0:01 Alright, let's take a look at how you would use JavaScript with HTML. You can put your JavaScript internally into your HTML by putting the code inside of script tags.

0:16 Here you'll see you can see that it's inside of the head section of our HTML. my mom. You can also put it at the bottom of your page right before the ending body tag as well.

0:29 External is the best way to do it. So to have an extra different JavaScript file that you would link up externally to the HTML.

0:38 Here's a you can see you still have those script tags, but you are using just the source or SRC attribute to put a pathway or in the name and the name of the JavaScript file in there.

0:51 Notice the also the attribute keyboard defer. Which means for it to wait to read the JavaScript and tell the HTML page has loaded.

1:01 Here you can see the same thing at the bottom of the HTML right before they have any body tag. And at this point you do not need the defer attribute.

1:11 Because it will have already gone through the HTML before it gets to the JavaScript any way at this point. Why do we have to use an external file?

1:20 Because it's considered best practice to rather than doing it internally inside of your JavaScript. It's good to have those separated out.

1:29 It's going to maintain a clean separation between all three of the purposes, the HTML structure, CSS presentation, and the JavaScript behavior.

1:39 It's easier to read, debug, and maintain this way. And you can use this JavaScript file across multiple pages. It's going to help reduce any redundancy that you might have.

1:53 All right, let's take a look at an example. Here, and we have a button that says click me, and the script or the JavaScript that's going to run will run this function, say hello.

2:05 When it's clicked, it opens up an alert box, an alert window, and you can click OK to close it. Notice the script is there in the head section, and we should be putting that in a separate file.

2:19 So we're going to go ahead and do that. We're going to take the script that's inside the script tags and put it inside this JavaScript.

2:29 Now we can use those same script tags to just reference where that JavaScript file is and what it's called. So the same levels, we'll just put main.js.

2:44 And now when the button is clicked, it still works just the same. It's going to bring up that alert that says hello world.

2:51 But one thing that's wrong here is that we should not have any sort of call to a function inside HTML.

2:59 It's like, hmmm. We're having internal CSS inside your HTML. You really should be keeping that separate. It's going to be hard for someone maintaining later to know where that function got called.

3:09 So it really is important to put a call to the function within the JavaScript in order to. That in this case, we're going to have to reference that button.

3:20 And find, use, uhm, some JavaScript to reference where the button is in our HTML. And then we can take that button and listen.

3:32 For a click, just like the on click inside the HTML was working, we would put click here, and then we would call the function say hello.

3:42 And that's the idea. But now when we go to click, it doesn't work. So if we go in and look at our dev tools and go to the console tab, we can see what's happening.

3:57 It says cannot read a property of no with ad event listener. It's trying to find button, but it cannot find it.

4:04 So it's never going to be able to add that event listener or listen for a clip. That's because the JavaScript is getting read before it even gets to the HTML.

4:13 So it's being read before it's even seen the button. That is why we need that defer attribute. So that it will wait to run this JavaScript until after it's seen the HTML.

4:24 Therefore, it will then see that button and work just fine. If you had your script reference down at the bottom, them.

4:36 Um, before the Anybody tag, you wouldn't need to defer because it's gonna go in order as it goes down your HTML and it will see that button before it gets to the JavaScript.

4:44 So there's a little bit of difference with where you can place it in your, in your HTML. And that point, it works with- without the differ.

4:56 Okay, so there we can see a little bit about how you can use JavaScript with your HTML file. Now.