jQuery Class

#jQuery Notes

jQuery Effects

jQuery Effects

- jQuery Show and Hide Effects
- jQuery Fading Effects
- jQuery Sliding Effects
- jQuery Animation Effects
- jQuery Stop Animations
- jQuery Chaining
- jQuery Callback

jQuery Show and Hide Effects

jQuery show() and hide() Methods

- hide() :-
  - This method hides the selected html element.

- show() :-
  - This method displays the selected html element.

Example

<!DOCTYPE html>

<html>

<head>

   <script src="https://code.jquery.com/jquery-1.12.4.min.js"></script>

<script type="text/javascript">

```
 $(document).ready(function(){
    // Hide displayed paragraph
    $(".btn-hide").click(function(){
        $("p").hide();
    });
        // Show hidden paragraph
    $(".btn-show").click(function(){
        $("p").show();
    });
});
```

Cont...

```
</script>

</head>

<body>

        <button type="button" class="btn-hide">Hide</button>

        <button type="button" class="btn-show">Show</button>

         <p>This is a paragraph.</p>

   </body>

</html>
```

jQuery toggle() Method

- The jQuery toggle() method show or hide the elements in such a way that if the element is initially displayed, it will be hidden; if hidden, it will be displayed (i.e. toggles the visibility).
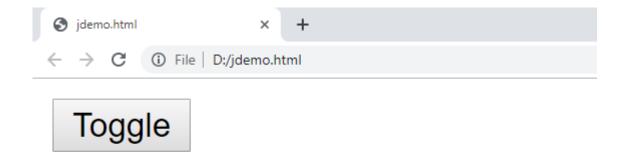
Example

```html
<!DOCTYPE html>
<html>
<head>
    <script src="https://code.jquery.com/jquery-1.12.4.min.js"></script>
        <script type="text/javascript">
            $(document).ready(function(){
             // Toggle paragraph display
        $(".btn-toggle").click(function(){
        $("p").toggle();
            });
            });
        </script>
</head>
<body>
        <button type="button" class="btn-toggle">Toggle</button>
        <p>This is a paragraph.</p>
</body> </html>
```

Example

jQuery Fading Effects

jQuery Fading Effects

- **jQuery fadeIn() and fadeOut() Methods :-**

- The fadeIn() method gradually changes the opacity, for selected elements, from hidden to visible (fading effect).

- The fadeOut() method gradually changes the opacity, for selected elements, from visible to hidden(fading effect).
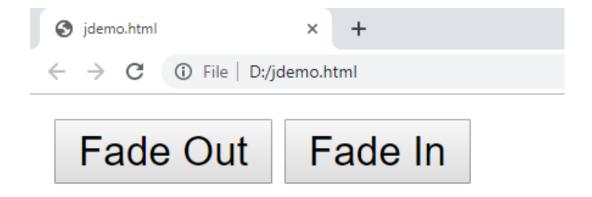
Example

```
<!DOCTYPE html>
<html>
<head>
    <script src="https://code.jquery.com/jquery-1.12.4.min.js"></script>
<script type="text/javascript">
$(document).ready(function(){
    // Fadeing out displayed paragraphs
    $(".btn-fadeout").click(function(){
        $("p").fadeOut();
    });
        // Fading in hidden paragraphs
    $(".btn-fadein").click(function(){
        $("p").fadeIn();
    });
});
```

```
</script>
</head>
<body>
        <button type="button" class="btn-fadeout">Fade Out</button>
         <button type="button" class="btn-fadein">Fade In</button>
        <p>This is a paragraph.</p>
</body>
</html>
```

jQuery fadeToggle() Method

- The jQuery fadeToggle() method display or hide the selected elements by animating their opacity in such a way that if the element is initially displayed, it will be fade out; if hidden, it will be fade in (i.e. toggles the fading effect).
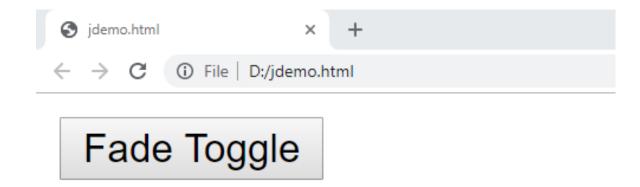
Example

```
<!DOCTYPE html>
<html>
<head>
    <script src="https://code.jquery.com/jquery-1.12.4.min.js"></script>
    <script type="text/javascript">
        $(document).ready(function(){
            // Toggle paragraph display with fading
            $(".btn-toggle").click(function(){
            $("p").fadeToggle();
            });
            });
        </script>
</head>
<body>
        <button type="button" class="btn-toggle">Fade Toggle</button>
        <p>This is a paragraph.</p>
</body> </html>
```

jQuery fadeTo() Method

- The jQuery fadeTo() method is similar to the .fadeIn() method, but unlike .fadeIn() the fadeTo() method lets you fade in the elements to a certain opacity level.

- **$(selector).fadeTo(speed, opacity, callback);**

- The required opacity parameter specifies the final opacity of the target elements that can be a number between 0 and 1
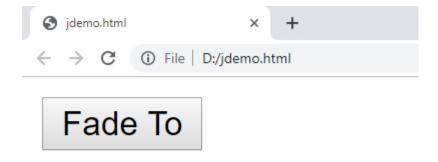
Example

```html
<!DOCTYPE html>
<html>
<head>
    <script src="https://code.jquery.com/jquery-1.12.4.min.js"></script>
        <script type="text/javascript">
             $(document).ready(function(){
            $(".btn-fadeto").click(function(){
             $("p").fadeTo("slow", 0.4);
             });
             });
        </script>
</head>
<body>
        <button type="button" class="btn-fadeto">Fade To</button>
        <p>This is a paragraph.</p>
</body>
</html>
```
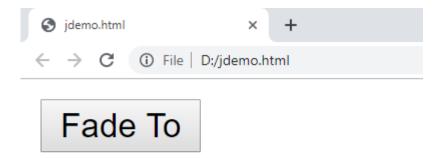
Output

Before Button Click

After Button Click

jQuery Sliding Effects

jQuery Sliding Effects

- jQuery slideUp() and slideDown() Methods

- The jQuery slideUp() and slideDown() methods is used to hide or show the HTML elements by gradually decreasing or increasing their height (i.e. by sliding them up or down).

Example

```
<!DOCTYPE html>
<html>
<head>
    <script src="https://code.jquery.com/jquery-1.12.4.min.js"></script>
    <script type="text/javascript">
            $(document).ready(function(){
              // Slide up displayed paragraphs
            $(".btn-up").click(function(){
                $("p").slideUp();
             });
             // Slide down hidden paragraphs
             $(".btn-down").click(function(){
             $("p").slideDown();
             });
            });
    </script>
```

```
</head>

<body>

    <button type="button" class="btn-up">Slide Up</button>

    <button type="button" class="btn-down">Slide Down</button>

    <p>This is a paragraph.</p>

    <p>This is another paragraph.</p>

</body>

</html>
```

Output

Slide Down Button Click

Slide Up Button Click

jQuery slideToggle() method

- The jQuery slideToggle() method show or hide the selected elements by animating their height in such a way that if the element is initially displayed, it will be slide up; if hidden, it will be slide down.

Example

```html
<!DOCTYPE html>
<html>
<head>
    <script src="https://code.jquery.com/jquery-1.12.4.min.js"></script>
    <script type="text/javascript">
        $(document).ready(function(){
        // Toggles paragraphs display with sliding
          $(".btn-toggle").click(function(){
            $("p").slideToggle();
          });
        });
</script> </head>
<body>
        <button type="button" class="btn-toggle">Slide Toggle</button>
         <p>This is a paragraph.</p>
        <p>This is another paragraph.</p>
</body> </html>
```
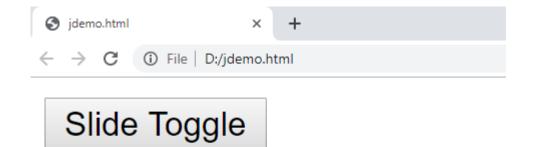
Output

Before Button Click

After Button Click

jQuery Animation Effects

jQuery Animation Effects

- **jQuery animate() Method :-**

- The jQuery animate() method is used to create custom animations. The animate() method is typically used to animate numeric CSS properties, for example, width, height, margin, padding, opacity, top, left, etc.

- The non-numeric properties such as color or background-color cannot be animated using the basic jQuery functionality.

- **Syntax :-**

    $(selector).animate({ properties }, duration, callback);

Example

```
<!DOCTYPE html>
<html>
<head>
    <script src="https://code.jquery.com/jquery-1.12.4.min.js"></script>
    <script type="text/javascript">
         $(document).ready(function(){
        $("#btn1").click(function(){
         $("#box").animate({height: "300px"});
         });
        $("#btn2").click(function(){
         $("#box").animate({height: "100px"});
         });
        });
</script>
</head>
```
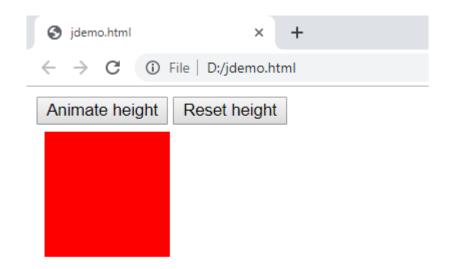
```
<body>

        <button id="btn1">Animate height</button>

        <button id="btn2">Reset height</button>

        <div id="box" style="background:red;height:100px;width:100px;margin:6px;"></div>

</body>

</html>
```

Output

Before Animated

After Animated

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Example 2

```html
<!DOCTYPE html>
<html>
<head>
    <script src="https://code.jquery.com/jquery-1.12.4.min.js"></script>
    <style type="text/css">
      .box{
          width: 100px;
          height: 100px;
          background: green;
          margin-top: 30px;
          border-style: solid; /* Required to animate border width */
          border-color: gray;
      }
</style>
```
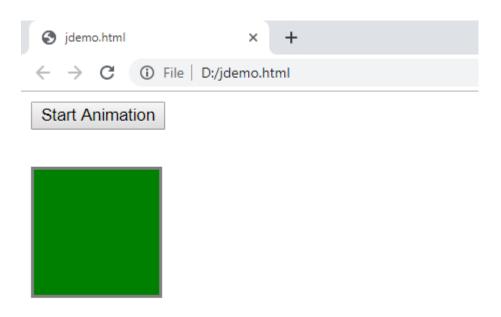
```
<script type="text/javascript">
 $(document).ready(function(){
    $("button").click(function(){
        $(".box")
            .animate({width: "300px"})
            .animate({height: "300px"})
            .animate({marginLeft: "150px"})
            .animate({borderWidth: "10px"})
            .animate({opacity: 0.5});
    });
});
</script>
</head>
<body>
        <button type="button">Start Animation</button>
        <div class="box"></div>
</body> </html>
```
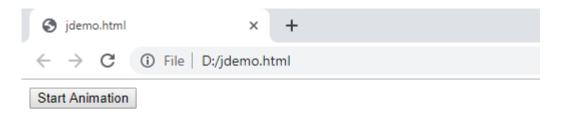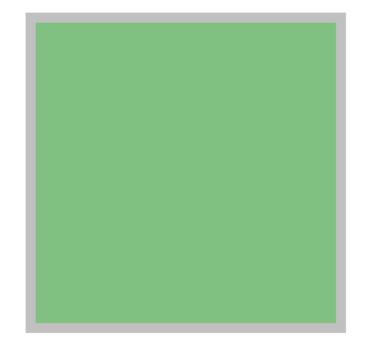
Output

Before Animated

After Animated

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jQuery Stop Animations

jQuery Stop Animations

- **jQuery stop() Method :-**

- The jQuery stop() method is used to stop the jQuery animations or effects currently running on the selected elements before it completes.

- **Syntax :-**

$(selector).stop(stopAll, goToEnd);

Example

```
<!DOCTYPE html>
<html>
<head>
    <script src="https://code.jquery.com/jquery-1.12.4.min.js"></script>
    <script type="text/javascript">
        $(document).ready(function(){
        $("#btn-start").click(function(){
        $("div").animate({height: 300}, 3000);
         $("div").animate({width: 300}, 3000);
        });
         $("#btn-stop").click(function(){
         $("div").stop();
         });
        });
</script>
</head>
```
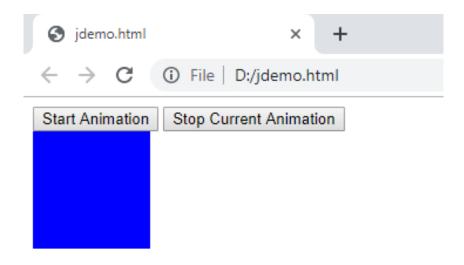
```
<body>

        <button id="btn-start">Start Animation</button>

      <button id="btn-stop">Stop Current Animation</button>

      <div style="background:blue;height:100px;width:100px"></div>

</body>

</html>
```

jQuery Chaining Method

- The jQuery provides another robust feature called method chaining that allows us to perform multiple action on the same set of elements, all within a single line of code.
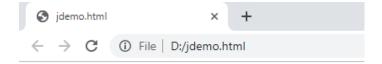
Example

```
<!DOCTYPE html>
<html>
<head>
    <script src="https://code.jquery.com/jquery-1.12.4.min.js"></script>
    <script type="text/javascript">
        $(document).ready(function(){
         $("button").click(function(){
         $(".p1").css("color", "blue").slideUp(2000).slideDown(2000);
        });
        });
    </script>
</head>
<body>
        <p class="p1">Akash Technolabs</p>
        <button>Click me</button>
</body>
</html>
```
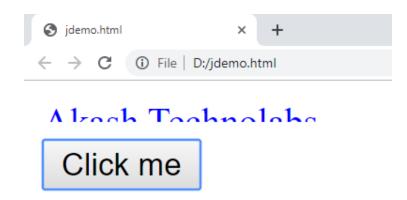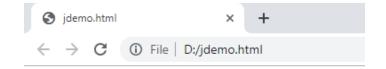
Output

Before Button Click

After Button Click (Slide Up)

After Button Click (Slide Down)

jQuery Callback Function

- A callback function is a function that is executed once the effect is complete.

- The callback function is passed as an argument to the effect methods and they typically appear as the last argument of the method.

- For example, the basic syntax of the jQuery slideToggle() effect method with a callback function can be given with:

Syntax

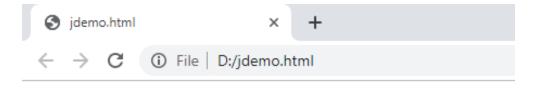$(selector).slideToggle(duration, callback);

Example

```
<!DOCTYPE html>
<html>
<head>
    <script src="https://code.jquery.com/jquery-1.12.4.min.js"></script>
    <script type="text/javascript">
        $(document).ready(function(){
         $("button").click(function(){
         $("p").slideToggle("slow");
        alert("The slide toggle effect has completed.");
        });
        });
</script>
</head>
<body>
        <p style="background: green;">This is paragraph.</p>
         <button>Click me</button>
</body> </html>
```
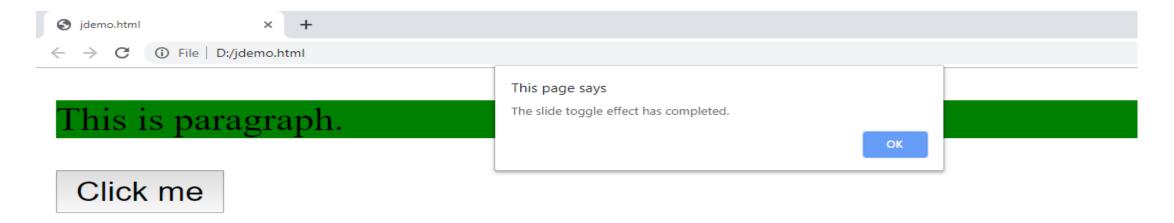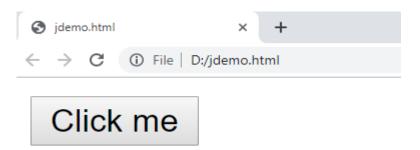
Output

Before Button Click

After Button Click

This is paragraph.

Click me

This page says

The slide toggle effect has completed.

OK

Click me

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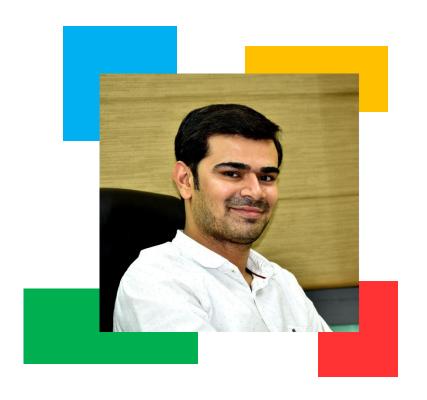
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