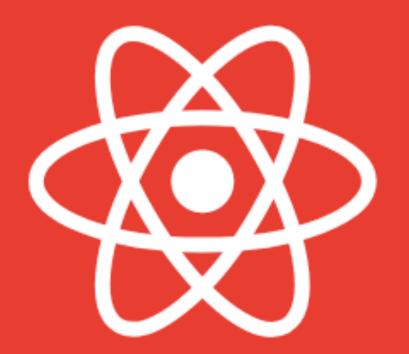
REASON



ReasonReact

Stateless Component

Greeting.re

```
let component = ReasonReact.statelessComponent("Greeting");
let make = (_children) => {
    ...component,
    render: _self => <h1>(ReasonReact.string("Hello"))</h1>,
};
```

App.re

ReactDOMRe.renderToElementWithId(<Greeting />, "root");

Props

Greeting.re

```
let component = ReasonReact.statelessComponent("Greeting");
let make = (~name, _children) => {
    ...component,
    render: _self => <h1>(ReasonReact.string("Hello " ++ name))</h1>,
};
```

App.re

ReactDOMRe.renderToElementWithId(<Greeting name="Helsinki" />, "root");

Props

Greeting.re

App.re

ReactDOMRe.renderToElementWithId(<Greeting name="0dessa" />, "root");

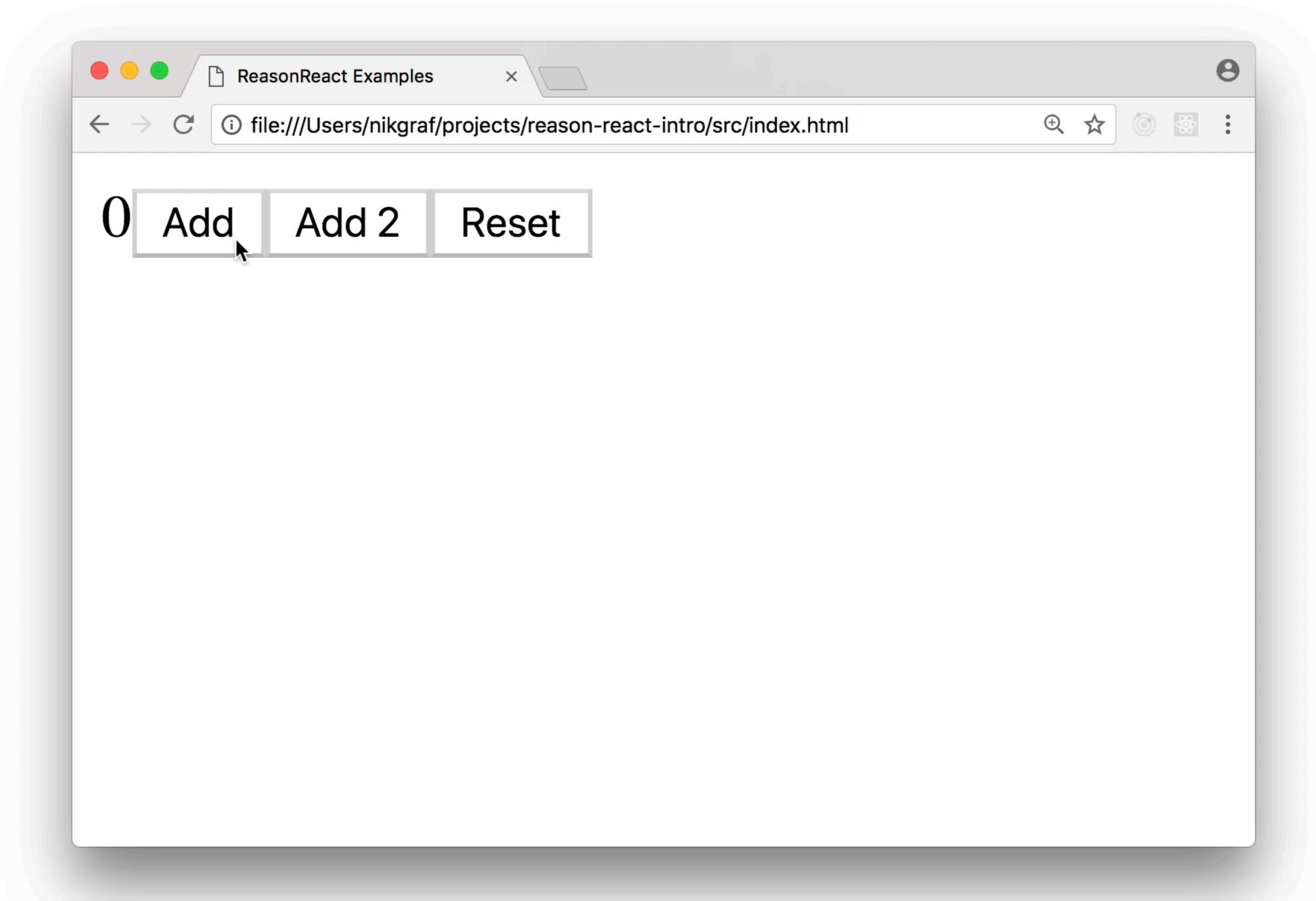
Props

Greeting.re

```
let component = ReasonReact.statelessComponent("Greeting");
let make = (~name, _children) => {
    ...component,
    render: _self => <h1>(ReasonReact.string("Hello "_++ name))</h1>,
};
```

App.re

ReactDOMRe.renderToElementWithId(<Greeting name="Odessa" />, "root");



```
type state = {count: int};
```

```
type state = {count: int};

type action =
    | Add(int)
    | Reset;

let s = ReasonReact.string;

let component = ReasonReact.reducerComponent("Counter");
```

```
type state = {count: int};
type action =
    Add(int)
    Reset;
let s = ReasonReact.string;
let component = ReasonReact.reducerComponent("Counter");
let make = _children => {
  ...component,
  initialState: () => {count: 0},
```

```
type state = {count: int};
type action =
    Add(int)
    Reset;
let s = ReasonReact.string;
let component = ReasonReact.reducerComponent("Counter");
let make = _children => {
  ...component,
  initialState: () => {count: 0},
  reducer: (action, state) =>
    switch (action) {
      Add(value) => ReasonReact.Update({count: state.count + value})
      Reset => ReasonReact.Update({count: 0})
```

```
type state = {count: int};
type action =
    Add(int)
    Reset;
let s = ReasonReact.string;
let component = ReasonReact.reducerComponent("Counter");
let make = _children => {
  . . component,
  initialState: () => {count: 0},
  reducer: (action, state) =>
    switch (action) {
      Add(value) => ReasonReact.Update({count: state.count + value})
      Reset => ReasonReact.Update({count: 0})
  render: self =>
    <div>
      (s(string_of_int(self.state.count)))
       zbutton on Click-( over -> colf cond(\Lambdadd(1)))> (c(U\LambdaddU)) z(buttons
```

```
let s = ReasonReact.string;
let component = ReasonReact.reducerComponent("Counter");
let make = _children => {
  ...component,
  initialState: () => {count: 0},
  reducer: (action, state) =>
    switch (action) {
      Add(value) => ReasonReact.Update({count: state.count + value})
     Reset => ReasonReact.Update({count: 0})
  render: self =>
    <div>
      (s(string_of_int(self.state.count)))
      <button onClick=(_event => self.send(Add(1)))> (s("Add")) </button>
      <button onClick=(_event => self.send(Add(2)))> (s("Add 2")) </button>
      <button onClick=(_event => self.send(Reset))> (s("Reset")) </button>
    </div>,
```



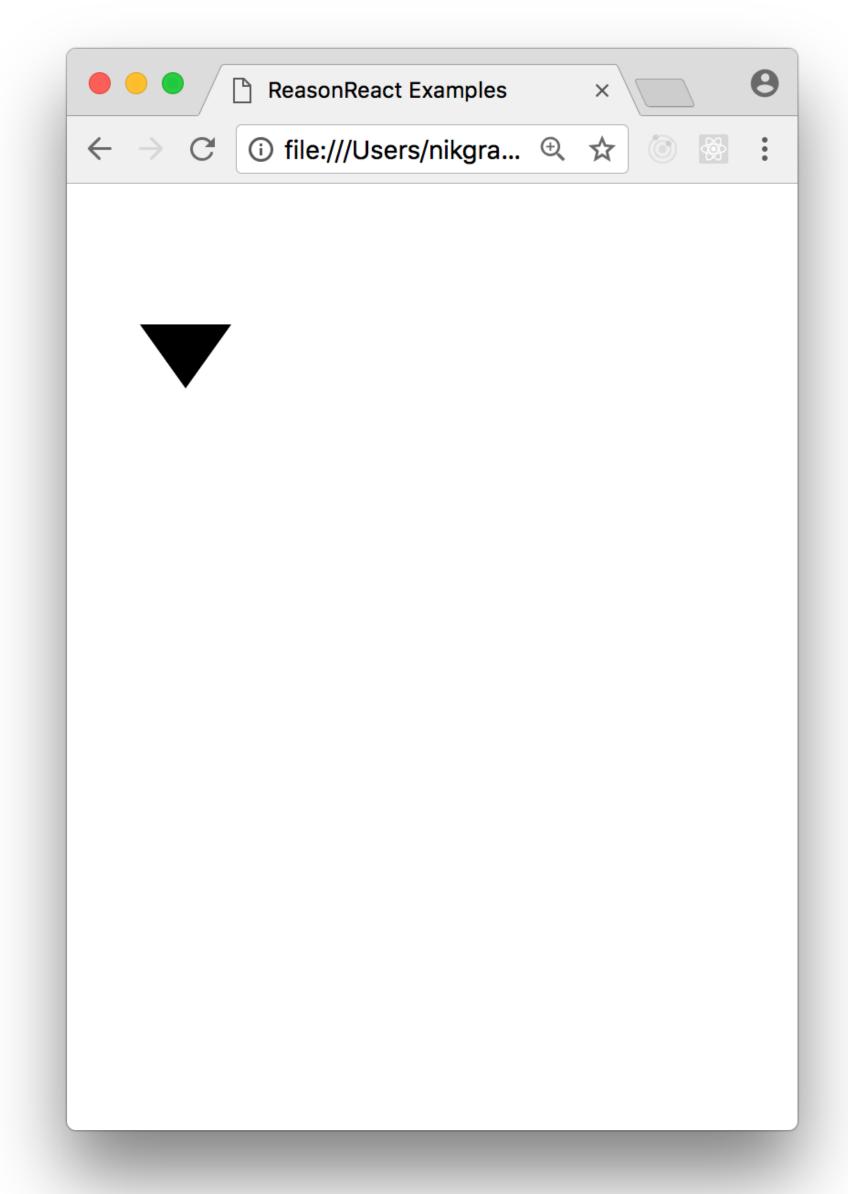
Interop with JavaScript

BuckleScript allows us to write bindings

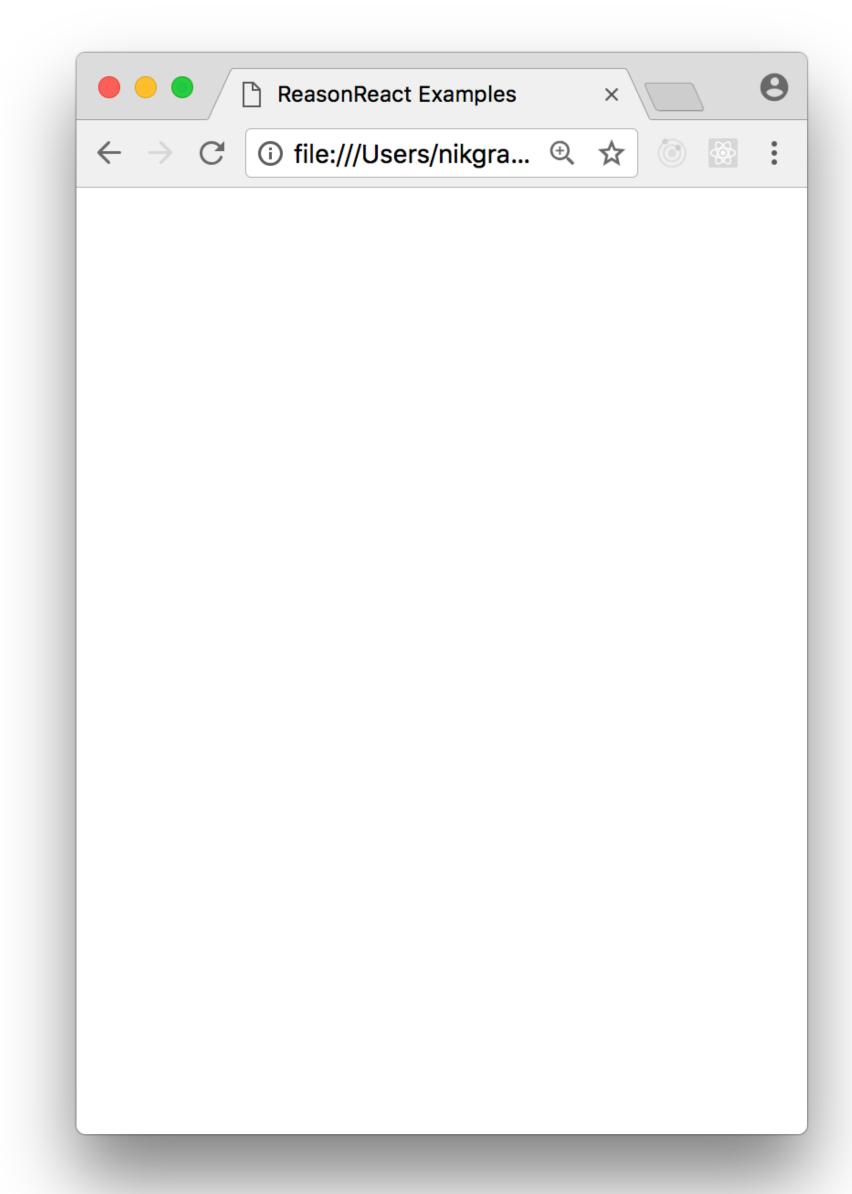
ReasonReact

- wrapJsForReason
- wrapReasonForJs

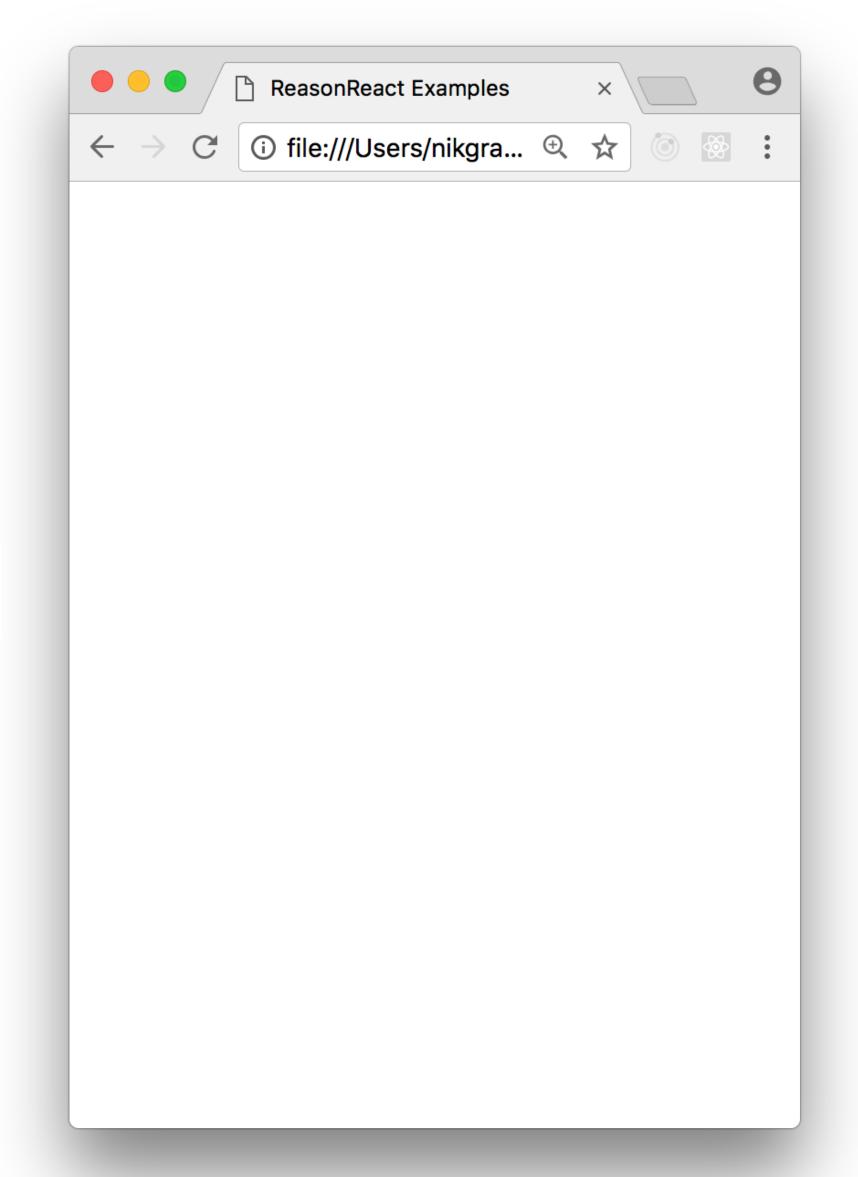
<Arrow direction="down" />

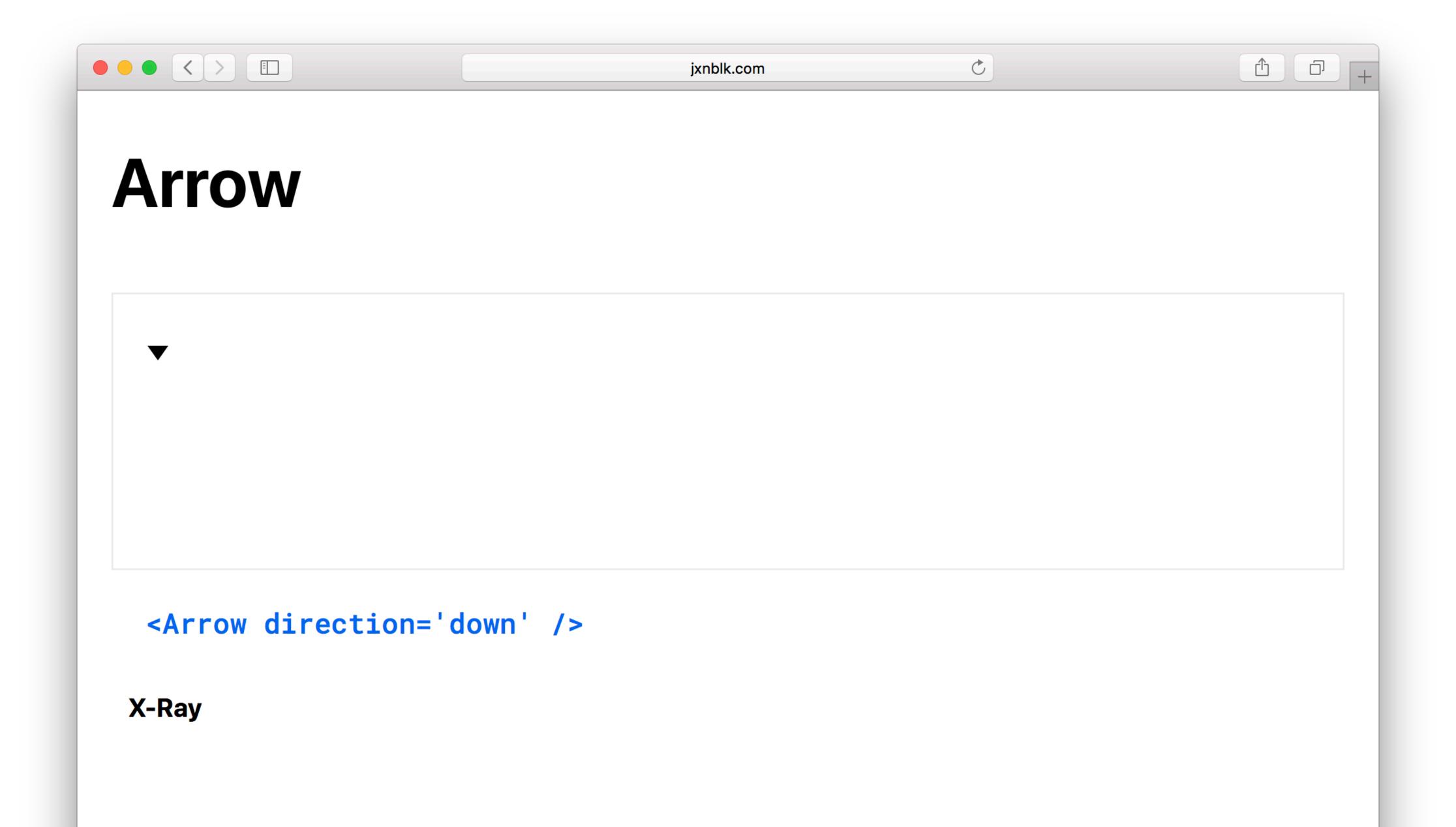


<Arrow direction="left" />



<Arrow direction="notRight"/>

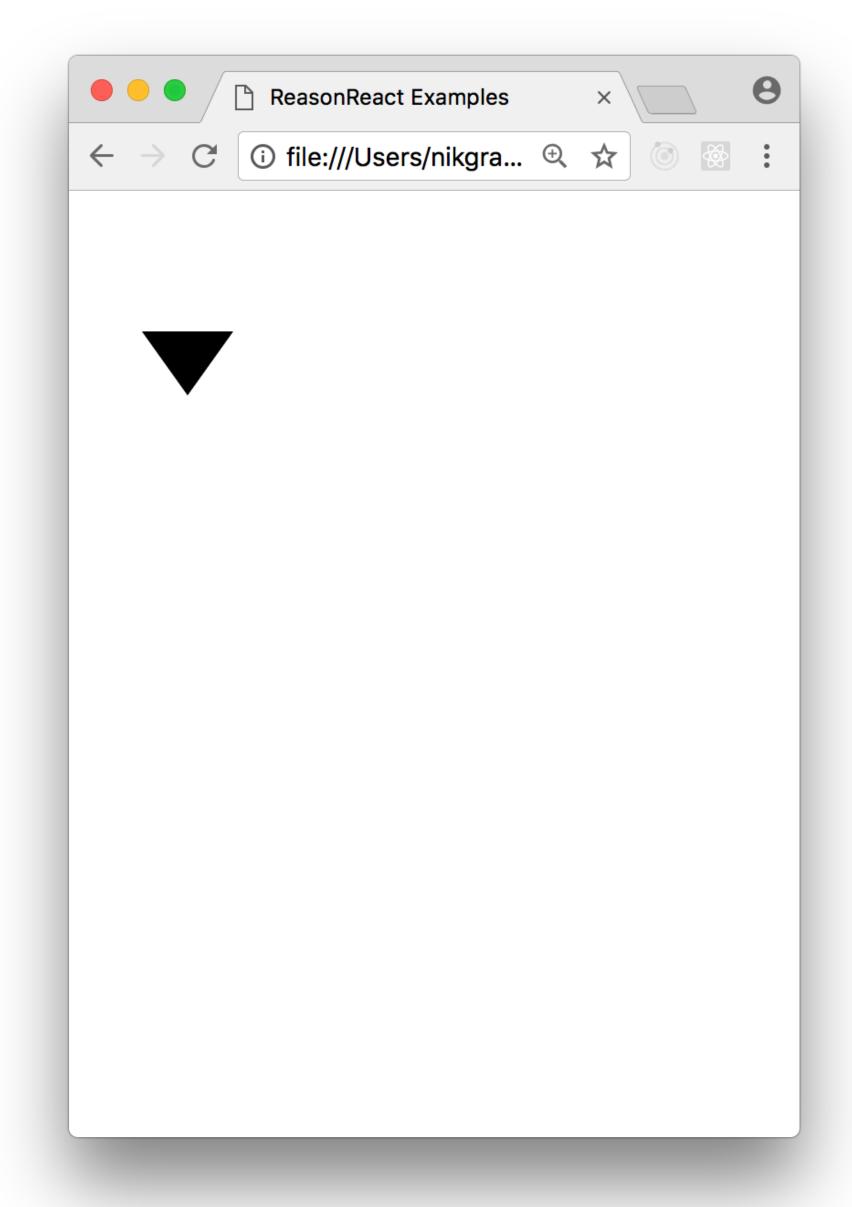






```
[@bs.module "rebass"] external jsArrow : ReasonReact.reactClass = "Arrow";
type direction =
    Down;
let make = (~direction, children) => {
  let directionString =
    switch (direction) {
     Up => "up"
     Down => "down"
  ReasonReact wrapJsForReason(
    ~reactClass=jsArrow,
    ~props={"direction": directionString},
    children,
```

<Arrow direction=Arrow Down />;



<Arrow direction=Arrow Left />;

```
<Arrow direction=Arrow Left />;
```

```
3 | let make = _children => {
4 | ...component,
5 | render: _self => <div> <Arrow direction=Arrow.Left /> </div>,
6 | };
```

The variant constructor Arrow.Left can't be found.

The Snal