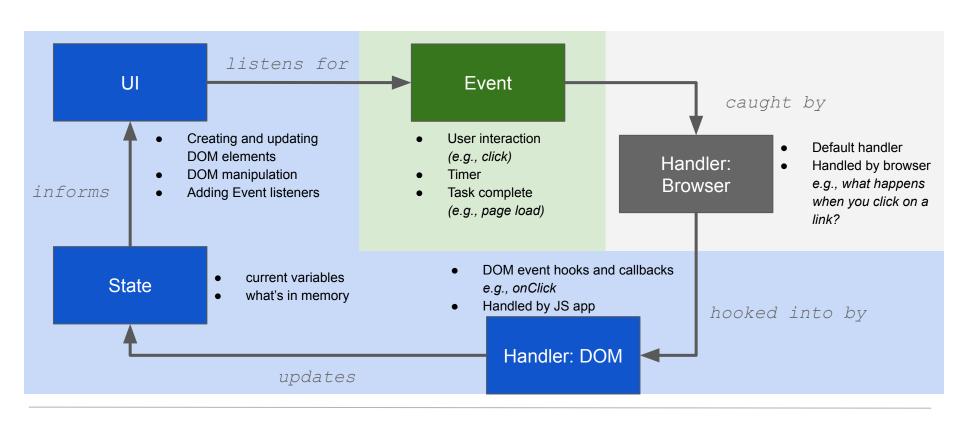


Event loop

Handling user interaction



Event loop

Who has control?

Our application:

- Javascript
- HTML
- CSS

- User
- Timer
- External data sources
- Browser

Browser

State

Three levels of state

01

In memory

- Variables in Javascript
- Data attributes on elements
- 1. Very volatile
- 2. Quick to access
- Won't persist over a page load
- 4. Short term

02

Browser API

- localStorage
- sessionStorage
- indexedDB
- Cookies
- Cache API
- Persist over page load
- 2. Stuck in browser

03

Remote

- Server-side file storage
- MySQL
- MongoDB
- Over internet (not stuck in browser)
- 2. "Slow" to access
- 3. Long term

State

Uses for each level

01

In memory

Application State:

- variables
- Data attributes
- React Context
- Redux

02

Browser API

Application State:

- localStorage
- indexedDB

Session State:

- sessionStorage
- Cookies

Resource State:

Cache API

03

Remote

Session State:

Database

Resource State:

Files