

State and Subscriptions

State can be thought of as a client-side database

- It is the single source of truth for all data.
- You only read it from the store.
- You only change it through the store

We should set the initial state when we're creating the store.

```
const initialState = {  
  first: "Jo",  
  last: "Bennett",  
  city: "Tallahassee",  
  state: "Florida"  
}  
  
export const store =  
  createStore(reducer, initialState);
```

- This method is self-documenting.

Hands-on state



What should go in state and what should not?

- Does the data change?
- Should the data be the same between pages/views?
- Should the data be the same when you refresh this page/view?
- If all are yes, then it goes in state. If not, no.

Subscriptions

When state changes, we should redraw the UI

- Different data => different display
- Should we call a redraw() UI function?
- What if we have to change 2 things upon a data change?
- 20?
- 200?
- Do we really want to keep track of all of that?

We can subscribe to every state change

- We know we'll always dispatch an action to change state
- Redux allows us to register X functions to run every time state is changed through a dispatch:
- In the UI:

```
store.subscribe(redraw);  
function redraw() {  
  // Logic to re-render the UI goes here  
}
```

Redux keeps track of all subscriptions no matter where they were registered

- So, you can subscribe in lots of places in the UI and Redux fires them all when the state changes.
- And it doesn't have to be just the UI. Register any function that needs to run when state changes.
 - Upload data to a server
 - Save to local storage
 - Push it through a socket to another client
 - Etc.

Hands-on subscriptions

