

EXAMPLE

JQUERY

This example brings together a number of the techniques you have seen in this chapter to create a list that users can add items to and remove items from.

- Users can add new list items.
- They can also click to indicate that an item is complete (at which point it is moved to the bottom of the list and marked as `complete`).
- Once an item is marked as `complete`, a second click on the item will remove it from the list.

An updated count of the number of items there are in the list will be shown in the heading.

As you will see, the code using jQuery is more compact than it would be if you were writing this example in plain JavaScript, and it will work across browsers even though there is no explicit fallback code.

Because new items can be added to the list, the events are handled using event delegation. When the user clicks anywhere on the `` element, the `.on()` event method handles the event. Inside the event handler, there is a conditional statement to check whether the list item is:

- Not complete – in which case, the click is used to change the item to complete, move it to the bottom of the list, and update the counter.
- Complete – in which case, the second click on the item fades it out and removes it from the list altogether.

The use of conditional statements and custom functions (used for the counter) illustrate how jQuery techniques are used in combination with traditional JavaScript that you have been learning throughout the book.

The appearance and removal of the elements is also animated, and these animations demonstrate how methods can be chained together to create complex interactions based on the same selection of elements.

