JavaScript

Accordion Project from Scratch

LAURENCE SVEKIS



- Over 300 courses in technology and web applications.
- 20 years of JavaScript web programming experience
- 500,000+ students across multiple platforms
- Digital instructor since 2002

READY TO HELP YOU LEARN and ANSWER ANY questions you may have.

Course instructor: Laurence Svekis

Setup HTML for the Accordion

Accordion typically contains a list of panels that open and close.

The panels are HTML and open closs is done with JavaScript. Panels have a head which is always showing and body which is toggled to show or not.

Panel 1 Head Panel 1 Body Content Panel 2 Head Panel 2 Body Content Panel 3 Head Panel 3 Body Content

EXERCISE:

1. Create the HTML structure for your accordion, content of head and body.

Setup CSS for the Accordion

Setup styling classes to hide body by default, the default state when the accordion loads. Also add option to apply class and show body with active class. This will make it easier with JavaScript to open the body content. Notice that when you add the class of active to the panel it shows.

Panel 1 Head

Panel 2 Head

Panel 3 Head

```
<style>
      .main .abody {
            padding: 5px;
            border: 1px solid #eee;
            display: none;
      .main .active .abody {
            display: block;
      .main .ahead {
            background-color: #333;
            padding: 5px;
            font-size: 1.6em;
            margin: 5px 0;
            color: white;
</style>
```

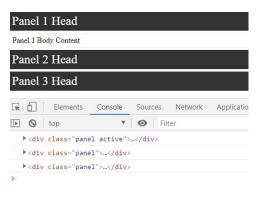
EXERCISE:

1. Create style content for html elements

Accordion Interactions JavaScript

Select all the panels in the accordion as one JavaScript Object.

The Document method **querySelectorAll()** returns a static (not live) NodeList representing a list of the document's elements that match the specified group of selectors.



```
<script>
    const accordion = document.querySelectorAll('.panel');
    accordion.forEach(function (ele) {
        console.log(ele);
    })
</script>
```

EXERCISE:

- 1. Using JavaScript select all elements that have a class panel.
- 2. Output into the console.

Accordion JavaScript Event

The EventTarget method addEventListener() sets up a function that will be called whenever the specified event is delivered to the target.

https://developer.mozilla.org/en-US/docs/Web/API/EventTarget/addEventListener

Pass the event object, notice the difference of output for e, this and e.target.



```
<script>
    const accordion = document.querySelectorAll('.panel');
    accordion.forEach(function (ele) {
        console.log(ele);
        ele.addEventListener('click', toggleEle);
})

function toggleEle(e) {
        console.log(e);
        console.log(this);
        console.log(e.target);
}

</script>
```

EXERCISE:

Add EventListener to the envoke toggle function

Toggle Active

The Element.classList is a read-only property that returns a live DOMTokenList collection of the class attributes of the element. This can then be used to manipulate the class list.

https://developer.mozilla.org/en-US/docs/Web/API/Element/classList

Panel 1 Head

Panel 1 Body Content

Panel 2 Head

Panel 2 Body Content

Panel 3 Head

Panel 3 Body Content

```
<script>
    const accordion = document.querySelectorAll('.panel');
    accordion.forEach(function (ele) {
        ele.addEventListener('click', toggleEle);
    })
    function toggleEle(e) {
        this.classList.toggle('active');
    }
</script>
```

EXERCISE:

 Toggle the classlist add/remove active to hide and show the panel body contents.

Hide all open panels

You already have the panel elements in the accordion so you can use this list of elements, iterate through it and remove class of active from all.

Other options, select all the active elements on the page using querySelector and then remove the active class.

EXERCISE:

1. Find all elements with the active class and remove active from the panels

```
<script>
      const accordion = document.querySelectorAll('.panel');
      accordion.forEach(function (ele) {
            console.log(ele);
            ele.addEventListener('click', toggleEle);
      })
      function toggleEle(e) {
            const allActives =
document.querySelectorAll('.active');
            allActives.forEach(function (ele) {
                        ele.classList.remove('active');
         /* accordion.forEach(function (ele) {
             ele.classList.remove('active');
            })*/
            this.classList.toggle('active');
</script>
```

Finishing Touches

Apply some styling to the active element to differentiate from others.

EXERCISE:

Apply styling and content as needed.

Panel 1 Head

Panel 1 Body Content

Panel 2 Head

Panel 3 Head

```
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```

```
<style>
      .main .abody {
            padding: 5px;
            border: 1px solid #eee;
            display: none;
      .main .active .abody {
            display: block;
      .main .ahead {
            background-color: #333;
            padding: 5px;
            font-size: 1.6em;
            margin: 5px 0;
            color: white;
      .main .active .ahead {
              background-color: #bbb;
</style>
```

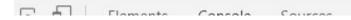
Final Code

Panel 1 Head

Panel 1 Body Content

Panel 2 Head

Panel 3 Head



```
<script>
 const accordion = document.querySelectorAll('.panel');
  //console.log(accordion);
  accordion.forEach(function (ele) {
   //console.log(ele);
   ele.addEventListener('click', toggleEle);
 })
  function toggleEle(e) {
   console.log(e.target.parentElement);
   accordion.forEach(function (ele) {
     if (e.target.parentElement === ele) {
        ele.classList.toggle('active');
      else {
        ele.classList.remove('active');
</script>
```