

ClojureScript Reagent Tutorial

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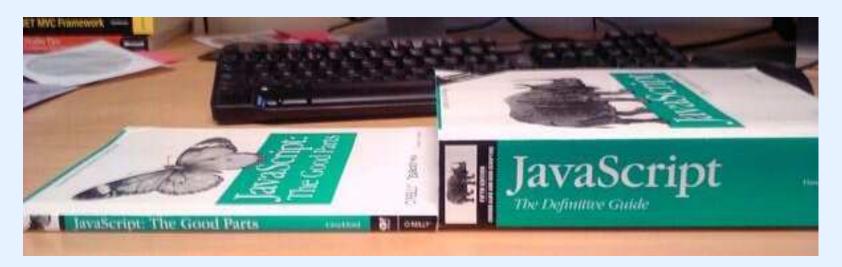
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Why ClojureScript? Isn't JavaScript good enough?



ClojureScript lets us use Clojure, a real lisp, in place of JavaScript.



ClojureScript versus JavaScript - Namespaces

JavaScript has no native namespacing.

ClojureScript's namespacing works the same as in Clojure.

One namespace:

```
1 (ns my.library)
2 ...
```

Including another namespace:

```
1 (ns my.library
2 (:require [other.library :as other]))
3 ...
```

ClojureScript versus JavaScript – no variable hoisting

This actually does something in JavaScript other than raise an error, which is probably not what you want:

```
1 function printName() {
2   console.log('Hello, ' + name);
3   var name = 'Bob';
4 }
```

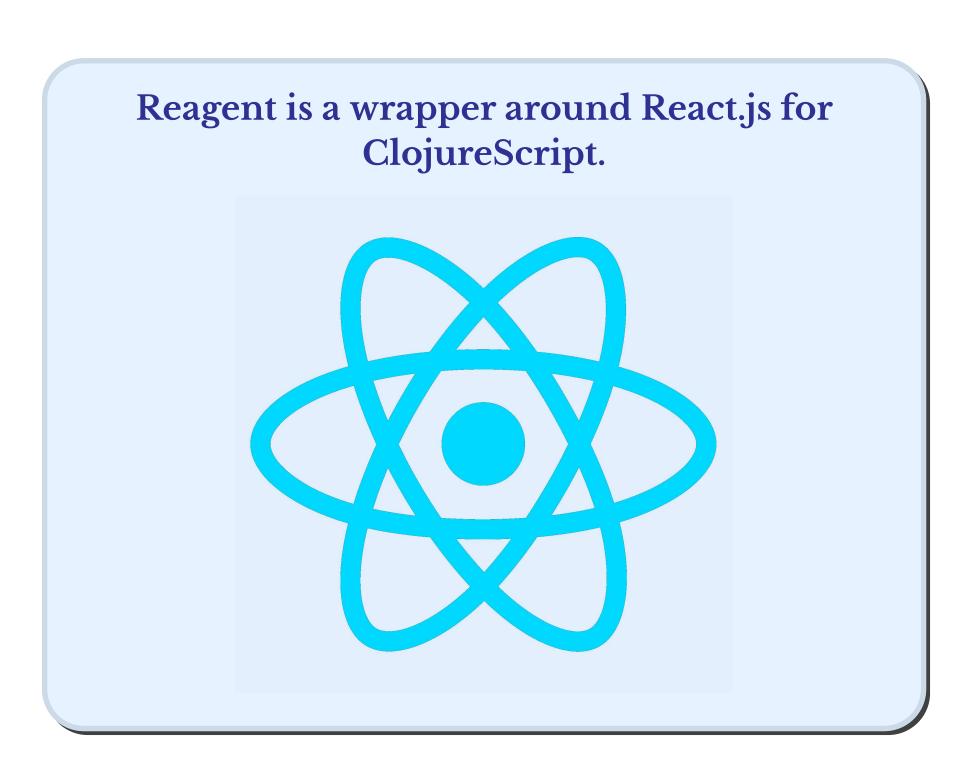
ClojureScript versus JavaScript – destructuring binds

ClojureScript versus JavaScript – arbitrary keys for hash maps

There's lots of other differences too, but they are mostly opinionated things.

- Immutable collections
- Simpler Boolean system
- Optional parameters and arity
- Lazy evaluation

• ...



Why do we want to use React.js?

- React.js comes out of Facebook originally, but is used everywhere now.
- React.js dates back to 2011.
- React.js is good at creating user interfaces.
- If you are used to MVC, React.js is the V.

Conclusion

Questions?