

Class 15

Event-Driven

Applications

seattle-javascript-401n14

Lab 14 Review



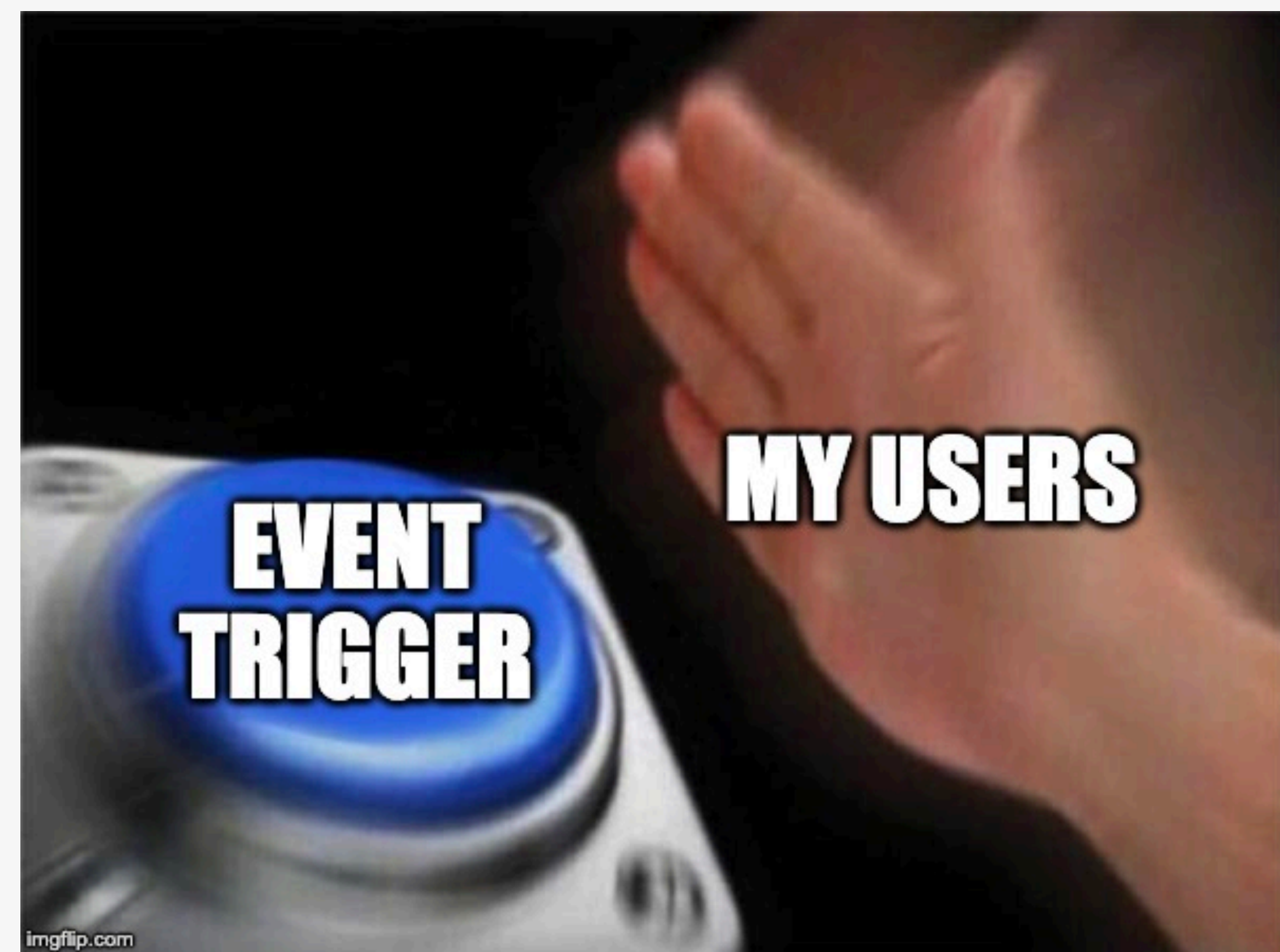
Code Challenge 14

Review



What is an **Event**?

- A signal that something happened
- Someone clicked a button, pressed a key
- Events are system-wide or application-wide
- Events are “raised”, “triggered” or “**emitted**”



Listeners and Handlers

- Events by themselves don't do anything
 - It's like a person shouting in a forest. If no one is there to hear it...
- If we care about an event, we need to create a **listener** for it
- The listener is set to run a **handler function** whenever it "hears" an event
- There can be multiple listeners per event



You might be familiar with...

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

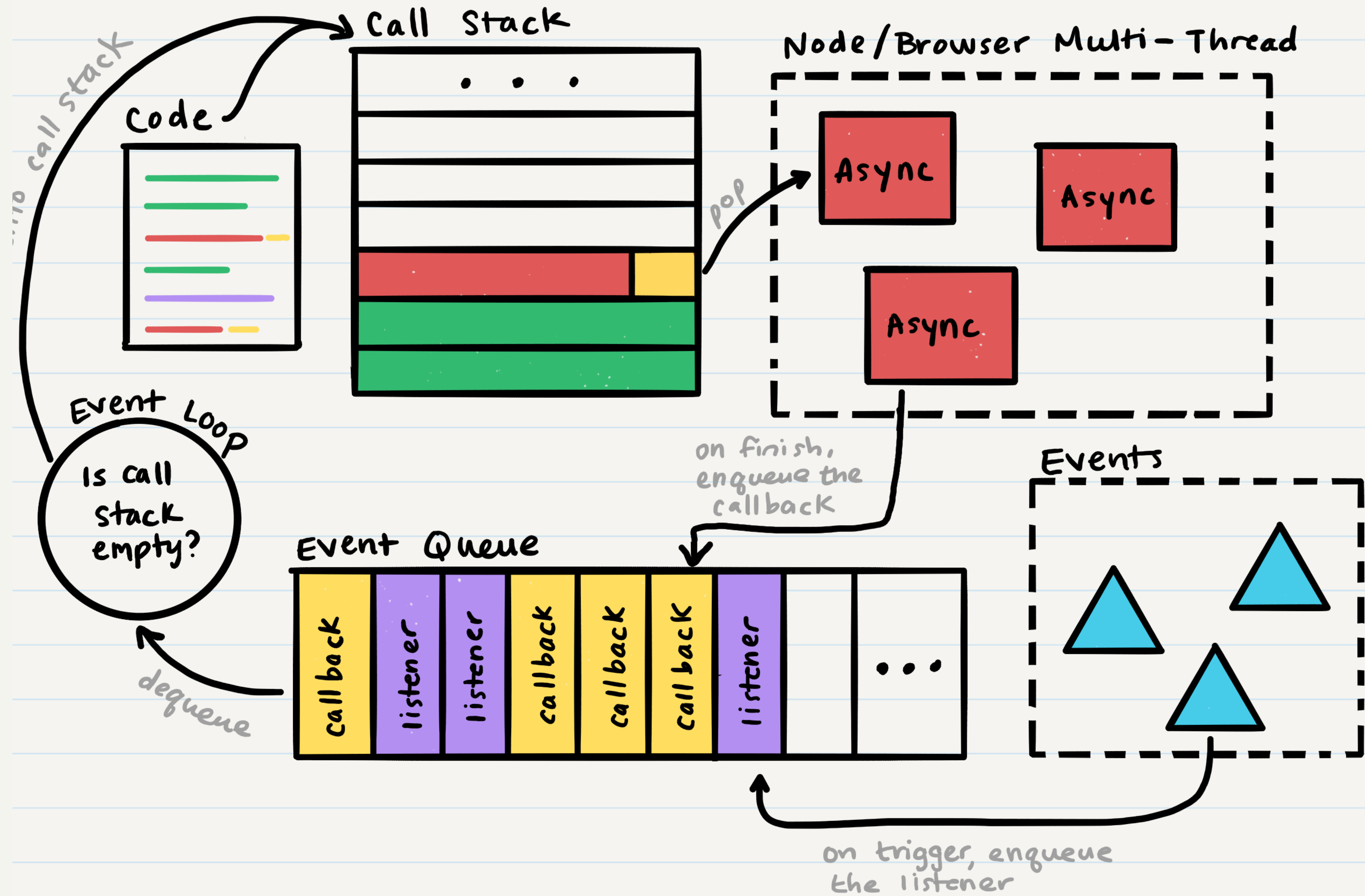
```
<button onclick="handleClick(event)"></button>
```

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

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

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





Events in Node

- We can create our own events and listeners using the Node `events` module
- This module exposes a class `EventEmitter`
- We make one object from this class and use the same object throughout our application
- Multiple `EventEmitter` objects in one application won't be able to share events with one another
- Events should be system-wide or **application-wide**



Demo

demo/events

Let's get some hands on experience with making our own events and event listeners using the Node `events` module



What's Next:

- Due by Midnight Tonight:
 - **Learning Journal 15**
- Due by Midnight Sunday:
 - **Career Coaching Assignments**
 - **Feedback Week 08**
- Due by Midnight Monday
 - **Code Challenge 15**
- Due by 6:30pm Tuesday
 - **Reading Class 16**
 - **Lab 15**
- Next Class: **Class 16 - TCP Protocol**





Questions?

