



SEARCH



RESOURCES

CONCEPTS

✓ 1. Intro to Event Listening with jQuery

✓ 2. What are Browser Events?

✓ 3. Quiz: monitorEvents Quiz

✓ 4. Anatomy of a jQuery Event Listener

✓ 5. Quiz: jQuery Event Listener Order ...

✓ 6. Quiz: jQuery Event Listener

✓ 7. The Event Object

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✓ 10. jQuery's multifunctional .on met...

✓ 11. Event Delegation

12. Outro

The jQuery event listener examples we've been looking at so far select the target `element` and then attach an event listener to that target directly. But what about when the `element` is created after the event listener is attached? This can happen in a lot of situations. For example, if you have a list of items, and you listen to clicks on any of them, what happens if you add an extra list item after you've already set up the event listener?

Be careful when setting up an event listener and then creating the target item after the event listener is set up.

```
$( 'article' ).on( 'click', function() {  
    $( 'body' ).addClass( 'selected' );  
});  
  
$( 'body' ).append( '<article> <h1>Appended Article</h1> <p>Click me</p>' );
```

Clicking on the "appended" article will not add a class to the body because the "appended" article was created after the event listeners were set up. When we targeted the 'article', it only added the click listener to all `ZERO` of our articles!

But there is a way to make this scenario work by using Event Delegation. We'll listen to the parent element, and pay attention to the target of those events. Event Delegation uses the same code we've been using, but passes an additional argument to the "on" method.

```
$( '.container' ).on( 'click', 'article', function() { ... });
```

...this code tells jQuery to watch the `.container` element for clicks, and then if the click event's target is an `article` element.

Another advantage in using Event Delegation is that you can use it to consolidate many event listeners. For example, what if you had 1,000 list items on a page:

```
<ul id="rooms">  
  <li>Room 1</li>  
  <li>Room 2</li>  
  .  
  .  
  .  
  <li>Room 999</li>  
  <li>Room 1000</li>  
</ul>
```

The following code would set up an event listener for each 1,000 event listeners - item...that's 1,000 event listeners!

```
$( '#rooms li' ).on( 'click', function() {  
    ...  
});
```