinossauro {this.props.nome} pulou na lama.
</h1>
</encertain-
</encert
```

```
AngularJS {{ }}
```

```
PHP <? ?>
```

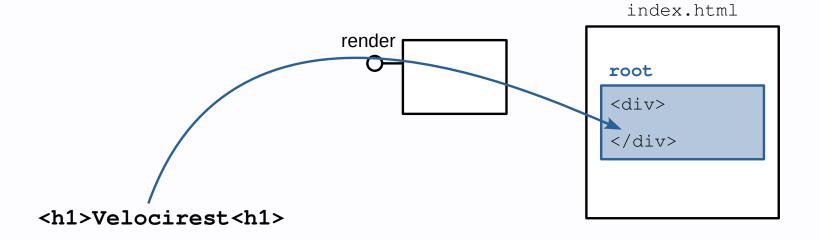
```
JSF
#{ }
```

React with JSX

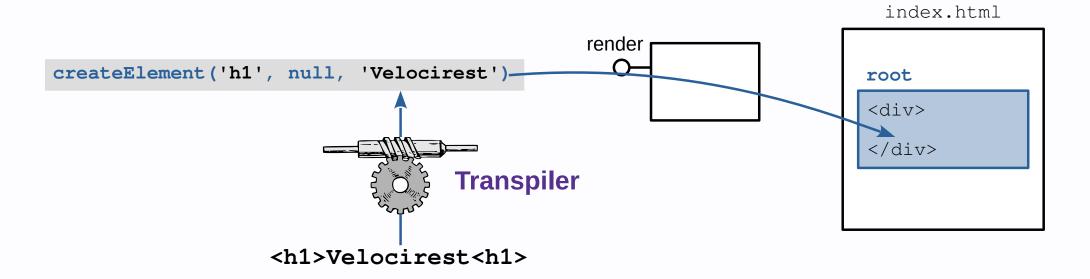
Available at: frameworks/react/2-basic-jsx

React with JSX

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



JSX and Babel Transpiler



Babel Transpiler



References

- Writing Markup with JSX
- React createRoot
- React createElement
- Eloquent JavaScript

André Santanchè

www.ic.unicamp.br/~santanch/

Web2Learn

santanche.github.io/web2learn/