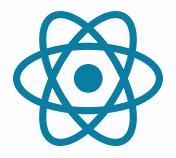
Black & White Series

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

#### First React Program

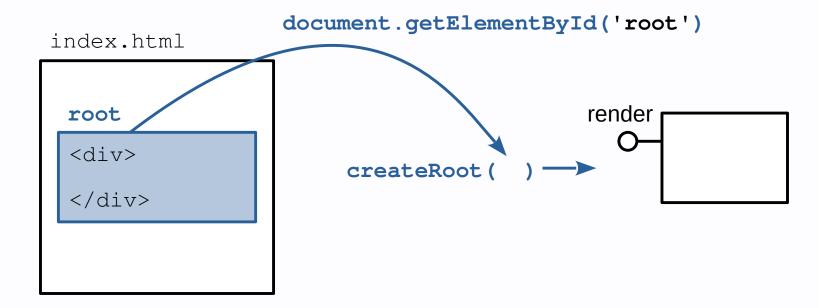
# Importing Libraries from CDN

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
```

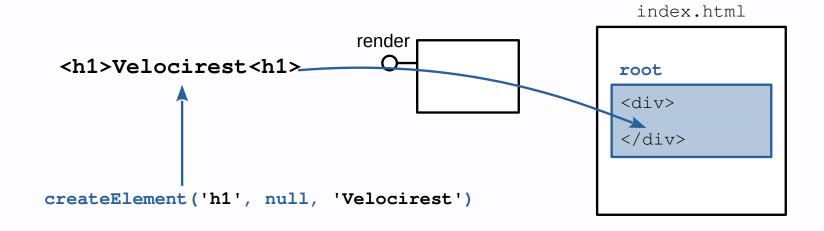
## First React Program - Script

```
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** #{ }

```
AngularJS {{ }}
```

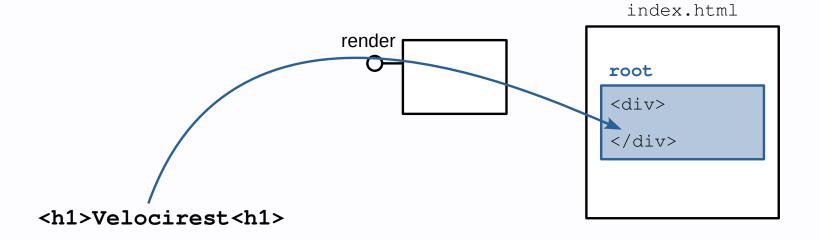
JSP <% %>

PHP <? ?>

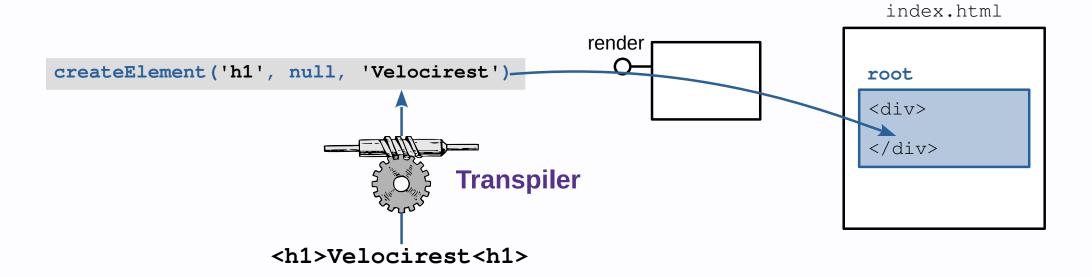
JSF #{ }

#### 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/