

The FAQs Web Application

Web Technologies



Lecture by
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```
<!doctype html>
<html>
  <head>
    <title>
      Web Technologies
    </title>
    <style>
      p {
        color: blue;
      }
    </style>
    <script>
      console.log("client-side");
    </script>
  </head>
  <body>
    <p>
      Welcome!
    </p>
  </body>
</html>
```


What we will cover

- **The Frequently Asked Questions application**
 - HTML
 - CSS
 - JavaScript

The FAQs Application

jQuery FAQs

= What is jQuery?

jQuery is a library of the JavaScript functions that you're most likely to need as you develop websites.

+ Why use jQuery?

+ Which is harder to learn: jQuery or JavaScript?

Three Linked Files

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <title>FAQs</title>
  <link rel="stylesheet" href="faq.css">
</head>
<body>
  <main id="faq"> ...
</main>
  <script src="faq.js"></script>
</body>
</html>
```

HTML

```
<main id="faqs">
  <h1>jQuery FAQs</h1>
  <h2><a href="#">What is jQuery?</a></h2>
  <div><p>jQuery is a library of the JavaScript functions that you're most likely
    to need as you develop websites.</p></div>
  <h2><a href="#">Why use jQuery?</a></h2>
  <div>
    <p>Three reasons:</p>
    <ul>
      <li>It's free.</li>
      <li>It lets you get more done in less time.</li>
      <li>It's cross-browser compatible.</li>
    </ul>
  </div>
  <h2><a href="#">Which is harder to learn: jQuery or JavaScript?</a></h2>
  <div><p>For many things, jQuery is easier to learn and use
    than JavaScript. But remember that jQuery is JavaScript.</p></div>
</main>
```

jQuery FAQs

- What is jQuery?

jQuery is a library of the JavaScript functions that you're most likely to need as you develop websites.

+ Why use jQuery?

+ Which is harder to learn: jQuery or JavaScript?

CSS Rule Set For Subheadings

```
h2 {  
    font-size: 120%;  
    padding: .25em 0 .25em 25px;  
    cursor: pointer;  
    background: url(images/plus.png) no-repeat left center;  
}  
h2.minus {  
    background: url(images/minus.png) no-repeat left center;  
}
```

jQuery FAQs

- + What is jQuery?
- + Why use jQuery?
- + Which is harder to learn: jQuery or JavaScript?

CSS Rule Set For Links

```
a {  
    color: ■ black;  
    text-decoration: none;  
}  
a:focus, a:hover {  
    color: ■ blue;  
}
```

jQuery FAQs

- + [What is jQuery?](#)
- + [Why use jQuery?](#)
- + [Which is harder to learn: jQuery or JavaScript?](#)

jQuery FAQs

- + [What is jQuery?](#)
- + [Why use jQuery?](#)
- + [Which is harder to learn: jQuery or JavaScript?](#)

CSS Rule Set For Containers

```
div {  
    display: none;  
}  
div.open {  
    display: block;  
}
```

jQuery FAQs

- + What is jQuery?
- + Why use jQuery?
- + Which is harder to learn: jQuery or JavaScript?

jQuery FAQs

- + What is jQuery?
- Why use jQuery?
 - Three reasons:
 - It's free.
 - It lets you get more done in less time.
 - It's cross-browser compatible.
- + Which is harder to learn: jQuery or JavaScript?

JavaScript 1

```
"use strict";
const clickSub = evt => {
    const h2Element = evt.currentTarget;
    const divElement = h2Element.nextElementSibling;
    h2Element.classList.toggle("minus");
    divElement.classList.toggle("open");
    evt.preventDefault();
};
document.addEventListener("DOMContentLoaded", () => { ...
});
```

JavaScript 2

```
document.addEventListener("DOMContentLoaded", () => {  
  const h2Subs = document.querySelectorAll("#faqs h2");  
  for (let h2E of h2Subs) {  
    h2E.addEventListener("click", clickSub);  
  }  
  h2Subs[0].firstChild.focus();  
});
```

Try It Yourself

In the activity you can practice using HTML, CSS and JavaScript to create a web application. So,

1. Use the code in slides 5-11 to create the FAQs web application.