

redux-thunk

With a plain basic Redux store, you can only do simple synchronous updates by dispatching an action. Middleware extend the store's abilities, and let you write async logic that interacts with the store.

Thunks are the recommended middleware for basic Redux side effects logic, including complex synchronous logic that needs access to the store, and simple async logic like AJAX requests.

```
const INCREMENT_COUNTER = 'INCREMENT_COUNTER';

function increment() {
  return {
    type: INCREMENT_COUNTER,
  };
}

function incrementAsync() {
  return (dispatch) => {
    setTimeout(() => {
      // Yay! Can invoke sync or async actions with
      `dispatch`
      dispatch(increment());
    }, 1000);
  };
}
```

- Fetch todos
- Add todo
- Bonus: Handle error
- Bonus Bonus: optimistic update