



# React & Flux

Developing stateful JavaScript applications with  
React.js library and Flux application architecture

Lukáš Vlček  
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# React

JS library by Facebook (Instagram)

<https://facebook.github.io/react/>

For building visual interfaces

# Hello-World

<http://facebook.github.io/react/docs/getting-started.html>

# JSX

<http://facebook.github.io/react/docs/jsx-in-depth.html>

Does not have to be used  
(matter of taste)

# Virtual DOM

- 1) Generate whole app DOM with every single change
- 2) Do DIFF with actual DOM
- 3) Change only what is needed for transition between states  
(with optimizations)

# Not everything is cheap

Some complexity can get in when  
interacting with a real DOM  
(necessary compromise)

Animations or draggable  
(possible but you can shop elsewhere)

Fortunately it is simple to integrate with  
other libs

# Revolutionary?

The idea is probably not genuine  
(one example: CodeMirror)

<http://marijnhaberbeke.nl/blog/display-updates-in-codemirror.html>

But very well put together  
(good timing)

Changing how developers can think  
about UI development

# Data Flow

(Re)Think about data flow in your app!

And put it into good order

Stick to it  
(there can be exceptions)



# Think!

Don't drink and drive!

Don't code without thinking!

<http://www.ybrikman.com/writing/2014/05/19/dont-learn-to-code-learn-to-think/>

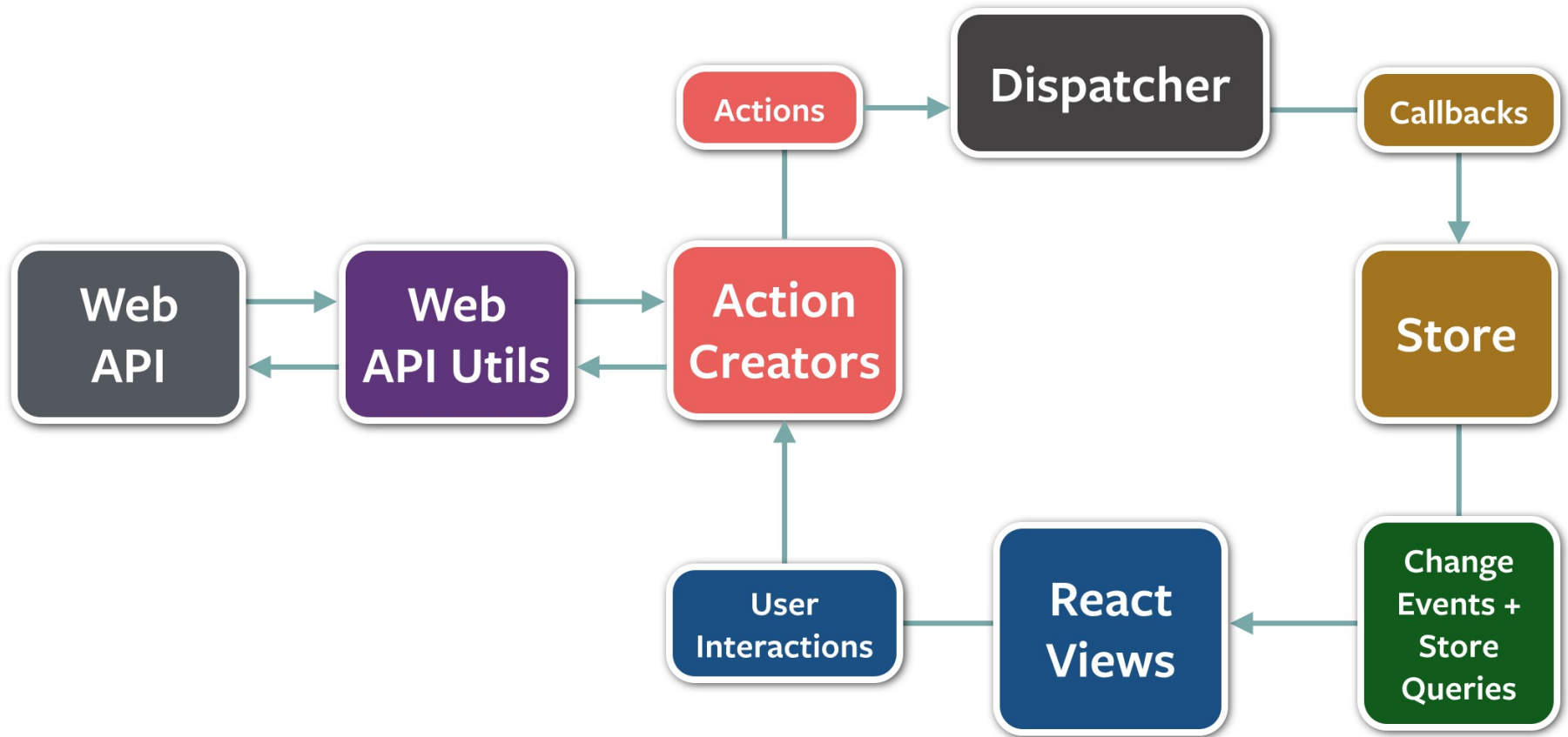
# Flux

System Architecture pattern

How to avoid event chains hell

Many come up with Flux clones or  
different approaches

# Flux



# Flux

<https://github.com/facebook/flux>

<https://facebook.github.io/flux/docs/overview.html>

<http://www.code-experience.com/async-requests-with-react-js-and-flux-revisited/>

# React Starter Kit

<https://github.com/kriasoft/react-starter-kit>

# Este.js

<https://github.com/Steida/este>

The END!

It is sunny day

Go out

Enjoy life!