

Grow with Google: Lesson 20

Event Listeners with jQuery

1. Intro to Event Listening with jQuery

- Automated responses to user actions.

2. What are Browser Events?

- Every action taken is a browser event.
- Chrome includes a `monitorEvents` function for the console.
- [Chrome Monitor Events Docs](#)

3. Quiz: monitorEvents Quiz

- `monitorEvents($0)`
 - `mouseout`
 - `mousemove`
 - `mouseover`

4. Anatomy of a jQuery Event Listener

- Element to listen to.
- Event to react to.
- Actions taken in response.

5. Quiz: jQuery Event Listener Order Quiz

```
$('#Element').on('Event', function() {  
    // Action  
});
```

6. Quiz: jQuery Event Listener

```
$('#my-button').on('click', function() {  
    $('#my-button').remove();  
    $('body').addClass('success');           // Appends the class.  
    //$('body').attr('class', 'success');     // Overrides all classes.  
});
```

- [Benefits of using attr\(\) over addClass in jquery - Stack Overflow](#)

7. The Event Object

- Event object referenced as `e`, `evt`, or `event`.

```
$( 'article' ).on( 'click', function( evt ) { // When an article is clicked,
    $( evt.target ).css( 'background', 'red' ); // Target only the clicked
    on element.
});

$( '#myAnchor' ).on( 'click', function( evt ) {
    evt.preventDefault(); // Prevent default browser
    behavior.
    console.log( 'You clicked a link!' );
});
```

- `event.keyCode` listens to the key pressed.
- `event.pageX` and `event.pageY` listen for where on the page a key is pressed.
- `event.type` listens for which event occurred when tracking multiple events.
- Resources
 - [Event Object | jQuery API Documentation](#)
 - [event.target | jQuery API Documentation](#)
 - [UI Events](#)
 - [DOM Levels | MDN](#)

8. The Convenience Method

- Instead of calling the `on` method, you can use the jQuery Convenience method to call events.
- A limited number of events have jQuery convenience methods.
- [Events | jQuery API Documentation](#)

```
$( 'article' ).click( function() {
    // Do something.
});
```

9. Quiz: Convenience Methods Quiz

- `.hover` is not a shortcut for `.on('hover')`,

10. jQuery's multifunctional `.on` method

- Convenience methods are just one shortcut for the `.on` method.

11. Event Delegation

- What happens when the target element doesn't exist yet?
 - The event listener will not be applied.
- Event delegation also helps consolidate event listeners.
- [Understanding Event Delegation | jQuery Learning Center](#)

```
$( 'article' ).on( 'click', function() {  
    $( 'body' ).addClass( 'selected' );  
});  
  
$( 'body' ).append( '<article> <h1>Appended Article</h1> <p>Content for the new  
article </p> </article>' ); // This will never work because the article didn't  
exist.  
  
// Event Delegation  
  
$( '.container' ).on( 'click', 'article', function() { ... } ); // Watches the  
parent element for clicks on article elements, whether or not they exist.
```

12. Outro

- Listen and respond to user interactions.