Type-safe, functional React with ReasonML

QueerJS Internet Meetup 🏳️‍🌈

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Hello there!

My name is **Guillaume Bogard**, I'm a Scala developer @Linkvalue.

I ❤️ functional programming and teach it through blog posts, talks, and in-person training.

My hobbies include going to the movies, playing strategy games and riding roller coasters 🎢

What is ReasonML?

- Not an entirely new language. Reason is essentially equivalent to OCaml 🐫 (strong foundations!)

- Its syntax is inspired by Javascript (easy adoption!)

- It has easy interop with Javascript (#usetheplarform!)

- It's *fast* (blazing-fast compilation + clean Javascript output!)

We use *Bucklescript* to compile ReasonML code to Javascript.
We can also compile ReasonML to native code,
it's just Ocaml with makeup after all 💄

It has React as originally intended: functional, easy and type-safe. Don't take it from me:

I see ReasonML as a way to unlock a much more ambitious future for UI development.

Jordan Walke, original author of React and ReasonML,
React to the future (talk on YouTube)

What's in the talk

- Spinning up a new React app in no time

- JSX support and CSS-in-JS

- Modules

- Records and other types

- Variants and pattern matching

- Functional composition and currying

Let's go!

ReasonReact

UI development, easy peasy

ReasonReact is the official React binding for ReasonML.

- It has 100% feature-parity with vanilla React

- It supports JSX

- It works with React Native and Preact

- There are bindings for popular UI tools such as:

    - CSS-in-JS with a type-safe binding to *emotion*

    - Snapshot testing via *Jest*

    - Visual component development via *Storybook*

Spinning up a ReasonReact is as easy as

```
npm install -g spin
```

```
spin new bs-react my_app
cd my_app
```

```
yarn start
```

Props to Thibaut Mattio for the awesome spin scaffolding tool

Here comes the demo 🍿

One more thing

Is it production ready?

It sure is!

Thank you for having me! 💖

If you want to keep in touch: @bogardguillaume