EVENT LISTENERS AND HANDLERS

Listen up

♦ FULLSTACK

EVENTS

EVENT HANDLERS

```
element.addEventListener('click', function (event) {
    // Run this code on click
});
```

- JS that handles things that happen in the DOM
- Event examples:
 - click
 - (form) submit
 - mouseover
 - scroll

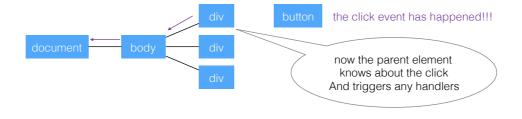
♦ FULLSTACK

2

EVENTS

EVENT PROPAGATION/BUBBLING

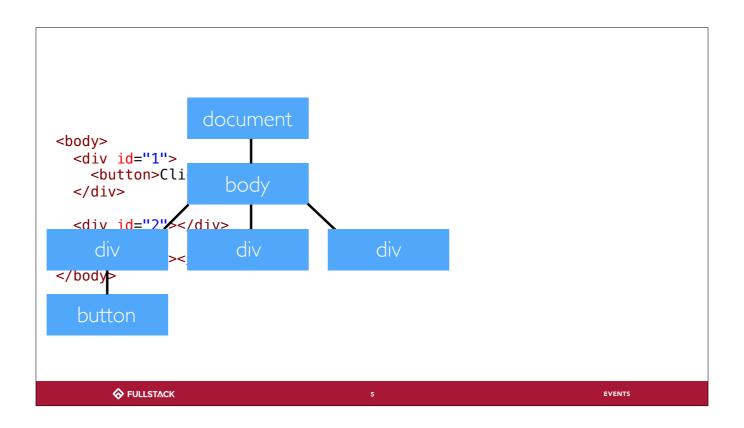
- An event is directed to its intended target
- If there is an event handler it is triggered
- From here, the **event** bubbles up to the containing elements
- This continues to the document element itself

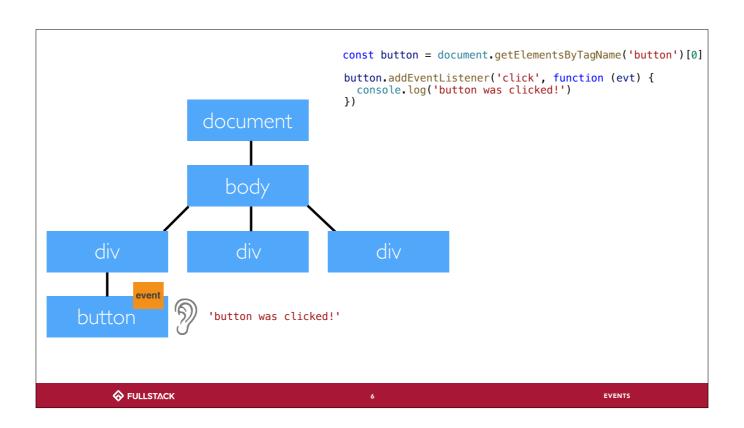


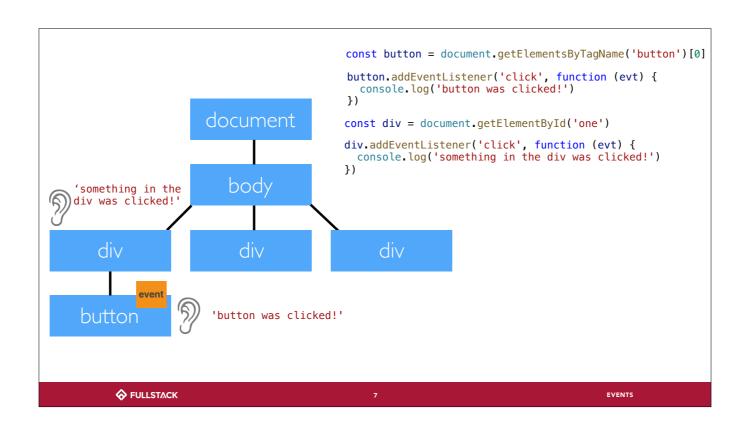
♦ FULLSTACK 3 EVENTS

```
<body>
    <div id="1">
        <button>Click Me</button>
    </div>
    <div id="2"></div>
    <div id="3"></div>
    </body>
```

♦ FULLSTACK 4 EVENTS

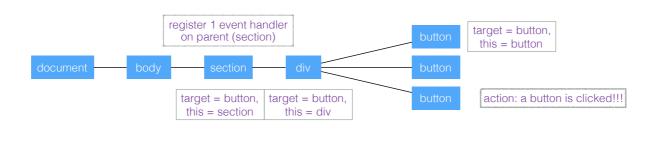






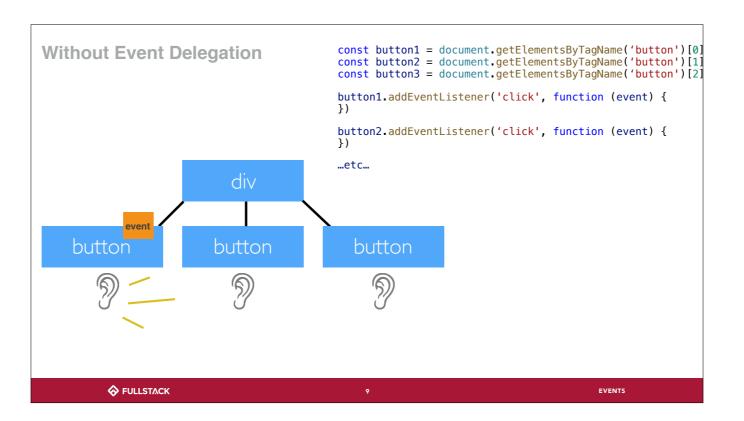
EVENT DELEGATION

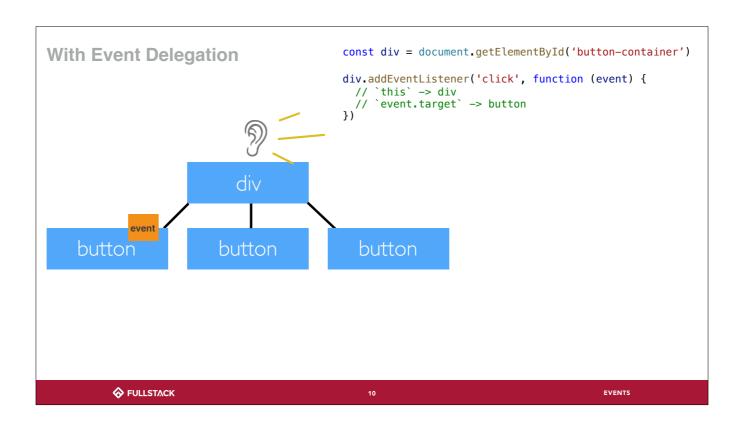
- The process of using event propagation to handle events at a higher level in the DOM
- Allows for a single event listener

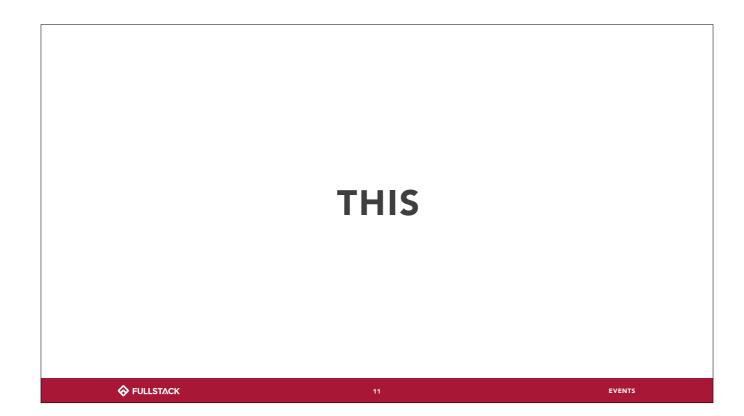


♦ FULLSTACK

EVENTS







THIS

- ...is the "context" for a function.
- ...is determined when a function is invoked, not when it is defined (exception: arrow functions).

To determine what `this` is for any function, take a look at its *call-site*.

♦ FULLSTACK 12 EVENTS

TYPES OF CONTEXT BINDING AND CALL-SITE

```
Default binding: func();
Implicit binding: obj.func();
Explicit binding: func.call(obj);
"new" binding: new func();
```

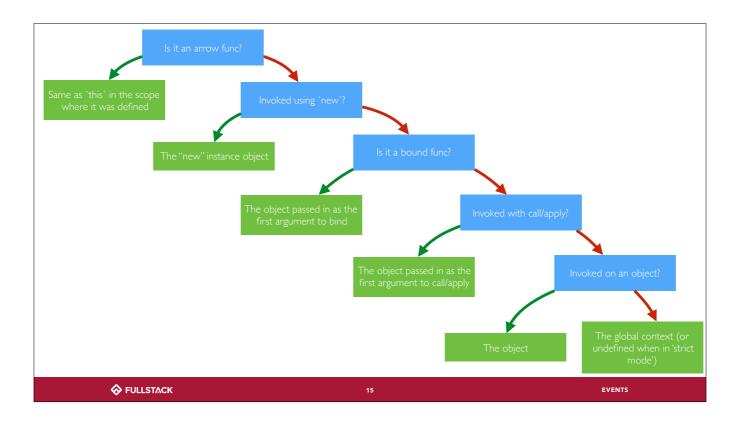
♦ FULLSTACK

THE .BIND METHOD

- Requires one argument, a `thisArg`.
- Returns a new function whose `this` is always the thisArg.
- Does not invoke the function.

```
const boundFunc = oldFunc.bind(thisArg);
boundFunc(); //invoked with thisArg as `this`
```

♦ FULLSTACK 14 EVENTS





WORKSHOP TIME

♦ FULLSTACK

EVENTS