

Your Next Week

Tuesday May 5

6:30 PM

- **DUE Class 15 Lab**
- **DUE Class 16 Reading**
- Class 16A

Wednesday May 6

6:30 PM

- Class 16B

MIDNIGHT

- **DUE Class 16 Learning Journal**

Thursday May 7

6:30 PM

- Co-working

Friday May 8

Saturday May 9

6:30 PM

- **DUE Class 16 Code Challenge**
- **DUE Class 16 Lab**
- **DUE Class 17 Reading**
- Class 17
- Interview Prep 03

MIDNIGHT

- **DUE Class 17 Learning Journal**

Sunday May 10

MIDNIGHT

- Class 16-17 Feedback

Monday May 11

Tuesday May 12

6:30 PM

- **DUE Class 17 Code Challenge**
- **DUE Class 17 Lab**
- **DUE Class 18 Reading**
- Class 18A

What We've Covered

Module 01

Javascript Fundamentals and Data Models

C01 — Node Ecosystem, TDD, CI/CD

C02 — Classes, Inheritance, Functional Programming

C03 — Data Modeling & NoSQL Databases

C04 — Advanced Mongo/Mongoose

C05 — DSA: Linked Lists

Module 02

API Servers

C06 — HTTP and REST

C07 — Express

C08 — Express Routing & Connected API

C09 — API Server

C11 — DSA: Stacks and Queues

Module 03

Auth/Auth

C10 — Authentication

C12 — OAuth

C13 — Bearer Authorization

C14 — Access Control (ACL)

C15 — DSA: Trees

Module 04

Realtime

C16 — Event Driven Applications

C17 — TCP Server

C18 — Socket.io

C19 — Message Queues

C20 — Midterms Prep

Midterms

Module 05

React Basics

C21 — Component Based UI

C22 — React Testing and Deployment

C23 — Props and State

C24 — Routing and Component Composition

C25 — DSA: Sorting and HashTables

Module 06

Advanced React

C26 — Hooks API

C27 — Custom Hooks

C28 — Context API

C29 — Application State with Redux

C30 — DSA: Graphs

Module 07

Redux State Management

C31 — Combined Reducers

C32 — Asynchronous Actions

C33 — Additional Topics

C34 — React Native

C35 — DSA: Review

Module 08

UI Frameworks

C36 — Gatsby and Next

C37 — JavaScript Frameworks

C38 — Finals Prep

Finals

Lab 15 Review

Class 16

Event Driven Applications

seattle-javascript-401n16

What is an Event?

- A signal that something happened
 - Someone clicked a button, pressed a key, etc.
- Events are system-wide or application-wide
- They are raised/triggered/**emitted**
- Anywhere in the application (or system) you can **listen** for events and respond to them



Listeners and Handlers

- Events by themselves don't do anything
 - Like a person shouting in a forest. If no one is there to hear it...did they make a sound?
- If we care about an event, we create a **listener**
- The listener runs a **handler** function when it "hears" an event
- There can be multiple listeners for an event!



You might be familiar with...

```
<form onsubmit="handleSubmit(event)"></form>
```

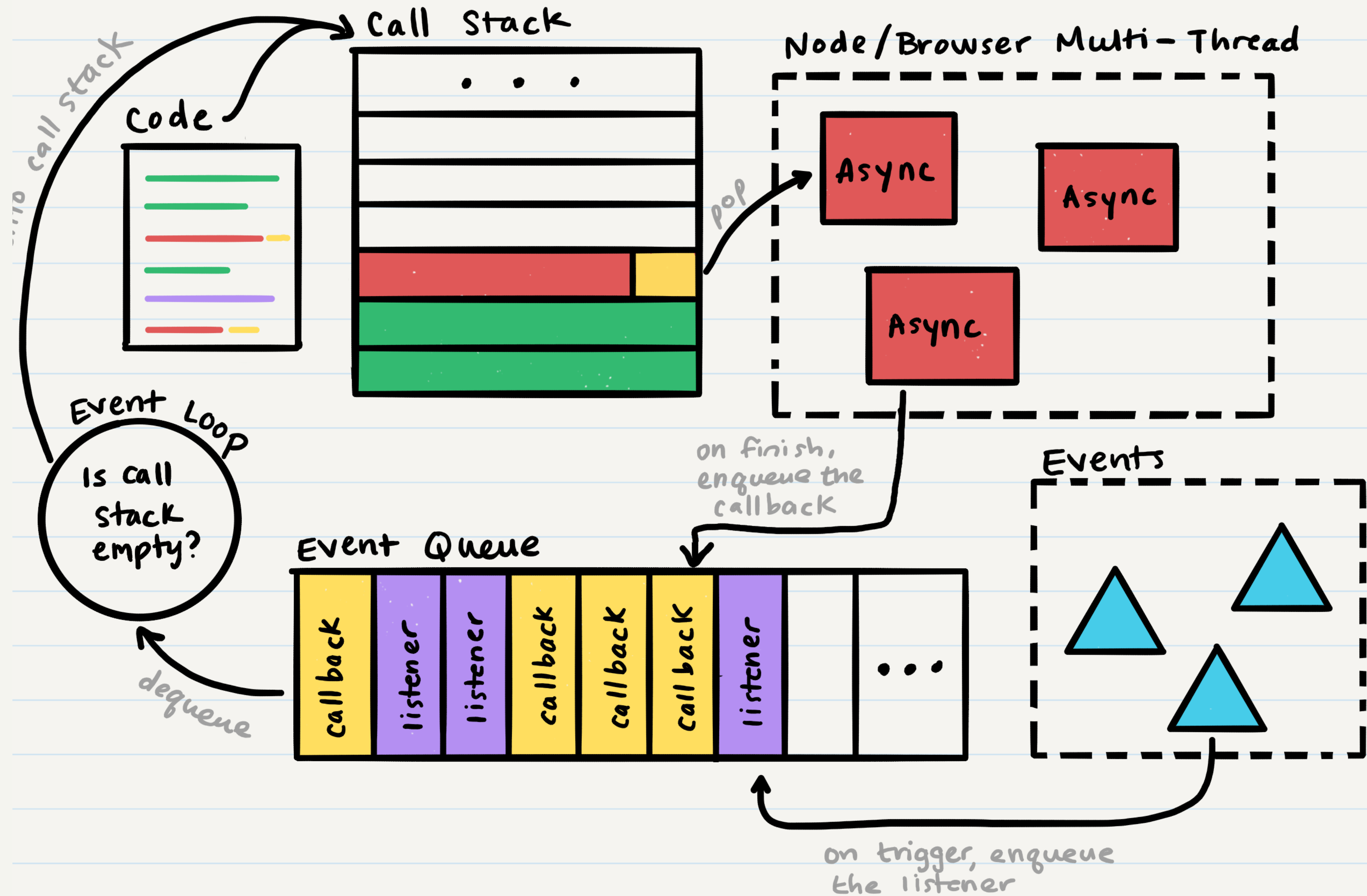
```
<button onclick="handleClick(event)"></button>
```

```
window.addEventListener("resize", function() {} );
```

```
$( "#my-btn" ).click(function() {} );
```

These are **listeners** and **handlers**!





Lab 16 Overview