

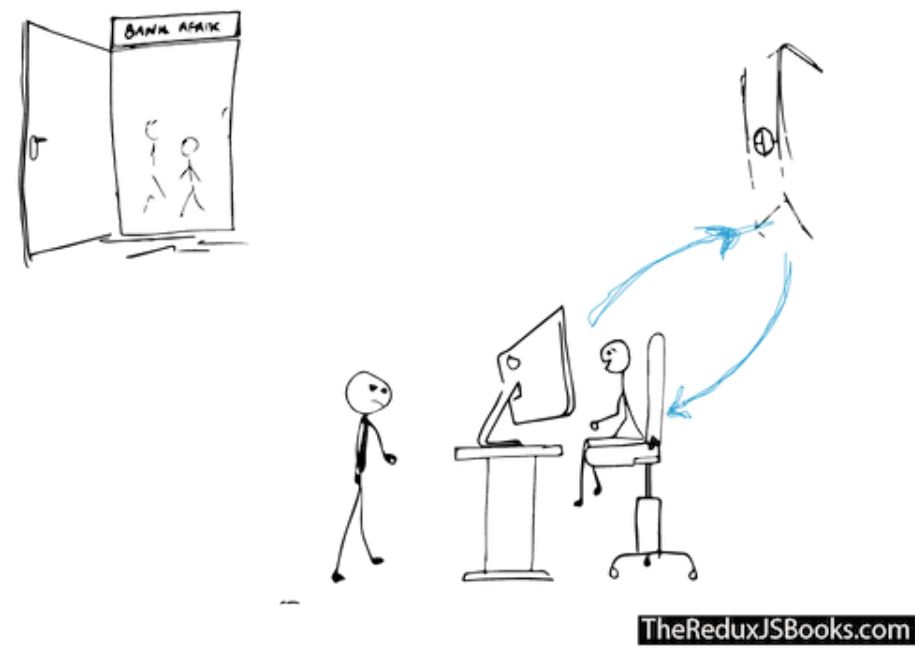
Redux Reducer

The last primary actor in Redux is the Reducer. In terms of our money withdrawal example, it is equivalent to the Cashier i. e. it interprets our actions and manipulates the app based on them.

Alright, take a step back.

Remember that in the story above, you couldn't just go straight into the bank vault to retrieve your money from the bank. No. You had to see the Cashier first.

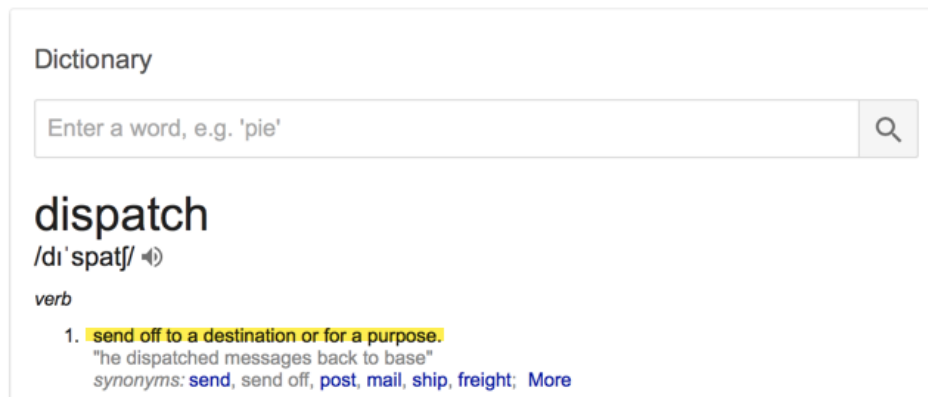
Well, you had an action in mind, but you had to convey that action to someone, the Cashier, which in turn communicated (in whatever way they did) with the vault that holds all of the bank's money.



The same may be said for Redux.

Like you made your action known to the Cashier, you have to do the same in your Redux application. If you want to update the state of your application, you convey your ACTION to the REDUCER - our own Cashier.

This process is mostly called DISPATCHING an ACTION.



Dispatch is just an English word. In this example, and in the Redux world, it is used to mean sending off the action to the reducers.

The REDUCER knows what to do. In this example, It will take your action to **WITHDRAW_MONEY** and ensure you get your MONEY.

In Redux terms, the money you spend is your STATE. So, your reducer knows what to do, and it always returns your NEW STATE.

Hmmm. That wasn't so hard to grasp, right?

And this leads to the last Redux principle:

To specify how the state tree is transformed by actions, you write pure reducers.

As we proceed, I'll explain what a "pure" reducer means. For now, what's important is to understand that, to update the state of your application (like you do with `setState` in React,) your actions must always be sent off (DISPATCHED) to the reducers to get your NEW STATE.



The Redux principle #3.

To specify how the state tree is transformed by actions, you write pure reducers.

<https://TheReduxJSBooks.com>

With this analogy, you should now have an idea of what the most important Redux actors are: THE STORE, THE REDUCER, and an ACTION.

These three actors are pivotal to any Redux application. Once you understand how they work, the bulk of the deed is done.

Next, we'll take a look at some of the Redux apps which will appear in this course.