Keyboard events in jQuery

Keyboard Events

KeyboardEvent objects encapsulate user interactions with the keyboard, detailing a specific interaction with a key. The event type **(keydown, keypress, or keyup)** signifies the type of keyboard activity, and jQuery differentiates events based on character or physical keys. It's worth noting that keyboard events might not trigger when users input text through alternate methods like tablet handwriting or graphics tablets.

The main keyboard events you need to understand are:

- keydown
- keypress
- keyup

keydown event

The keydown event is initiated the moment a user begins pressing a key, and it doesn't necessitate the keypress to be completed for activation. In fact, if the user holds down a key, the keydown event can fire repeatedly in many instances.

```
$("input").on('keydown', function(){
    $(this).css('background-color', 'pink');
    alert("Keydown event fired !!");
});
```

keypress event

The keypress event is usually activated when a keyboard key is in the process of being pressed down. Using the **keypress() method,** you can link an event handler that triggers when the key is being pressed down, invoking the keypress event. However, when modifier keys like shift, ctrl, or alt are pressed, the event won't be triggered. These modifier keys generate a keydown event but not a keypress event.

```
$("input").keypress(function(){

    $(this).css('background-color', 'pink');

    alert("Keypress event fired !!")

});
```

keyup event

The keyup event, triggered by the **keyup() method in jQuery,** activates when the user releases a key. Notably, this event won't occur until the key is actually released. This stands in contrast to keydown and keypress events which continue to fire as long as a key is held down. The keyup event will only fire once the key is released.

```
$("input").keyup(function(){

    $(this).css('background-color', 'pink');

    alert("keyup event fired !!")
```

```
});
```

Source Code:

```html
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Keyboard Events </title>
    <style>
        .box {
            width: 300px;
            height: 300px;
        }

        #test1 {
            background-color: aqua;
            border: 2px solid black;
        }

        #test2 {
            background-color: green;
        }
    </style>
    <script src="jquery-3.7.1.min.js"></script>
</head>

<body>

    <h1>Keyboard Events in jQuery</h1>
    <div id="test1" class="box">
```

```html
        <h1>Test Box 1</h1>
        <p>Lorem ipsum dolor sit, amet consectetur adipisicing elit. Sint,
error.</p>
    </div>


    <script>
        $(document).ready(function() {

            $('body').keypress(function() {
                $('body').css('background-color', 'red');
            });

            $('body').keydown(function() {
                $('body').css('background-color', 'green');
            });

            $('body').keyup(function() {
                $('body').css('background-color', 'purple');
            });



        });
    </script>
</body>

</html>
```

Thank You