

Flux

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- ▶ open sourced by Facebook
- ▶ not a library, a technique like MVC
- ▶ suitable for bigger applications

When is Flux a good idea?

- ▶ Too deep level in React hierarchy
- ▶ Need to pass props to the bottom too much
- ▶ Two components not having a single parent, but want to sync state

- ▶ Enclose the domain logic
- ▶ Act as event emitters
- ▶ Emits a change event whenever it changes
- ▶ Simple version, not Flux: No actions
- ▶ React component intercepts the events, forwards them to store
- ▶ React component subscribe to store events
- ▶ React component syncs its state with store

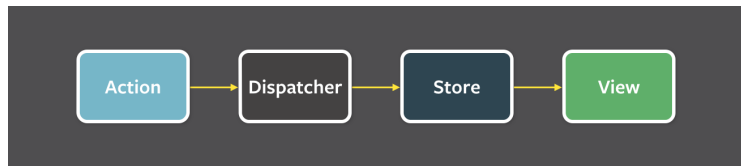
Actions

- ▶ As apps get big, react component should not call store directly
- ▶ Instead a level of indirection
- ▶ React components intercept events
- ▶ Forward them to dispatcher as events

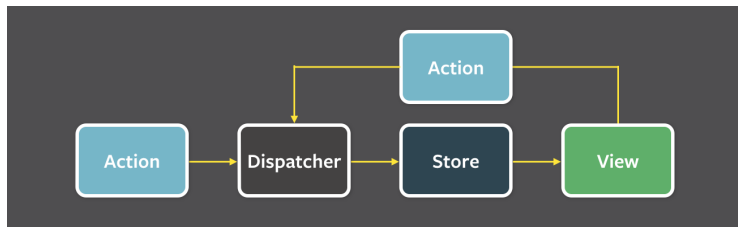
Dispatcher

- ▶ Dispatcher broadcasts events to all stores
- ▶ Stores decide which events they are interested in
- ▶ They decide accordingly and emit a change event
- ▶ React components sync accordingly

Flux Architecture (1/3)

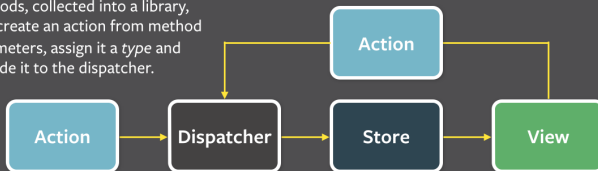


Flux Architecture (2/3)



Flux Architecture (3/3)

Action creators are helper methods, collected into a library, that create an action from method parameters, assign it a *type* and provide it to the dispatcher.



Every action is sent to all stores via the *callbacks* the stores register with the dispatcher.

After stores update themselves in response to an action, they emit a *change* event.

Special views called *controller-views*, listen for *change* events, retrieve the new data from the stores and provide the new data to the entire tree of their child views.

► *Demo*