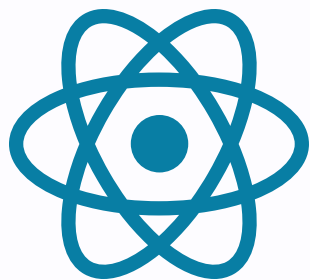


Black & White Series

# React Components

Thinking in React

# React



- <https://react.dev/>

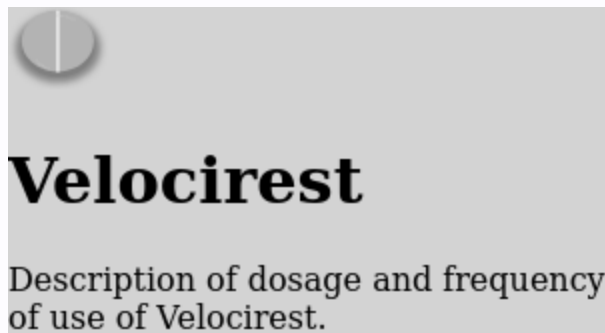
# React Component

Available at: [frameworks/react/4-component](#)

# HTML Specification

## Component Step 1

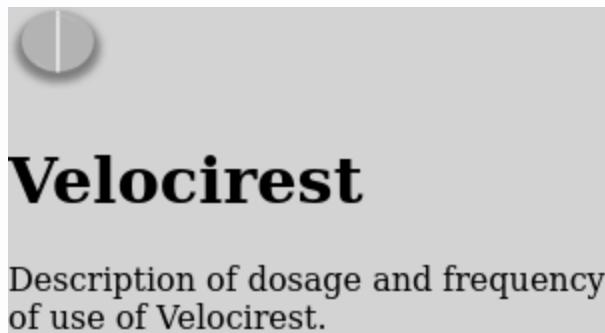
```
<div style={{width: '300px', background: 'lightgray'}}>
  <img src={medication1} width="50px"/>
  <h1>Velocirest</h1>
  <p>Description of dosage and frequency of use of Velocirest.</p>
</div>
```



# HTML Specification

## Component Step 1

```
export default function MedicationItem() {  
  return <div style={{width: '300px', background: 'lightgray'}}>  
    <img src={medication1} width="50px"/>  
    <h1>Velocirest</h1>  
    <p>Description of dosage and frequency of use of Velocirest.</p>  
  </div>  
}
```



## First React Program

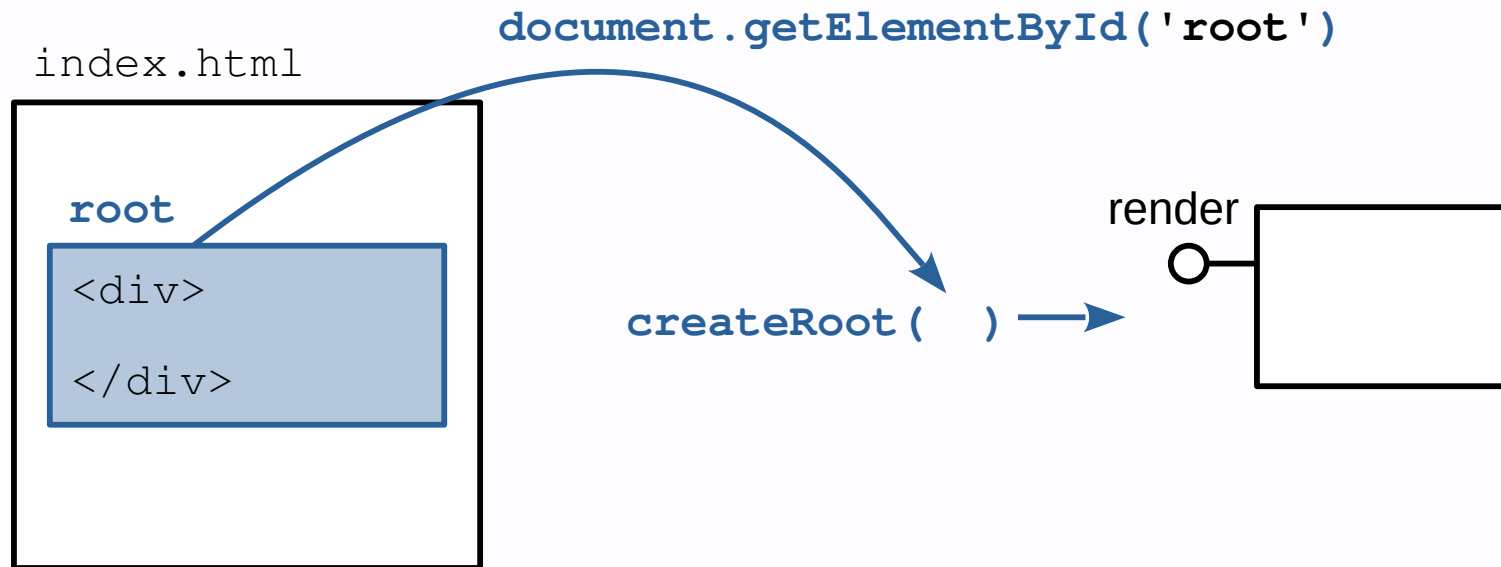
# Importing Libraries from CDN

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>
```

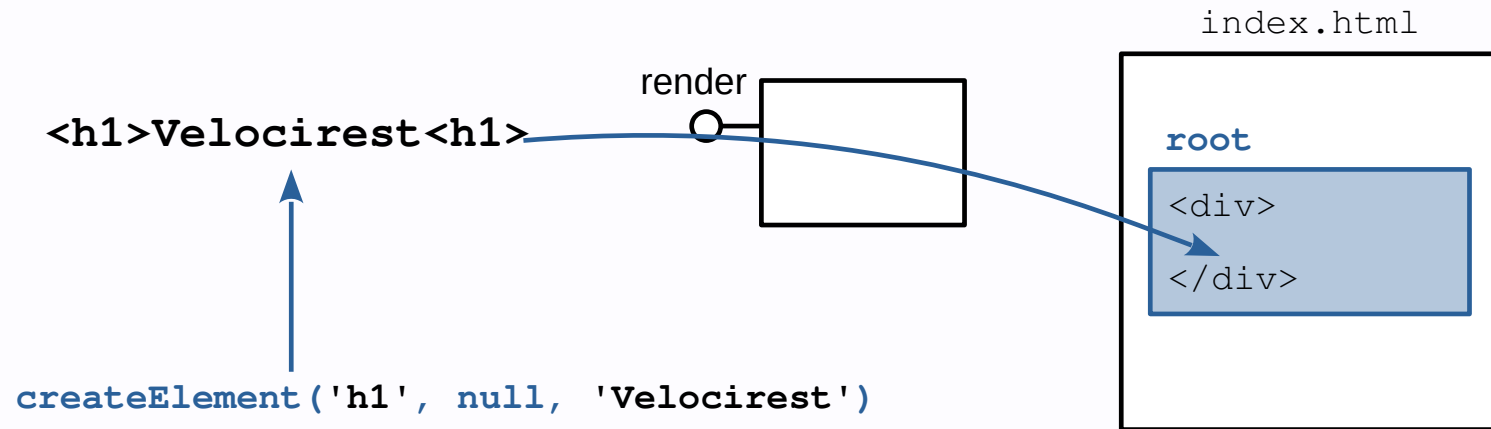
# First React Program - Script

```
const 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)

# React with JSX

Available at: [frameworks/react/2-basic-jsx](https://facebook.github.io/react/docs/frameworks/react/2-basic-jsx.html)

## JSP

`<% %>`

```
<jsp:useBean id="umaBarra" scope="page"
             class="pt.c01jsp.s05bean.Barra" />
```

```
<%= umaBarra.monta() %>
```

## PHP

`<? ?>`

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

## 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>
```

```
<Sentenca nome="Horácio" />
```

**AngularJS**

{{ }}

**JSP**

<% %>

**PHP**

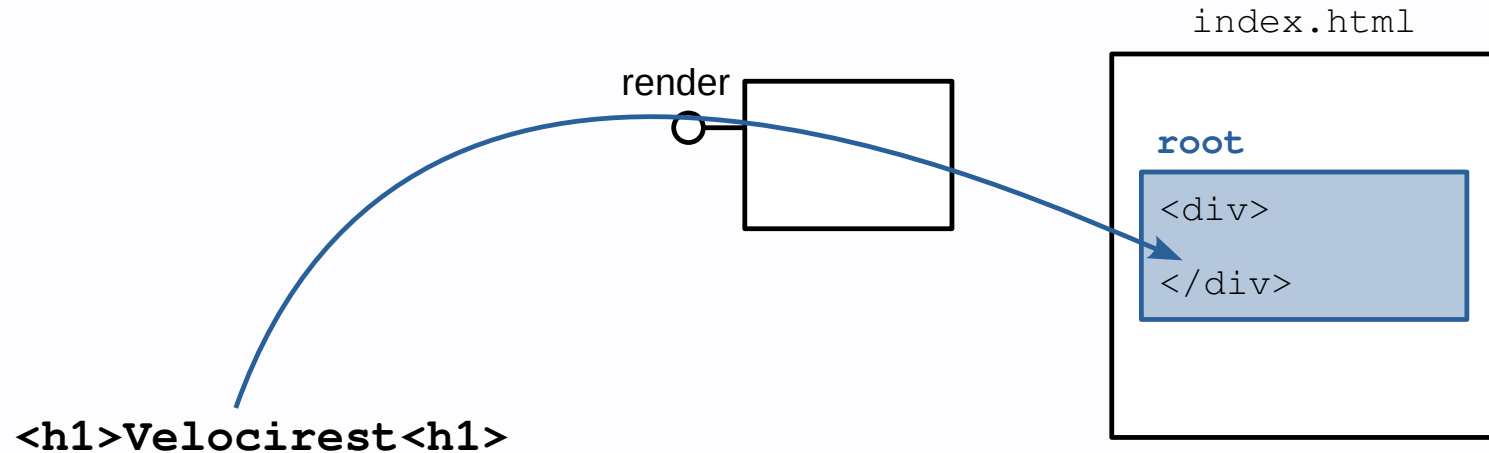
<? ?>

**JSF**

#{ }

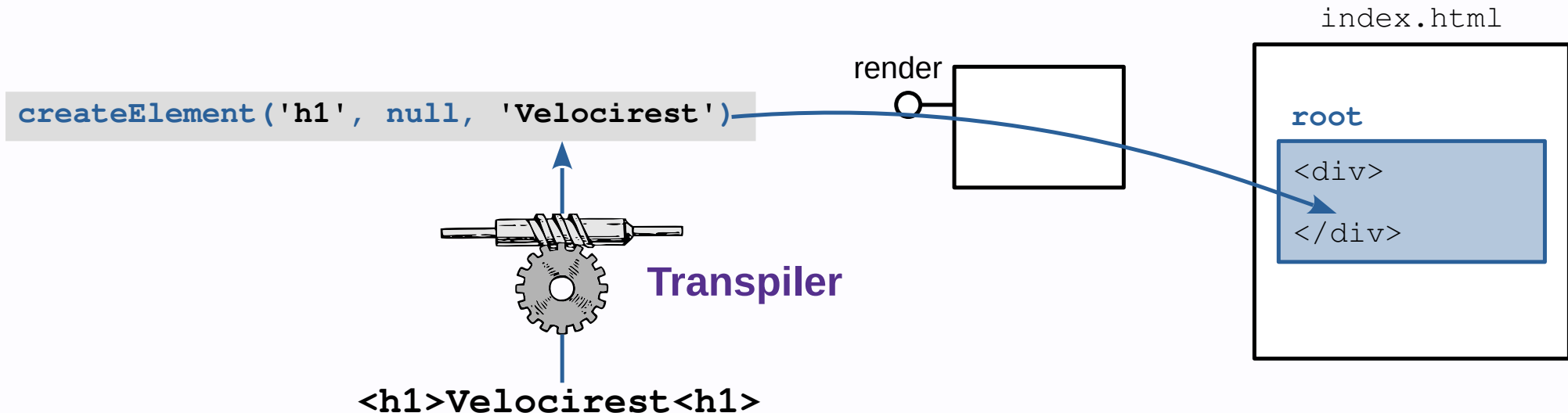
# React with JSX

```
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](#)
- [React createRoot](#)
- [React createElement](#)
- [Eloquent JavaScript](#)

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**Web2Learn**

[santanche.github.io/web2learn/](http://santanche.github.io/web2learn/)