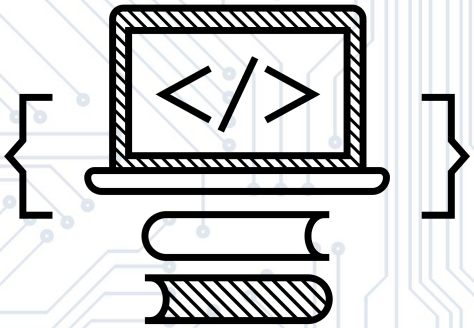

Web APIs, Event Loop and State

Web Development

Lesson 4.1

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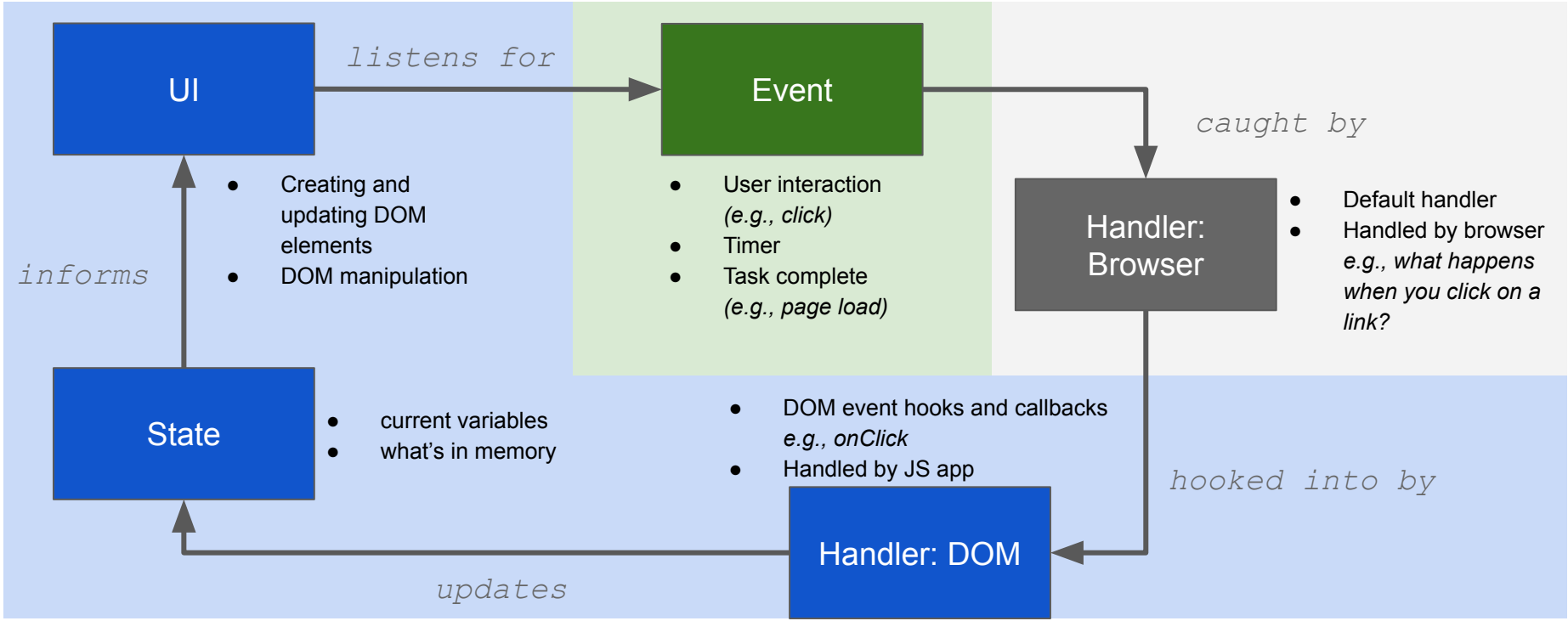
Event loop

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

1. *Very volatile*
2. *Quick to access*
3. *Won't persist over a page load*
4. *Short term*

02

Browser API

- localStorage
- sessionStorage
- indexedDB
- Cookies
- Cache API

1. *Persist over page load*
2. *Stuck in browser*

03

Remote

- Server-side file storage
- MySQL
- MongoDB

1. *Over internet (not stuck in browser)*
2. *"Slow" to access*
3. *Long term*

State

Uses for each level

01

In memory

Application State:
- variables

02

Browser API

Application State:
- localStorage
- indexedDB

Session State:
- sessionStorage
- Cookies

Resource State:
- Cache API

03

Remote

Session State:
- Database

Resource State:
- Files