

JQUERY

Effects and Animation

Effects and Animation

jQuery makes it very easy to add simple **visual effects** to a web page

Custom animations

Styling elements

hiding and showing
elements

Sequencing effects

Effects and Animation

Styling elements

Change one or more CSS properties
over a specified period of time

jQuery automatically adds
transition **effects** over the
duration of this change

Effects and Animation

jQuery makes it very easy to add
simple **visual effects** to a web page

Custom animations

Styling elements

hiding and showing
elements

Sequencing effects

Effects and Animation

hiding and showing elements

Elements can be hidden and displayed with a variety of effects

These are **visually pleasing** and add a flourish to your page

Effects and Animation

jQuery makes it very easy to add
simple **visual effects** to a web page

Custom animations

Styling elements

hiding and showing
elements

Sequencing effects

Effects and Animation

Custom animations

Using the basic elements you can
build up your own custom, complex
animations

The basic animations serve as
building blocks

Effects and Animation

jQuery makes it very easy to add
simple **visual effects** to a web page

Custom animations

Styling elements

hiding and showing
elements

Sequencing effects

Effects and Animation

Sequencing effects

Animations can be played one after another in a sequence

This allows us to build up more complicated custom animations

EXAMPLE 20

Css.html

Css.html

Example20Demo - 1

Css.html

```
<div class="fontbox box">  
    Hello!  
</div>  
<button id="smaller">Smaller</button>  
<button id="bigger">Bigger</button>
```



Css.html

```
<div class="fontbox box">  
  Hello!  
</div>
```

```
<button id="smaller">Smaller</button>  
<button id="bigger">Bigger</button>
```



The buttons make the text in
the box bigger or smaller

Css.html

```
<div class="fontbox box">  
  Hello!  
</div>
```

```
<button id="smaller">Smaller</button>  
<button id="bigger">Bigger</button>
```



This is done by changing
the **font-size** CSS property
on the <div>

Css.html

```
$('#smaller').click(function() {  
    var fontSizeText = $('.fontbox').css('font-size');  
    var fontSize = parseInt(fontSizeText.substring(0, fontSizeText.length - 2));  
  
    fontSize = Math.max(6, fontSize - 1);  
    console.log('Changing font size to: ' + fontSize);  
  
    $('.fontbox').css('font-size', fontSize + 'px');  
});
```

```
$('#bigger').click(function() {  
    var fontSizeText = $('.fontbox').css('font-size');  
    var fontSize = parseInt(fontSizeText.substring(0, fontSizeText.length - 2));  
  
    fontSize++;  
    console.log('Changing font size to: ' + fontSize);  
  
    $('.fontbox').css('font-size', fontSize + 'px');  
});
```



Css.html

```
$( '#smaller' ).click( function() {  
    var fontSizeText = $( '.fontbox' ).css( 'font-size' );  
    var fontSize = parseInt( fontSizeText.substring( 0, fontSizeText.length - 2 ));  
  
    fontSize = Math.max( 6, fontSize - 1 );  
    console.log( 'Changing font size to: ' + fontSize );  
  
    $( '.fontbox' ).css( 'font-size', fontSize + 'px' );  
});
```

The **css()** method on the jQuery object can be used to **get or set** CSS properties

Css.html

```
$( '#smaller' ).click( function() {  
    var fontSizeText = $( '.fontbox' ).css( 'font-size' );  
    var fontSize = parseInt( fontSizeText.substring( 0, fontSizeText.length - 2 ) );  
  
    fontSize = Math.max( 6, fontSize - 1 );  
    console.log( 'Changing font size to: ' + fontSize );  
  
    $( '.fontbox' ).css( 'font-size', fontSize + 'px' );  
});
```

Here we access the font-size property of the <div> which holds the text

Css.html

```
$( '#smaller' ).click( function() {  
    var fontSizeText = $( '.fontbox' ).css( 'font-size' );  
    var fontSize = parseInt( fontSizeText.substring( 0, fontSizeText.length - 2 ));  
  
    fontSize = Math.max( 6, fontSize - 1 );  
    console.log( 'Changing font size to: ' + fontSize );  
  
    $( '.fontbox' ).css( 'font-size', fontSize + 'px' );  
});
```

It will be of the form “20px”

Css.html

```
$( '#smaller' ).click(function() {  
    var fontSizeText = $( '.fontbox' ).css( 'font-size' );  
    var fontSize = parseInt( fontSizeText.substring( 0, fontSizeText.length - 2 ) );  
  
    fontSize = Math.max( 6, fontSize - 1 );  
    console.log( 'Changing font size to: ' + fontSize );  
  
    $( '.fontbox' ).css( 'font-size', fontSize + 'px' );  
});
```

Extract the integer from the text, all except the last 2 characters - this gives us the string "20"

Css.html

```
$( '#smaller' ).click(function() {  
    var fontSizeText = $( '.fontbox' ).css( 'font-size' );  
    var fontSize = parseInt( fontSizeText.substring( 0, fontSizeText.length - 2 ) );  
  
    fontSize = Math.max( 6, fontSize - 1 );  
    console.log( 'Changing font size to: ' + fontSize );  
  
    $( '.fontbox' ).css( 'font-size', fontSize + 'px' );  
});
```

Use the Javascript function
parseInt() to convert the string
to an integer

Css.html

```
$( '#smaller' ).click(function() {  
    var fontSizeText = $( '.fontbox' ).css( 'font-size' );  
    var fontSize = parseInt(fontSizeText.substring(0, fontSizeText.length - 2));  
  
    fontSize = Math.max(6, fontSize - 1);  
    console.log( 'Changing font size to: ' + fontSize );  
  
    $( '.fontbox' ).css( 'font-size', fontSize + 'px' );  
});
```

Decrement the integer, with a
lower bound of 6px

Css.html

```
$( '#smaller' ).click(function() {  
    var fontSizeText = $( '.fontbox' ).css( 'font-size' );  
    var fontSize = parseInt(fontSizeText.substring(0, fontSizeText.length - 2));  
  
    fontSize = Math.max(6, fontSize - 1);  
    console.log( 'Changing font size to: ' + fontSize);  
    $( '.fontbox' ).css( 'font-size', fontSize + 'px' );  
});
```

Set the font-size property to
this new decremented value!

Css.html

```
$( '#smaller' ).click(function() {  
    var fontSizeText = $( '.fontbox' ).css( 'font-size' );  
    var fontSize = parseInt(fontSizeText.substring(0, fontSizeText.length - 2));  
  
    fontSize = Math.max(6, fontSize - 1);  
    console.log( 'Changing font size to: ' + fontSize);  
    $( '.fontbox' ).css( 'font-size', fontSize + 'px' );  
});
```

Note that the `css()` function is used to get and set properties

Css.html

```
$( '#smaller' ).click(function() {  
    var fontSizeText = $( '.fontbox' ).css( 'font-size' );  
    var fontSize = parseInt(fontSizeText.substring(0, fontSizeText.length - 2));  
  
    fontSize = Math.max(6, fontSize - 1);  
    console.log( 'Changing font size to: ' + fontSize);  
    $( '.fontbox' ).css( 'font-size', fontSize + 'px' );  
});
```

Making the font-size bigger
works exactly the same way

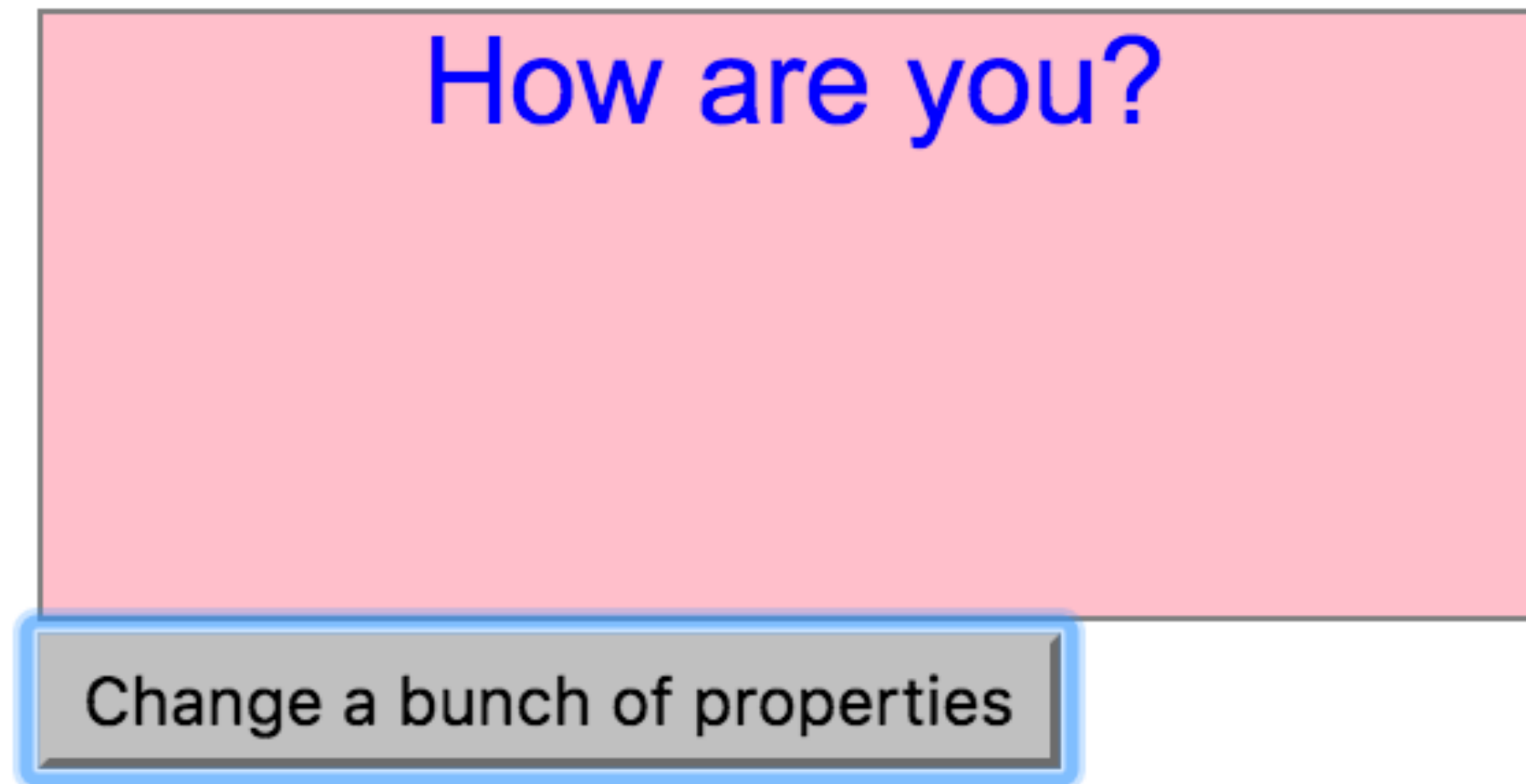
The `css()` function can also get and set **multiple** CSS properties at the same time

Css.html

Example20Demo - 2

Css.html

```
<div class="propertiesbox box">  
    How are you?  
</div>  
<button id="manyProperties">Change a bunch of properties</button>
```



Css.html

```
<div class="propertiesbox box">
```

```
    How are you?
```

```
</div>
```

```
<button id="manyProperties">Change a bunch of properties</button>
```

How are you?

Change a bunch of properties

The button changes 3 CSS
properties - color, background-
color and font-family

Css.html

```
$( '#manyProperties' ).click(function() {  
    var colors = ['red', 'blue', 'green', 'yellow', 'grey', 'pink', 'brown', 'fuchsia'];  
    var fonts = ['Arial', 'Times', 'Georgia', 'Verdana', 'Comic Sans'];  
  
    var properties = $( '.propertiesbox' ).css(['color', 'background-color', 'font-family']);  
    console.log(properties);  
  
    $( '.propertiesbox' ).css({  
        'color': colors[Math.floor(Math.random() * colors.length)],  
        'background-color': colors[Math.floor(Math.random() * colors.length)],  
        'font-family': fonts[Math.floor(Math.random() * fonts.length)]  
    });  
});
```

These are the fonts and colors
to cycle through at random

Css.html

```
$('#manyProperties').click(function() {  
    var colors = ['red', 'blue', 'green', 'yellow', 'grey', 'pink', 'brown', 'fuchsia'];  
    var fonts = ['Arial', 'Times', 'Georgia', 'Verdana', 'Comic Sans'];  
  
    var properties = $('.propertiesbox').css(['color', 'background-color', 'font-family']);  
    console.log(properties);  
  
    $('.propertiesbox').css({  
        'color': colors[Math.floor(Math.random() * colors.length)],  
        'background-color': colors[Math.floor(Math.random() * colors.length)],  
        'font-family': fonts[Math.floor(Math.random() * fonts.length)]  
    });  
});
```

Get multiple CSS properties
using the same `css()` function

Css.html

```
$('#manyProperties').click(function() {  
  var colors = ['red', 'blue', 'green', 'yellow', 'grey', 'pink', 'brown', 'fuchsia'];  
  var fonts = ['Arial', 'Times', 'Georgia', 'Verdana', 'Comic Sans'];  
  
  var properties = $('.propertiesbox').css(['color', 'background-color', 'font-family']);  
  console.log(properties);  
  
  $('.propertiesbox').css({  
    'color': colors[Math.floor(Math.random() * colors.length)],  
    'background-color': colors[Math.floor(Math.random() * colors.length)],  
    'font-family': fonts[Math.floor(Math.random() * fonts.length)]  
  });  
});
```

Specify the properties as an
array

Css.html

```
$('#manyProperties').click(function() {  
    var colors = ['red', 'blue', 'green', 'yellow', 'grey', 'pink', 'brown', 'fuchsia'];  
    var fonts = ['Arial', 'Times', 'Georgia', 'Verdana', 'Comic Sans'];  
  
    var properties = $('#.propertiesbox').css(['color', 'background-color', 'font-family']);  
    console.log(properties);  
  
    $('#.propertiesbox').css({  
        'color': colors[Math.floor(Math.random() * colors.length)],  
        'background-color': colors[Math.floor(Math.random() * colors.length)],  
        'font-family': fonts[Math.floor(Math.random() * fonts.length)]  
    });  
});
```

Log the original properties

► Object {color: "rgb(0, 0, 0)", background-color: "rgba(0, 0, 0, 0)", font-family: "Times"}

1

Css.html

```
$('#manyProperties').click(function() {  
    var colors = ['red', 'blue', 'green', 'yellow', 'grey', 'pink', 'brown', 'fuchsia'];  
    var fonts = ['Arial', 'Times', 'Georgia', 'Verdana', 'Comic Sans'];  
  
    var properties = $('.propertiesbox').css(['color', 'background-color', 'font-family']);  
    console.log(properties);  
  
    $( '.propertiesbox' ).css({  
        'color': colors[Math.floor(Math.random() * colors.length)],  
        'background-color': colors[Math.floor(Math.random() * colors.length)],  
        'font-family': fonts[Math.floor(Math.random() * fonts.length)]  
    });  
});
```

Set new values for these properties
using the same css() function

Css.html

```
$('#manyProperties').click(function() {  
  var colors = ['red', 'blue', 'green', 'yellow', 'grey', 'pink', 'brown', 'fuchsia'];  
  var fonts = ['Arial', 'Times', 'Georgia', 'Verdana', 'Comic Sans'];  
  
  var properties = $('.propertiesbox').css(['color', 'background-color', 'font-family']);  
  console.log(properties);  
  
  $('.propertiesbox').css({  
    'color': colors[Math.floor(Math.random() * colors.length)],  
    'background-color': colors[Math.floor(Math.random() * colors.length)],  
    'font-family': fonts[Math.floor(Math.random() * fonts.length)]  
  });  
});
```

The properties should be in a
Javascript object with the right
property names

EXAMPLE 21

ShowAndHide.html

ShowAndHide.html

Example21Demo

ShowAndHide.html

```
<div class="readmore link">
  Read...
</div>
<div class="readless link">
  Hide...
</div>
<br>
<div class="readmoreslow link">
  Read slow animation...
</div>
<div class="readlessslow link">
  Hide slow animation...
</div>
<br>
<div class="readmorefast link">
  Read fast animation...
</div>
<div class="readlessfast link">
  Hide fast animation...
</div>
<br>
<div class="readmorecustom link">
  Read custom animation...
</div>
<div class="readlesscustom link">
  Hide custom animation...
</div>
<div class="article">
  ...
</div>
```

How India’s digital economy can rediscover its mojo

Haresh Chawla

Read...	Hide...
Read slow animation...	Hide slow animation...
Read fast animation...	Hide fast animation...
Read custom animation...	Hide custom animation...

ShowAndHide.html

```
<div class="readmore link">
  Read...
</div>
<div class="readless link">
  Hide...
</div>
<br>
<div class="readmoreslow link">
  Read slow animation...
</div>
<div class="readlessslow link">
  Hide slow animation...
</div>
<br>
<div class="readmorefast link">
  Read fast animation...
</div>
<div class="readlessfast link">
  Hide fast animation...
</div>
<br>
<div class="readmorecustom link">
  Read custom animation...
</div>
<div class="readlesscustom link">
  Hide custom animation...
</div>
<div class="article">
  ...
</div>
```

How India's digital economy can rediscover its mojo

Haresh Chawla

Read...	Hide...
Read slow animation...	Hide slow animation...
Read fast animation...	Hide fast animation...
Read custom animation...	Hide custom animation...

These buttons hide and show the article at different speeds

ShowAndHide.html

```
$( '.readmore' ).on( 'click', function() {  
    $( '.article' ).show();  
});  
$( '.readless' ).on( 'click', function() {  
    $( '.article' ).hide();  
});  
  
$( '.readmoreslow' ).on( 'click', function() {  
    $( '.article' ).show( 'slow' );  
});  
$( '.readlessslow' ).on( 'click', function() {  
    $( '.article' ).hide( 'slow' );  
});  
  
$( '.readmorefast' ).on( 'click', function() {  
    $( '.article' ).show( 'fast' );  
});  
$( '.readlessfast' ).on( 'click', function() {  
    $( '.article' ).hide( 'fast' );  
});  
  
$( '.readmorecustom' ).on( 'click', function() {  
    $( '.article' ).show( 2000 );  
});  
$( '.readlesscustom' ).on( 'click', function() {  
    $( '.article' ).hide( 2000 );  
});
```

Every jQuery
object has the
hide() and show()
functions

ShowAndHide.html

```
$( '.readmore' ).on( 'click', function() {  
    $( '.article' ).show();  
});  
$( '.readless' ).on( 'click', function() {  
    $( '.article' ).hide();  
});  
  
$( '.readmoreslow' ).on( 'click', function() {  
    $( '.article' ).show( 'slow' );  
});  
$( '.readlessslow' ).on( 'click', function() {  
    $( '.article' ).hide( 'slow' );  
});  
  
$( '.readmorefast' ).on( 'click', function() {  
    $( '.article' ).show( 'fast' );  
});  
$( '.readlessfast' ).on( 'click', function() {  
    $( '.article' ).hide( 'fast' );  
});  
  
$( '.readmorecustom' ).on( 'click', function() {  
    $( '.article' ).show( 2000 );  
});  
$( '.readlesscustom' ).on( 'click', function() {  
    $( '.article' ).hide( 2000 );  
});
```

hide() sets the
display property
to "none"

ShowAndHide.html

```
$( '.readmore' ).on( 'click', function() {  
    $( '.article' ).show();  
});  
$( '.readless' ).on( 'click', function() {  
    $( '.article' ).hide();  
});  
  
$( '.readmoreslow' ).on( 'click', function() {  
    $( '.article' ).show( 'slow' );  
});  
$( '.readlessslow' ).on( 'click', function() {  
    $( '.article' ).hide( 'slow' );  
});  
  
$( '.readmorefast' ).on( 'click', function() {  
    $( '.article' ).show( 'fast' );  
});  
$( '.readlessfast' ).on( 'click', function() {  
    $( '.article' ).hide( 'fast' );  
});  
  
$( '.readmorecustom' ).on( 'click', function() {  
    $( '.article' ).show( 2000 );  
});  
$( '.readlesscustom' ).on( 'click', function() {  
    $( '.article' ).hide( 2000 );  
});
```

The hidden
content has **zero**
width and height,
and does not take
up any space on
the page

ShowAndHide.html

```
$( '.readmore' ).on( 'click', function() {  
    $( '.article' ).show();  
});  
$( '.readless' ).on( 'click', function() {  
    $( '.article' ).hide();  
});  
  
$( '.readmoreslow' ).on( 'click', function() {  
    $( '.article' ).show( 'slow' );  
});  
$( '.readlessslow' ).on( 'click', function() {  
    $( '.article' ).hide( 'slow' );  
});  
  
$( '.readmorefast' ).on( 'click', function() {  
    $( '.article' ).show( 'fast' );  
});  
$( '.readlessfast' ).on( 'click', function() {  
    $( '.article' ).hide( 'fast' );  
});  
  
$( '.readmorecustom' ).on( 'click', function() {  
    $( '.article' ).show( 2000 );  
});  
$( '.readlesscustom' ).on( 'click', function() {  
    $( '.article' ).hide( 2000 );  
});
```

show() restores
the property to
whatever it was
previously

ShowAndHide.html

```
$( '.readmore' ).on( 'click', function() {  
    $( '.article' ).show();  
});  
$( '.readless' ).on( 'click', function() {  
    $( '.article' ).hide();  
});  
  
$( '.readmoreslow' ).on( 'click', function() {  
    $( '.article' ).show( 'slow' );  
});  
$( '.readlessslow' ).on( 'click', function() {  
    $( '.article' ).hide( 'slow' );  
});  
  
$( '.readmorefast' ).on( 'click', function() {  
    $( '.article' ).show( 'fast' );  
});  
$( '.readlessfast' ).on( 'click', function() {  
    $( '.article' ).hide( 'fast' );  
});  
  
$( '.readmorecustom' ).on( 'click', function() {  
    $( '.article' ).show( 2000 );  
});  
$( '.readlesscustom' ).on( 'click', function() {  
    $( '.article' ).hide( 2000 );  
});
```

The transition duration can be controlled by specifying **'slow'**, **'normal'** or **'fast'** as the input argument

ShowAndHide.html

```
$( '.readmore' ).on( 'click', function() {  
    $( '.article' ).show();  
});  
$( '.readless' ).on( 'click', function() {  
    $( '.article' ).hide();  
});  
  
$( '.readmoreslow' ).on( 'click', function() {  
    $( '.article' ).show( 'slow' );  
});  
$( '.readlessslow' ).on( 'click', function() {  
    $( '.article' ).hide( 'slow' );  
});  
  
$( '.readmorefast' ).on( 'click', function() {  
    $( '.article' ).show( 'fast' );  
});  
$( '.readlessfast' ).on( 'click', function() {  
    $( '.article' ).hide( 'fast' );  
});  
  
$( '.readmorecustom' ).on( 'click', function() {  
    $( '.article' ).show( 2000 );  
});  
$( '.readlesscustom' ).on( 'click', function() {  
    $( '.article' ).hide( 2000 );  
});
```

The default values
are **600ms** for
slow, **200ms** for
fast and **400ms**
for the normal
speed

ShowAndHide.html

```
$( '.readmore' ).on( 'click', function() {  
    $( '.article' ).show();  
});  
$( '.readless' ).on( 'click', function() {  
    $( '.article' ).hide();  
});  
  
$( '.readmoreslow' ).on( 'click', function() {  
    $( '.article' ).show( 'slow' );  
});  
$( '.readlessslow' ).on( 'click', function() {  
    $( '.article' ).hide( 'slow' );  
});  
  
$( '.readmorefast' ).on( 'click', function() {  
    $( '.article' ).show( 'fast' );  
});  
$( '.readlessfast' ).on( 'click', function() {  
    $( '.article' ).hide( 'fast' );  
});  
  
$( '.readmorecustom' ).on( 'click', function() {  
    $( '.article' ).show( 2000 );  
});  
$( '.readlesscustom' ).on( 'click', function() {  
    $( '.article' ).hide( 2000 );  
});
```

You can redefine these
or set your own by
setting globals in this
namespace
jQuery.fx.speeds.*

ShowAndHide.html

```
$( '.readmore' ).on( 'click', function() {  
    $( '.article' ).show();  
});  
$( '.readless' ).on( 'click', function() {  
    $( '.article' ).hide();  
});  
  
$( '.readmoreslow' ).on( 'click', function() {  
    $( '.article' ).show( 'slow' );  
});  
$( '.readlessslow' ).on( 'click', function() {  
    $( '.article' ).hide( 'slow' );  
});  
  
$( '.readmorefast' ).on( 'click', function() {  
    $( '.article' ).show( 'fast' );  
});  
$( '.readlessfast' ).on( 'click', function() {  
    $( '.article' ).hide( 'fast' );  
});  
  
$( '.readmorecustom' ).on( 'click', function() {  
    $( '.article' ).show( 2000 );  
});  
$( '.readlesscustom' ).on( 'click', function() {  
    $( '.article' ).hide( 2000 );  
});
```

jQuery.fx.speeds.fast = 150
jQuery.fx.speeds.superfast = 50
jQuery.fx.speeds.painfullyslow = 2000

ShowAndHide.html

```
$( '.readmore' ).on( 'click', function() {  
    $( '.article' ).show();  
});  
$( '.readless' ).on( 'click', function() {  
    $( '.article' ).hide();  
});  
  
$( '.readmoreslow' ).on( 'click', function() {  
    $( '.article' ).show( 'slow' );  
});  
$( '.readlessslow' ).on( 'click', function() {  
    $( '.article' ).hide( 'slow' );  
});  
  
$( '.readmorefast' ).on( 'click', function() {  
    $( '.article' ).show( 'fast' );  
});  
$( '.readlessfast' ).on( 'click', function() {  
    $( '.article' ).hide( 'fast' );  
});  
  
$( '.readmorecustom' ).on( 'click', function() {  
    $( '.article' ).show( 2000 );  
});  
$( '.readlesscustom' ).on( 'click', function() {  
    $( '.article' ).hide( 2000 );  
});
```

Or just specify a
custom speed in ms
as the input
argument!

EXAMPLE 22

FadeInAndFadeOut.html

FadeInAndFadeOut.html

Example22Demo

FadeInAndFadeOut.html

```
<body>
<h3>How India’s digital economy can rediscover its mojo</h3>
<h4>Haresh Chawla</h4>
<div class="readmore link">
  Read...
</div>
<div class="readless link">
  Hide...
</div>
<br>
<div class="readmoreslow link">
  Read slow animation...
</div>
<div class="readlessslow link">
  Hide slow animation...
</div>
<br>
<div class="readmorefast link">
  Read fast animation...
</div>
<div class="readlessfast link">
  Hide fast animation...
</div>
<br>
<div class="readmorecustom link">
  Read custom animation...
</div>
<div class="readlesscustom link">
  Hide custom animation...
</div>
<div class="article">
</div>
<br>
</body>
```

How India’s digital economy can rediscover its mojo

Haresh Chawla

Read...	Hide...
Read slow animation...	Hide slow animation...
Read fast animation...	Hide fast animation...
Read custom animation...	Hide custom animation...

FadeInAndFadeOut.html

```
$(document).ready(function () {  
    $('.article').hide();  
  
    $('.readmore').on('click', function() {  
        $('.article').fadeIn();  
    });  
    $('.readless').on('click', function() {  
        $('.article').fadeOut();  
    });  
  
    $('.readmoreslow').on('click', function() {  
        $('.article').fadeIn('slow');  
    });  
    $('.readlessslow').on('click', function() {  
        $('.article').fadeOut('slow');  
    });  
  
    $('.readmorefast').on('click', function() {  
        $('.article').fadeIn('fast');  
    });  
    $('.readlessfast').on('click', function() {  
        $('.article').fadeOut('fast');  
    });  
  
    $('.readmorecustom').on('click', function() {  
        $('.article').fadeIn(2000);  
    });  
    $('.readlesscustom').on('click', function() {  
        $('.article').fadeOut(2000);  
    });  
});
```

The fadeIn() and
fadeOut() works
exactly like show()
and hide()

FadeInAndFadeOut.html

```
$(document).ready(function () {  
    $('.article').hide();  
  
    $('.readmore').on('click', function() {  
        $('.article').fadeIn();  
    });  
    $('.readless').on('click', function() {  
        $('.article').fadeOut();  
    });  
  
    $('.readmoreslow').on('click', function() {  
        $('.article').fadeIn('slow');  
    });  
    $('.readlessslow').on('click', function() {  
        $('.article').fadeOut('slow');  
    });  
  
    $('.readmorefast').on('click', function() {  
        $('.article').fadeIn('fast');  
    });  
    $('.readlessfast').on('click', function() {  
        $('.article').fadeOut('fast');  
    });  
  
    $('.readmorecustom').on('click', function() {  
        $('.article').fadeIn(2000);  
    });  
    $('.readlesscustom').on('click', function() {  
        $('.article').fadeOut(2000);  
    });  
});
```

It uses the fade
animation which
rapidly changes the
opacity of the
content

FadeInAndFadeOut.html

```
$(document).ready(function () {  
    $('.article').hide();  
  
    $('.readmore').on('click', function() {  
        $('.article').fadeIn();  
    });  
    $('.readless').on('click', function() {  
        $('.article').fadeOut();  
    });  
  
    $('.readmoreslow').on('click', function() {  
        $('.article').fadeIn('slow');  
    });  
    $('.readlessslow').on('click', function() {  
        $('.article').fadeOut('slow');  
    });  
  
    $('.readmorefast').on('click', function() {  
        $('.article').fadeIn('fast');  
    });  
    $('.readlessfast').on('click', function() {  
        $('.article').fadeOut('fast');  
    });  
  
    $('.readmorecustom').on('click', function() {  
        $('.article').fadeIn(2000);  
    });  
    $('.readlesscustom').on('click', function() {  
        $('.article').fadeOut(2000);  
    });  
});
```

The speeds can be
slow or **fast**

FadeInAndFadeOut.html

```
$(document).ready(function () {  
    $('.article').hide();  
  
    $('.readmore').on('click', function() {  
        $('.article').fadeIn();  
    });  
    $('.readless').on('click', function() {  
        $('.article').fadeOut();  
    });  
  
    $('.readmoreslow').on('click', function() {  
        $('.article').fadeIn('slow');  
    });  
    $('.readlessslow').on('click', function() {  
        $('.article').fadeOut('slow');  
    });  
  
    $('.readmorefast').on('click', function() {  
        $('.article').fadeIn('fast');  
    });  
    $('.readlessfast').on('click', function() {  
        $('.article').fadeOut('fast');  
    });  
  
    $('.readmorecustom').on('click', function() {  
        $('.article').fadeIn(2000);  
    });  
    $('.readlesscustom').on('click', function() {  
        $('.article').fadeOut(2000);  
    });  
});
```

Or a custom speed

EXAMPLE 23

SlideUpAndSlideDown.html

SlideUpAndSlideDown.html

Example23Demo

SlideUpAndSlideDown.html

```
<body>
<h3>How India's digital economy can rediscover its mojo</h3>
<h4>Haresh Chawla</h4>
<div class="readmore link">
  Read...
</div>
<div class="readless link">
  Hide...
</div>
<br>
<div class="readmoreslow link">
  Read slow slide down...
</div>
<div class="readlessslow link">
  Hide slow slide up...
</div>
<br>
<div class="readmorefast link">
  Read fast slide down...
</div>
<div class="readlessfast link">
  Hide fast slide up...
</div>
<br>
<div class="readmorecustom link">
  Read custom slide down...
</div>
<div class="readlesscustom link">
  Hide custom slide up...
</div>
<div class="article">
...
</div>
<br>
</body>
```

How India's digital economy can rediscover its mojo

Haresh Chawla

Read...	Hide...
Read slow slide down...	Hide slow slide up...
Read fast slide down...	Hide fast slide up...
Read custom slide down...	Hide custom slide up...

SlideUpAndSlideDown.html

```
$(document).ready(function () {  
    $('.article').hide();  
  
    $('.readmore').on('click', function() {  
        $('.article').slideDown();  
    });  
    $('.readless').on('click', function() {  
        $('.article').slideUp();  
    });  
  
    $('.readmoreslow').on('click', function() {  
        $('.article').slideDown('slow');  
    });  
    $('.readlessslow').on('click', function() {  
        $('.article').slideUp('slow');  
    });  
  
    $('.readmorefast').on('click', function() {  
        $('.article').slideDown('fast');  
    });  
    $('.readlessfast').on('click', function() {  
        $('.article').slideUp('fast');  
    });  
  
    $('.readmorecustom').on('click', function() {  
        $('.article').slideDown(2000);  
    });  
    $('.readlesscustom').on('click', function() {  
        $('.article').slideUp(2000);  
    });  
});
```

Slide animations
are accomplished by
rapidly changing
the **height** property
of the CSS element

SlideUpAndSlideDown.html

```
$(document).ready(function () {  
    $('.article').hide();  
  
    $('.readmore').on('click', function() {  
        $('.article').slideDown();  
    });  
    $('.readless').on('click', function() {  
        $('.article').slideUp();  
    });  
  
    $('.readmoreslow').on('click', function() {  
        $('.article').slideDown('slow');  
    });  
    $('.readlessslow').on('click', function() {  
        $('.article').slideUp('slow');  
    });  
  
    $('.readmorefast').on('click', function() {  
        $('.article').slideDown('fast');  
    });  
    $('.readlessfast').on('click', function() {  
        $('.article').slideUp('fast');  
    });  
  
    $('.readmorecustom').on('click', function() {  
        $('.article').slideDown(2000);  
    });  
    $('.readlesscustom').on('click', function() {  
        $('.article').slideUp(2000);  
    });  
});
```

The same
arguments can be
specified for the
duration of the
animation

SlideUpAndSlideDown.html

```
$(document).ready(function () {  
    $('.article').hide();  
  
    $('.readmore').on('click', function() {  
        $('.article').slideDown();  
    });  
    $('.readless').on('click', function() {  
        $('.article').slideUp();  
    });  
  
    $('.readmoreslow').on('click', function() {  
        $('.article').slideDown('slow');  
    });  
    $('.readlessslow').on('click', function() {  
        $('.article').slideUp('slow');  
    });  
  
    $('.readmorefast').on('click', function() {  
        $('.article').slideDown('fast');  
    });  
    $('.readlessfast').on('click', function() {  
        $('.article').slideUp('fast');  
    });  
  
    $('.readmorecustom').on('click', function() {  
        $('.article').slideDown(2000);  
    });  
    $('.readlesscustom').on('click', function() {  
        $('.article').slideUp(2000);  
    });  
});
```

slow, fast, normal,
or a custom number
in milliseconds

EXAMPLE 24

Toggle.html

Toggle.html

Example24Demo

Toggle.html

```
<body>
<h3>How India’s digital economy can rediscover its mojo</h3>
<h4>Haresh Chawla</h4>
<div class="toggle link">
  Toggle...
</div>
<br>
<div class="slidetoggleslow link">
  Slide toggle...
</div>
<br>
<div class="fadetogglegustom link">
  Fade toggle...
</div>
<div class="article">
  ...
</div>
<br>
</body>
```

How India’s digital economy can rediscover its mojo

Haresh Chawla

Toggle...

Slide toggle...

Fade toggle...

Toggle.html

```
<body>
<h3>How India's digital economy can rediscover its mojo</h3>
<h4>Haresh Chawla</h4>
<div class="toggle link">
  Toggle...
</div>
<br>
<div class="slidetoggleslow link">
  Slide toggle...
</div>
<br>
<div class="fadetogglecustom link">
  Fade toggle...
</div>
<div class="article">
  ...
</div>
<br>
</body>
```

How India's digital economy can rediscover its mojo

Haresh Chawla

Toggle...

Slide toggle...

Fade toggle...

Toggle reduces the cognitive
overload for the user who
interacts with the webpage

Toggle.html

```
<body>
<h3>How India's digital economy can rediscover its mojo</h3>
<h4>Haresh Chawla</h4>
<div class="toggle link">
  Toggle...
</div>
<br>
<div class="slidetoggleslow link">
  Slide toggle...
</div>
<br>
<div class="fadetogglegustom link">
  Fade toggle...
</div>
<div class="article">
  ...
</div>
<br>
</body>
```

How India's digital economy can rediscover its mojo

Haresh Chawla

Toggle...

Slide toggle...

Fade toggle...

jQuery internally **tracks**
the current state of the
element

Toggle.html

```
$(document).ready(function () {  
    $('.article').hide();  
  
    $('.toggle').on('click', function() {  
        $('.article').toggle();  
    });  
  
    $('.slidetoggleslow').on('click', function() {  
        $('.article').slideToggle('slow');  
    });  
  
    $('.fadetogglegustom').on('click', function() {  
        $('.article').fadeToggle(2000);  
    });  
});
```

jQuery internally tracks
the current state of the
element

Toggle.html

```
$(document).ready(function () {  
    $('.article').hide();  
  
    $('.toggle').on('click', function() {  
        $('.article').toggle();  
    });  
  
    $('.slidetoggleslow').on('click', function() {  
        $('.article').slideToggle('slow');  
    });  
  
    $('.fadetogglegustom').on('click', function() {  
        $('.article').fadeToggle(2000);  
    });  
});
```

It simply toggles the state
when we apply the effect

Toggle.html

```
$(document).ready(function () {  
    $('.article').hide();  
  
    $('.toggle').on('click', function() {  
        $('.article').toggle();  
    });  
  
    $('.slidetoggleslow').on('click', function() {  
        $('.article').slideToggle('slow');  
    });  
  
    $('.fadetogglegustom').on('click', function() {  
        $('.article').fadeToggle(2000);  
    });  
});
```

You can choose the effect you want on the toggle by calling the `slideToggle()` or `fadeToggle()` method

Toggle.html

```
$(document).ready(function () {  
    $('.article').hide();  
  
    $('.toggle').on('click', function() {  
        $('.article').toggle();  
    });  
  
    $('.slidetoggleslow').on('click', function() {  
        $('.article').slideToggle('slow');  
    });  
  
    $('.fadetogglegustom').on('click', function() {  
        $('.article').fadeToggle(2000);  
    });  
});
```

The animation duration
can be controlled exactly
like we've done so far

JQUERY

How do animations work?

How do animations work?

The use of animation functions in jQuery such as `hide()`, `fadeIn()`, `slideDown()` etc only **kick off** the animation

The changes to the CSS property is done in a **`setInterval()`** loop

How do animations work?

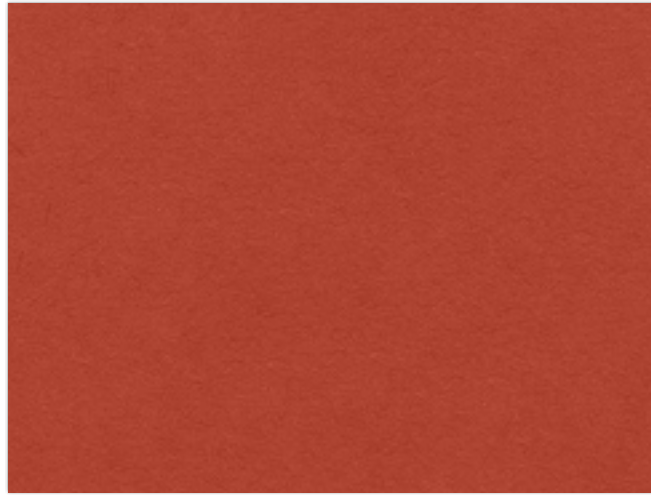
Consider the **fadeOut()** animation

This changes the **opacity** of the
element to which it is applied

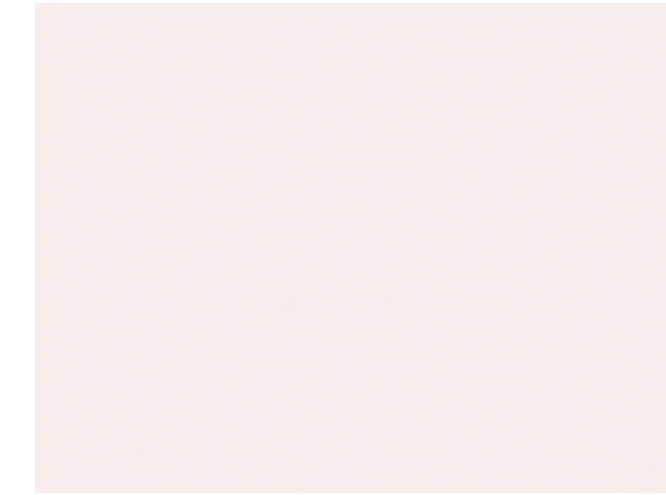
How do animations work?

Consider the **fadeOut()** animation

This changes the **opacity** of the element to which it is applied



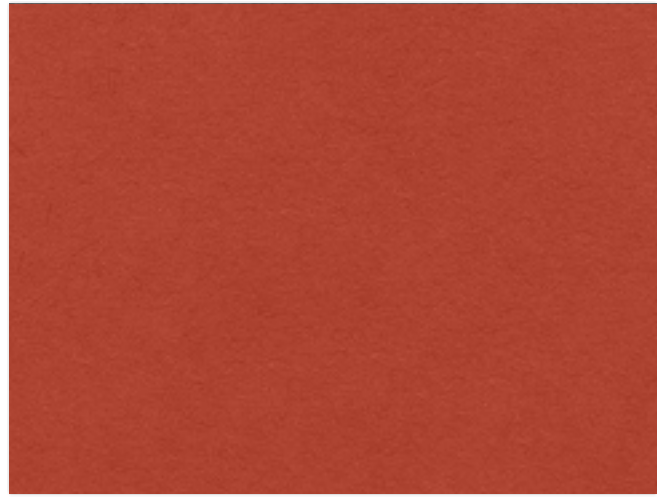
`opacity = 1`



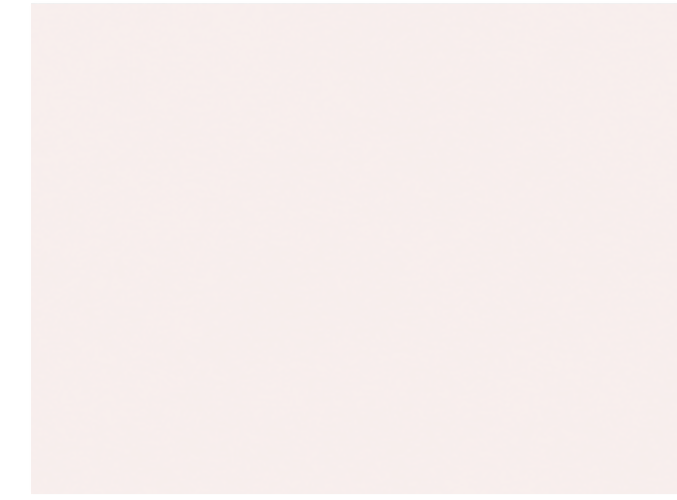
`opacity = 0.1`

How do animations work?

Consider the `fadeOut()` animation



`opacity = 1`

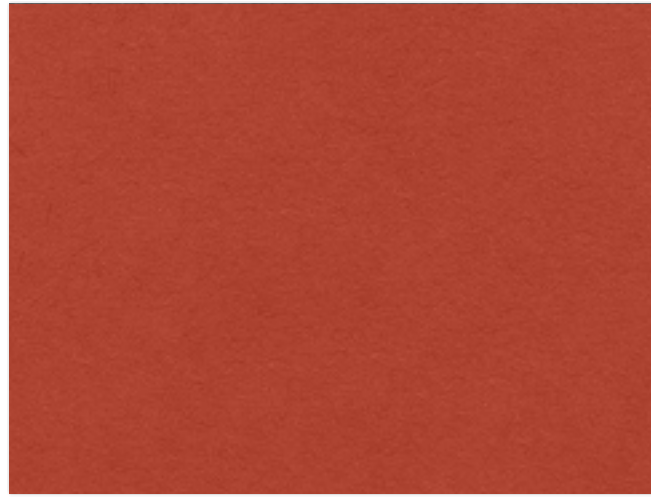


`opacity = 0.1`

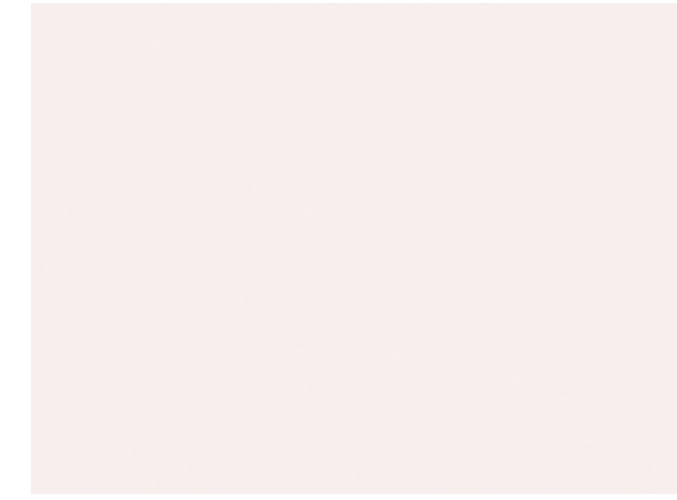
Imagine that jQuery sets up a
function kind of like this

How do animations work?

Consider the **fadeOut()** animation



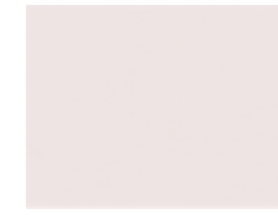
opacity = 1



opacity = 0.1

```
var currentOpacity = 1;
var finalOpacity = 0.1;
var id = setInterval(function() {
    $('.article').css('opacity', currentOpacity);
    currentOpacity = currentOpacity - 0.1;
    if (currentOpacity < finalOpacity) {
        clearInterval(id);
    }
}, 100);
```

How do animations work?

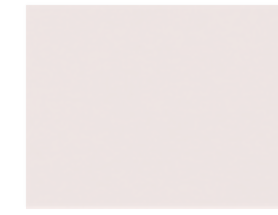


opacity = 1 opacity = 0.1

```
var currentOpacity = 1;  
var finalOpacity = 0.1;  
var id = setInterval(function() {  
    $('.article').css('opacity', currentOpacity);  
    currentOpacity = currentOpacity - 0.1;  
    if (currentOpacity < finalOpacity) {  
        clearInterval(id);  
    }  
}, 100);
```

Set up the initial opacity and the final opacity of the animation

How do animations work?

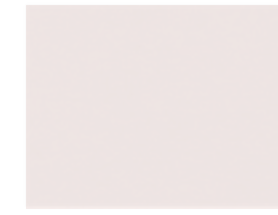


opacity = 1 opacity = 0.1

```
var currentOpacity = 1;
var finalOpacity = 0.1;
var id = setInterval(function() {
    $('.article').css('opacity', currentOpacity);
    currentOpacity = currentOpacity - 0.1;
    if (currentOpacity < finalOpacity) {
        clearInterval(id);
    }
}, 100);
```

**At intervals of 0.1 seconds
update the value of the opacity
property on the element**

How do animations work?

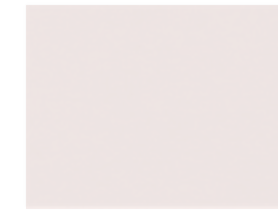


opacity = 1 opacity = 0.1

```
var currentOpacity = 1;
var finalOpacity = 0.1;
var id = setInterval(function() {
  $('.article').css('opacity', currentOpacity);
  currentOpacity = currentOpacity - 0.1;
  if (currentOpacity < finalOpacity) {
    clearInterval(id);
  }
}, 100);
```

Get the current opacity and
slowly reduce it

How do animations work?

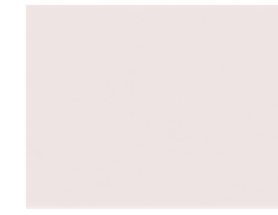


opacity = 1 opacity = 0.1

```
var currentOpacity = 1;
var finalOpacity = 0.1;
var id = setInterval(function() {
    $('.article').css('opacity', currentOpacity);
    currentOpacity = currentOpacity - 0.1;
    if (currentOpacity < finalOpacity) {
        clearInterval(id);
    }
}, 100);
```

Stop changing the opacity if
the final value has been reached

How do animations work?



opacity = 1 opacity = 0.1

```
var currentOpacity = 1;
var finalOpacity = 0.1;
var id = setInterval(function() {
    $('.article').css('opacity', currentOpacity);
    currentOpacity = currentOpacity - 0.1;
    if (currentOpacity < finalOpacity) {
        clearInterval(id);
    }
}, 100);
```

This `setInterval()` loop is what gives us the animation effects

EXAMPLE 25

ActionAfterAnimation.html

ActionAfterAnimation.html

Example25Demo

ActionAfterAnimation.html

```
<body>
<h3>How India's digital economy can rediscover its mojo</h3>
<h4>Haresh Chawla</h4>
<div class="readmorewith link">
  Read (highlight in parallel)
</div>
<div class="readmoreafter link">
  Read (highlight after)
</div>
<div class="readless link">
  Hide
</div>
<div class="article">
...
</div>
<br>
</body>
```

How India's digital economy can rediscover its mojo

Haresh Chawla

Read (highlight in parallel)

Read (highlight after)

Hide

ActionAfterAnimation.html

```
<body>
<h3>How India's digital economy can rediscover its mojo</h3>
<h4>Haresh Chawla</h4>
<div class="readmorewith link">
  Read (highlight in parallel)
</div>
<div class="readmoreafter link">
  Read (highlight after)
</div>
<div class="readless link">
  Hide
</div>
<div class="article">
  ...
</div>
<br>
</body>
```

The paragraph is
highlighted almost as
soon as the
animation begins

ActionAfterAnimation.html

```
<body>
<h3>How India's digital economy can rediscover its mojo</h3>
<h4>Haresh Chawla</h4>
<div class="readmorewith link">
  Read (highlight in parallel)
</div>
<div class="readmoreafter link">
  Read (highlight after)
</div>
<div class="readless link">
  Hide
</div>
<div class="article">
  ...
</div>
<br>
</body>
```

The paragraph is
highlighted after the
animation is
complete

ActionAfterAnimation.html

```
$(document).ready(function () {  
    $('.article').hide();  
  
    $('.readmorewith').on('click', function() {  
        $('.article').fadeIn(3000).addClass('highlight');  
    });  
    $('.readmoreafter').on('click', function() {  
        $('.article').fadeIn(3000, function() {  
            $(this).addClass('highlight');  
        });  
    });  
    $('.readless').on('click', function() {  
        $('.article').hide().removeClass('highlight');  
    });  
});
```

Notice that we called the **fadeIn()** and then the **addClass()** for the highlight

ActionAfterAnimation.html

```
$(document).ready(function () {  
    $('.article').hide();  
  
    $('.readmorewith').on('click', function() {  
        $('.article').fadeIn(3000).addClass('highlight');  
    });  
    $('.readmoreafter').on('click', function() {  
        $('.article').fadeIn(3000, function() {  
            $(this).addClass('highlight');  
        });  
    });  
    $('.readless').on('click', function() {  
        $('.article').hide().removeClass('highlight');  
    });  
});
```

This just **kicks off** the `fadeIn()` - it does not wait for it to complete

ActionAfterAnimation.html

```
$(document).ready(function () {  
    $('.article').hide();  
  
    $('.readmorewith').on('click', function() {  
        $('.article').fadeIn(3000).addClass('highlight');  
    });  
    $('.readmoreafter').on('click', function() {  
        $('.article').fadeIn(3000, function() {  
            $(this).addClass('highlight');  
        });  
    });  
    $('.readless').on('click', function() {  
        $('.article').hide().removeClass('highlight');  
    });  
});
```

The addClass() is called immediately after, not when the fadeIn() is complete

ActionAfterAnimation.html

```
$(document).ready(function () {  
    $('.article').hide();  
  
    $('.readmorewith').on('click', function() {  
        $('.article').fadeIn(3000).addClass('highlight');  
    });  
    $('.readmoreafter').on('click', function() {  
        $('.article').fadeIn(3000, function() {  
            $(this).addClass('highlight');  
        });  
    });  
    $('.readless').on('click', function() {  
        $('.article').hide().removeClass('highlight');  
    });  
});
```

This is why for almost the entire duration of the fadeIn() the text is red in color

ActionAfterAnimation.html

```
$(document).ready(function () {  
    $('.article').hide();  
  
    $('.readmorewith').on('click', function() {  
        $('.article').fadeIn(3000).addClass('highlight');  
    });  
    $('.readmoreafter').on('click', function() {  
        $('.article').fadeIn(3000, function() {  
            $(this).addClass('highlight');  
        });  
    });  
    $('.readless').on('click', function() {  
        $('.article').hide().removeClass('highlight');  
    });  
});
```

In order to add the highlight **after** the animation is complete you need to specify things a little differently

ActionAfterAnimation.html

```
$(document).ready(function () {  
    $('.article').hide();  
  
    $('.readmorewith').on('click', function() {  
        $('.article').fadeIn(3000).addClass('highlight');  
    });  
    $('.readmoreafter').on('click', function() {  
        $('.article').fadeIn(3000, function() {  
            $(this).addClass('highlight');  
        });  
    });  
    $('.readless').on('click', function() {  
        $('.article').hide().removeClass('highlight');  
    });  
});
```

Pass in a function to the fadeIn()
method after the duration
argument

ActionAfterAnimation.html

```
$(document).ready(function () {  
    $('.article').hide();  
  
    $('.readmorewith').on('click', function() {  
        $('.article').fadeIn(3000).addClass('highlight');  
    });  
    $('.readmoreafter').on('click', function() {  
        $('.article').fadeIn(3000, function() {  
            $(this).addClass('highlight');  
        });  
    });  
    $('.readless').on('click', function() {  
        $('.article').hide().removeClass('highlight');  
    });  
});
```

This function is called when the animation is complete!

EXAMPLE 26

Animate.html

Animate.html

Example26Demo

Animate.html

The `animate()` function can be used to animate arbitrary CSS properties of an element

```
.animate(properties [, duration] [, easing] [, complete])
```

Animate.html

```
.animate(properties [, duration] [, easing] [, complete])
```

One or more properties can be
changed at the same time

Animate.html

```
.animate(properties [, duration] [, easing] [, complete])
```

A Javascript object which specifies
what the CSS property values should
be at the **end of the animation**

Animate.html

```
.animate(properties [, duration] [, easing] [, complete])
```

How long the animation should run

Animate.html

```
.animate(properties [, duration] [, easing] [, complete])
```

How the transition should progress
- at a linear rate, start slow and
then speed up

Animate.html

```
.animate(properties [, duration] [, easing] [, complete])
```

A function to call once the
animation is complete

Animate.html

```
.animate(properties [, duration] [, easing] [, complete])
```

A function to call once the
animation is complete

Animate.html

```
<body>
<div class="small link">
  Small
</div>
<div class="medium link">
  Medium
</div>
<div class="big link">
  Big
</div>
<div class="text">
  Loonycorn rocks!
</div>
<br>
</body>
```

Small

Medium

Big

Loonycorn rocks!

Animate.html

```
$(document).ready(function () {  
  $('small').click(function () {  
    $('.text').animate({  
      'font-size': '16px',  
      'opacity': '0.25'  
    },  
    2000,  
    function() {  
      console.log('Make small done!');  
    }  
  )  
});  
$('medium').click(function() {  
  $('.text').animate({  
    'font-size': '44px',  
    'opacity': '0.6'  
  },  
  2000,  
  function() {  
    console.log('Make medium done!');  
  }  
);  
});  
$('big').click(function() {  
  $('.text').animate({  
    'font-size': '88px',  
    'opacity': '1'  
  },  
  2000,  
  function() {  
    console.log('Make big done!');  
  }  
);  
});
```

Each button click
calls `animate()` on
the text and sets
up some final CSS
properties

Animate.html

```
$(document).ready(function () {  
  $('.small').click(function () {  
    $('.text').animate({  
      'font-size': '16px',  
      'opacity': '0.25'  
    },  
    2000,  
    function () {  
      console.log('Make small done!');  
    }  
  )  
});  
$('.medium').click(function () {  
  $('.text').animate({  
    'font-size': '44px',  
    'opacity': '0.6'  
  },  
  2000,  
  function () {  
    console.log('Make medium done!');  
  }  
);  
$('.big').click(function () {  
  $('.text').animate({  
    'font-size': '88px',  
    'opacity': '1'  
  },  
  2000,  
  function () {  
    console.log('Make big done!');  
  }  
);  
});
```

Notice the small,
medium and large
font sizes

Animate.html

```
$(document).ready(function () {  
  $('small').click(function () {  
    $('.text').animate({  
      'font-size': '16px',  
      'opacity': '0.25'  
    },  
    2000,  
    function() {  
      console.log('Make small done!');  
    }  
  )  
});  
$('medium').click(function() {  
  $('.text').animate({  
    'font-size': '44px',  
    'opacity': '0.6'  
  },  
  2000,  
  function() {  
    console.log('Make medium done!');  
  }  
)  
});  
$('big').click(function() {  
  $('.text').animate({  
    'font-size': '88px',  
    'opacity': '1'  
  },  
  2000,  
  function() {  
    console.log('Make big done!');  
  }  
)  
});
```

This is what the
CSS properties of
the text should be
at the **end** of the
animation

Animate.html

```
$(document).ready(function () {  
  $('.small').click(function () {  
    $('.text').animate({  
      'font-size': '16px',  
      'opacity': '0.25'  
    },  
    2000,  
    function () {  
      console.log('Make small done!');  
    }  
  )  
});  
$('.medium').click(function () {  
  $('.text').animate({  
    'font-size': '44px',  
    'opacity': '0.6'  
  },  
  2000,  
  function () {  
    console.log('Make medium done!');  
  }  
);  
});  
$('.big').click(function () {  
  $('.text').animate({  
    'font-size': '88px',  
    'opacity': '1'  
  },  
  2000,  
  function () {  
    console.log('Make big done!');  
  }  
);  
});
```

We change the
opacity along with
the font size

Animate.html

```
$(document).ready(function () {  
  $('.small').click(function () {  
    $('.text').animate({  
      'font-size': '16px',  
      'opacity': '0.25'  
    },  
    2000,  
    function() {  
      console.log('Make small done!');  
    }  
  )  
});  
$('.medium').click(function() {  
  $('.text').animate({  
    'font-size': '44px',  
    'opacity': '0.6'  
  },  
  2000,  
  function() {  
    console.log('Make medium done!');  
  }  
)  
});  
$('.big').click(function() {  
  $('.text').animate({  
    'font-size': '88px',  
    'opacity': '1'  
  },  
  2000,  
  function() {  
    console.log('Make big done!');  
  }  
)  
});
```

This is the **duration**
of the animation

Animate.html

```
$(document).ready(function () {  
  $('.small').click(function () {  
    $('.text').animate({  
      'font-size': '16px',  
      'opacity': '0.25'  
    },  
    2000,  
    function() {  
      console.log('Make small done!');  
    }  
  )  
});  
$('.medium').click(function () {  
  $('.text').animate({  
    'font-size': '44px',  
    'opacity': '0.6'  
  },  
  2000,  
  function() {  
    console.log('Make medium done!');  
  }  
)  
});  
$('.big').click(function () {  
  $('.text').animate({  
    'font-size': '88px',  
    'opacity': '1'  
  },  
  2000,  
  function() {  
    console.log('Make big done!');  
  }  
)  
});
```

This is the function
called at the
completion of the
animation

Animate.html

```
$(document).ready(function () {  
  $('.small').click(function () {  
    $('.text').animate({  
      'font-size': '16px',  
      'opacity': '0.25'  
    },  
    2000,  
    function() {  
      console.log('Make small done!');  
    }  
  )  
});  
$('.medium').click(function () {  
  $('.text').animate({  
    'font-size': '44px',  
    'opacity': '0.6'  
  },  
  2000,  
  function() {  
    console.log('Make medium done!');  
  }  
)  
});  
$('.big').click(function () {  
  $('.text').animate({  
    'font-size': '88px',  
    'opacity': '1'  
  },  
  2000,  
  function() {  
    console.log('Make big done!');  
  }  
)  
});
```

We've not specified
an **easing** for the
animation here -
the default is
swing

Animate.html

```
$(document).ready(function () {  
  $('.small').click(function () {  
    $('.text').animate({  
      'font-size': '16px',  
      'opacity': '0.25'  
    },  
    2000,  
    function() {  
      console.log('Make small done!');  
    }  
  )  
});  
$('.medium').click(function () {  
  $('.text').animate({  
    'font-size': '44px',  
    'opacity': '0.6'  
  },  
  2000,  
  function() {  
    console.log('Make medium done!');  
  }  
)  
});  
$('.big').click(function () {  
  $('.text').animate({  
    'font-size': '88px',  
    'opacity': '1'  
  },  
  2000,  
  function() {  
    console.log('Make big done!');  
  }  
)  
});
```

Swing transitions
start slowly and
speed up towards
the end

EXAMPLE 27

MoreAnimate.html

MoreAnimate.html

Example27Demo

MoreAnimate.html

```
<body>
<div class="left link">
  Left
</div>
<div class="right link">
  Right
</div>
<div class="up link">
  Up
</div>
<div class="down link">
  Down
</div>
<div class="text">
  Loonycorn rocks!
</div>
<br>
</body>
```

Left

Right

Up

Down

Loonycorn rocks!

MoreAnimate.html

```
$(document).ready(function () {
    $('.left').click(function () {
        $('.text').animate({
            'left': ['-+=200', 'swing'],
            'opacity': ['-+=0.1', 'swing']
        },
        2000,
        function() {
            console.log('Left and lighter!');
        }
    )
});
$('.right').click(function () {
    $('.text').animate({
        'left': ['+=200', 'swing'],
        'opacity': ['+=0.1', 'linear']
    },
    2000,
    function() {
        console.log('Right and darker!');
    }
)
});
$('.up').click(function () {
    $('.text').animate({
        'top': ['-+=200', 'swing']
    },
    2000,
    function() {
        console.log('Up!');
    }
)
});
$('.down').click(function () {
    $('.text').animate({
        'top': ['+=200', 'linear']
    },
    2000,
    function() {
        console.log('Down!');
    }
)
});
});
```


MoreAnimate.html

```
$( '.left' ).click( function() {  
    $( '.text' ).animate({  
        'left': [ '-=200', 'swing' ],  
        'opacity': [ '-=0.1', 'swing' ]  
    },  
    2000,  
    function() {  
        console.log( 'Left and lighter!' );  
    }  
    )  
});
```

The animate() method changes 2 properties of the text element

MoreAnimate.html

```
$('.left').click(function() {  
    $('.text').animate({  
        'left': ['-=200', 'swing'],  
        'opacity': ['-=0.1', 'swing']  
    },  
    2000,  
    function() {  
        console.log('Left and lighter!');  
    }  
});
```

The **left** position and the **opacity**
of the text

MoreAnimate.html

```
$( '.left' ).click( function() {  
    $( '.text' ).animate({  
        'left': [ '-=200', 'swing' ],  
        'opacity': [ '-=0.1', 'swing' ]  
    },  
    2000,  
    function() {  
        console.log( 'Left and lighter!' );  
    }  
    )  
});
```

Note that the changes to these properties are **relative** to the current values of these properties

MoreAnimate.html

```
$( '.left' ).click( function() {  
    $( '.text' ).animate({  
        'left': [ '-=200', 'swing' ],  
        'opacity': [ '-=0.1', 'swing' ]  
    },  
    2000,  
    function() {  
        console.log( 'Left and lighter!' );  
    }  
    )  
});
```

The Left button **subtracts 200px**
from the current value of the left
property

MoreAnimate.html

```
$( '.left' ).click( function() {  
    $( '.text' ).animate({  
        'left': [ '-=200', 'swing' ],  
        'opacity': [ '-=0.1', 'swing' ]  
    },  
    2000,  
    function() {  
        console.log( 'Left and lighter!' );  
    }  
    )  
});
```

This is what moves the text to the left - the origin is the top left of the screen

MoreAnimate.html

```
$( '.left' ).click( function() {  
    $( '.text' ).animate({  
        'left': [ '-=200', 'swing' ],  
        'opacity': [ '-=0.1', 'swing' ]  
    },  
    2000,  
    function() {  
        console.log( 'Left and lighter!' );  
    }  
    )  
});
```

Moving left also **reduces** the
opacity by 0.1

MoreAnimate.html

```
$( '.left' ).click( function() {  
    $( '.text' ).animate({  
        'left': [ '-=200', 'swing' ],  
        'opacity': [ '-=0.1', 'swing' ]  
    },  
    2000,  
    function() {  
        console.log( 'Left and lighter!' );  
    }  
    )  
});
```

Each property can specify its own easing function, in this case **swing**

MoreAnimate.html

```
$( '.left' ).click(function() {  
    $( '.text' ).animate({  
        'left': [ '-=200', 'swing' ],  
        'opacity': [ '-=0.1', 'swing' ]  
    },  
    2000,  
    function() {  
        console.log( 'Left and lighter!' );  
    }  
    )  
});
```

Duration and the function to call
when the animation is complete!

EXAMPLE 28

StopAnimate.html

StopAnimate.html

Example28Demo

StopAnimate.html

```
<body>
<div class="start link">
  Start animation!
</div>
<div class="stopone link">
  Stop one animation
</div>
<div class="stopall link">
  Stop all!
</div>
<div class="text">
  Loonycorn
</div>
<div class="text">
  Loonycorn
</div>
<div class="text">
  Loonycorn
</div>
<div class="text">
  Loonycorn
</div>
<div class="text">
  Loonycorn
</div>
<div class="text">
  Loonycorn
</div>
<div class="text">
  Loonycorn
</div>
<br>
</body>
```

Start animation!

Stop one animation

Stop all!

Loonycorn

```
$(document).ready(function () {  
    var randomProperties = [  
        {  
            'left': '-=800',  
            'opacity': '-=0.1'  
        },  
        {  
            'left': '+=800',  
            'opacity': '+=0.1'  
        },  
        {  
            'top': '-=800',  
            'opacity': '-=0.1'  
        },  
        {  
            'top': '+=800',  
            'opacity': '+=0.1'  
        }  
    ];  
  
    $('.start').click(function() {  
        $('.text').each(function() {  
            $(this).animate(  
                randomProperties[Math.floor(Math.random() * randomProperties.length)],  
                16000  
            );  
        });  
    });  
  
    $('.stopone').click(function() {  
        $('.text').filter(':animated').first().stop();  
    });  
  
    $('.stopall').click(function() {  
        $('.text').filter(':animated').stop();  
    });  
});
```

Apply animations at
random to the
Looneycorn text

```
$(document).ready(function () {  
    var randomProperties = [  
        {  
            'left': '-=800',  
            'opacity': '-=0.1'  
        },  
        {  
            'left': '+=800',  
            'opacity': '+=0.1'  
        },  
        {  
            'top': '-=800',  
            'opacity': '-=0.1'  
        },  
        {  
            'top': '+=800',  
            'opacity': '+=0.1'  
        }  
    ];
```

These are 4 objects
which change CSS
properties of an
element

```
    $('start').click(function() {  
        $('.text').each(function() {  
            $(this).animate(  
                randomProperties[Math.floor(Math.random() * randomProperties.length)],  
                16000  
            );  
        });  
    });  
    $('stopone').click(function() {
```

StopAnimate.html

```
$(document).ready(function () {  
  var randomProperties = [  
    {  
      'left': '-=800',  
      'opacity': '-=0.1'  
    },  
    {  
      'left': '+=800',  
      'opacity': '+=0.1'  
    },  
    {  
      'top': '-=800',  
      'opacity': '-=0.1'  
    },  
    {  
      'top': '+=800',  
      'opacity': '+=0.1'  
    }  
  ];  
  
  $('start').click(function() {  
    $('text').each(function() {  
      $(this).animate(  
        randomProperties[Math.floor(Math.random() * randomProperties.length)],  
        16000  
      );  
    });  
  });  
  
  $('stopone').click(function() {
```

This moves the element
to the **left** and **reduces**
the opacity


```
$(document).ready(function () {  
  var randomProperties = [  
    {  
      'left': '-=800',  
      'opacity': '-=0.1'  
    },  
    {  
      'left': '+=800',  
      'opacity': '+=0.1'  
    },  
    {  
      'top': '-=800',  
      'opacity': '-=0.1'  
    },  
    {  
      'top': '+=800',  
      'opacity': '+=0.1'  
    }  
  ];  
});
```

This moves the element
down and increases the
opacity

```
$('.start').click(function() {  
  $('.text').each(function() {  
    $(this).animate(  
      randomProperties[Math.floor(Math.random() * randomProperties.length)],  
      16000  
    );  
  });  
});  
$('.stopone').click(function() {  
  $('.text').each(function() {  
    $(this).animate({  
      'left': '+=800',  
      'opacity': '+=0.1'  
    }, 16000);  
  });  
});
```

StopAnimate.html

```
    top: 100000,
    'opacity': '+=0.1'
  }
];

$($('.start').click(function() {
  $($('.text').each(function() {
    $(this).animate(
      randomProperties[Math.floor(Math.random() * randomProperties.length)],
      16000
    );
  }));
}));

$($('.stopone').click(function() {
  $($('.text').filter(':animated').first().stop();
}));

$($('.stopall').click(function() {
  $($('.text').filter(':animated').stop();
}));
});
```

Clicking the start button kick
starts the animations on the
Loonycorn text

StopAnimate.html

```
    top: 100px;
    'opacity': '+=0.1'
  }
];

$('.start').click(function() {
  $('.text').each(function() {
    $(this).animate(
      randomProperties[Math.floor(Math.random() * randomProperties.length)],
      16000
    );
  });
});

$('.stopone').click(function() {
  $$('.text').filter(':animated').first().stop();
});

$('.stopall').click(function() {
  $$('.text').filter(':animated').stop();
});
});
```

The **.each()** function is a way to iterate over all selected jQuery objects

StopAnimate.html

```
    top: 100px;
    'opacity': '+=0.1'
  }
];

$('.start').click(function() {
  $('.text').each(function() {
    $(this).animate(
      randomProperties[Math.floor(Math.random() * randomProperties.length)],
      16000
    );
  });
});

$('.stopone').click(function() {
  $('.text').filter(':animated').first().stop();
});

$('.stopall').click(function() {
  $('.text').filter(':animated').stop();
});
});
```

The function is applied to every
selected element

StopAnimate.html

```
    top: 100px;
    'opacity': '+=0.1'
  }
];

$('.start').click(function() {
  $('.text').each(function() {
    $(this).animate(
      randomProperties[Math.floor(Math.random() * randomProperties.length)],
      16000
    );
  });
});

$('.stopone').click(function() {
  $('.text').filter(':animated').first().stop();
});

$('.stopall').click(function() {
  $('.text').filter(':animated').stop();
});
});
```

Within the function we kick
start an animation

StopAnimate.html

```
    top: 100px;
    'opacity': '+=0.1'
  }
];

$('.start').click(function() {
  $('.text').each(function() {
    $(this).animate(
      randomProperties[Math.floor(Math.random() * randomProperties.length)],
      16000
    );
  });
});

$('.stopone').click(function() {
  $('.text').filter(':animated').first().stop();
});

$('.stopall').click(function() {
  $('.text').filter(':animated').stop();
});
});
```

Each selected element has a
random animation applied to it

StopAnimate.html

```
    top: 100px;
    'opacity': '+=0.1'
  }
];

$('.start').click(function() {
  $('.text').each(function() {
    $(this).animate(
      randomProperties[Math.floor(Math.random() * randomProperties.length)],
      16000
    );
  });
});

$('.stopone').click(function() {
  $('.text').filter(':animated').first().stop();
});

$('.stopall').click(function() {
  $('.text').filter(':animated').stop();
});
});
```

The animation runs for 16 seconds
(gives us a chance to stop it)


```
});  
});  
$( '.stopone' ).click(function() {  
    $( '.text' ).filter( ':animated' ).first().stop();  
});  
$( '.stopall' ).click(function() {  
    $( '.text' ).filter( ':animated' ).stop();  
});  
});
```

This button stops just **one** of the
animations in progress on this page

```
});  
$( '.stopone' ).click(function() {  
    $( '.text' ).filter( ':animated' ).first().stop();  
});  
$( '.stopall' ).click(function() {  
    $( '.text' ).filter( ':animated' ).stop();  
});  
});
```

The **filter(':animated')** method
selects all animated objects (which
have the “text” class applied)

StopAnimate.html

```
});  
});  
$( '.stopone' ).click(function() {  
    $( '.text' ).filter( ':animated' ).first().stop();  
});  
$( '.stopall' ).click(function() {  
    $( '.text' ).filter( ':animated' ).stop();  
});  
});
```

The animations have to be **in progress**

StopAnimate.html

```
});  
});  
$( '.stopone' ).click(function() {  
    $( '.text' ).filter( ':animated' ).first().stop();  
});  
$( '.stopall' ).click(function() {  
    $( '.text' ).filter( ':animated' ).stop();  
});  
});
```

Find the first one

StopAnimate.html

```
});  
});  
$( '.stopone' ).click(function() {  
    $( '.text' ).filter( ':animated' ).first().stop();  
});  
$( '.stopall' ).click(function() {  
    $( '.text' ).filter( ':animated' ).stop();  
});  
});
```

And stop it!

StopAnimate.html

```
});  
});  
$( '.stopone' ).click(function() {  
    $( '.text' ).filter( ':animated' ).first().stop();  
});  
$( '.stopall' ).click(function() {  
    $( '.text' ).filter( ':animated' ).stop();  
});  
});
```

You can stop all animations in one
go as well

StopAnimate.html

```
});  
});  
$( '.stopone' ).click(function() {  
    $( '.text' ).filter( ':animated' ).first().stop();  
});  
$( '.stopall' ).click(function() {  
    $( '.text' ).filter( ':animated' ).stop();  
});  
});
```

Call the **stop()** function with all
animated elements selected

EXAMPLE 29

DelayAnimate.html

DelayAnimate.html

Example29Demo

DelayAnimate.html

```
<body>
<div class="start link">
  Start
</div>
<div class="text delay">
  Loonycorn
</div>
<div class="text nodeLAY">
  Loonycorn
</div>
<br>
</body>
```

Start

Loonycorn

DelayAnimate.html

```
<body>
<div class="start link">
  Start
</div>
<div class="text delay">
  Loonycorn
</div>
<div class="text nodeLAY">
  Loonycorn
</div>
<br>
</body>
```



Loonycorn

This starts off the animation on
both the Loonycorn elements

DelayAnimate.html

```
<body>
<div class="start link">
  Start
</div>
<div class="text delay">
  Loonycorn
</div>
<div class="text nodeLAY">
  Loonycorn
</div>
<br>
</body>
```



Loonycorn

They start off in the same
position, they are **overlapping**

DelayAnimate.html

```
<body>
<div class="start link">
  Start
</div>
<div class="text delay">
  Loonycorn
</div>
<div class="text nodeLAY">
  Loonycorn
</div>
<br>
</body>
```

Start

Loonycorn

The same animation apply to both
but the first one has a **delay**
between each animation

DelayAnimate.html

```
$(document).ready(function () {
    var randomProperties = [
        {
            'left': '--100',
            'opacity': '--0.1'
        },
        {
            'left': '+=200',
            'opacity': '+=0.1'
        },
        {
            'top': '--50',
            'opacity': '--0.1'
        },
        {
            'top': '+=300',
            'opacity': '+=0.1'
        }
    ];

    $('.start').click(function() {
        $('.nodeLAY').animate(
            randomProperties[0],
            1000
        ).animate(
            randomProperties[1],
            1000
        ).animate(
            randomProperties[2],
            1000
        ).animate(
            randomProperties[3],
            1000
        );

        $('.delay').animate(
            randomProperties[0],
            1000
        ).delay(1500).animate(
            randomProperties[1],
            1000
        ).delay(1500).animate(
            randomProperties[2],
            1000
        ).delay(1500).animate(
            randomProperties[3],
            1000
        );
    });
});
```


DelayAnimate.html

```
$(document).ready(function () {  
  var randomProperties = [  
    {  
      'left': '-=100',  
      'opacity': '-=0.1'  
    },  
    {  
      'left': '+=200',  
      'opacity': '+=0.1'  
    },  
    {  
      'top': '-=50',  
      'opacity': '-=0.1'  
    },  
    {  
      'top': '+=300',  
      'opacity': '+=0.1'  
    }  
  ];  
  
  $('.start').click(function() {  
    $('.nodelay').animate(  
      randomProperties[0],  
      1000  
    ).animate(  
      randomProperties[1],  
      1000  
    ).animate(  
      randomProperties[2],  
      1000  
    ).animate(  
      randomProperties[3],  
      1000  
    );  
  });  
});
```

A bunch of
animation objects
which change the
position and the
opacity

DelayAnimate.html

```
$( '.start' ).click( function() {  
    $( '.nodelay' ).animate(  
        randomProperties[0],  
        1000  
    ).animate(  
        randomProperties[1],  
        1000  
    ).animate(  
        randomProperties[2],  
        1000  
    ).animate(  
        randomProperties[3],  
        1000  
    );  
  
    $( '.delay' ).animate(  
        randomProperties[0],  
        1000  
    ).delay(1500).animate(  
        randomProperties[1],  
        1000  
    ).delay(1500).animate(  
        randomProperties[2],  
        1000  
    ).delay(1500).animate(  
        randomProperties[3],  
        1000  
    );  
});  
});
```

Apply a bunch of
animations **one**
after another on
one element

DelayAnimate.html

```
$( '.start' ).click( function() {  
    $( '.nodelay' ).animate(  
        randomProperties[0],  
        1000  
    ).animate(  
        randomProperties[1],  
        1000  
    ).animate(  
        randomProperties[2],  
        1000  
    ).animate(  
        randomProperties[3],  
        1000  
    );  
};
```

```
$( '.delay' ).animate(  
    randomProperties[0],  
    1000  
).delay(1500).animate(  
    randomProperties[1],  
    1000  
).delay(1500).animate(  
    randomProperties[2],  
    1000  
).delay(1500).animate(  
    randomProperties[3],  
    1000  
);  
});
```

Apply the same
animations to the
other element bt
with a **delay**
between each
animation

DelayAnimate.html

```
$( '.start' ).click( function() {  
    $( '.nodelay' ).animate(  
        randomProperties[0],  
        1000  
    ).animate(  
        randomProperties[1],  
        1000  
    ).animate(  
        randomProperties[2],  
        1000  
    ).animate(  
        randomProperties[3],  
        1000  
    );  
  
    $( '.delay' ).animate(  
        randomProperties[0],  
        1000  
    ).delay(1500).animate(  
        randomProperties[1],  
        1000  
    ).delay(1500).animate(  
        randomProperties[2],  
        1000  
    ).delay(1500).animate(  
        randomProperties[3],  
        1000  
    );  
});  
});
```

The delay here is
1.5 seconds

EXAMPLE 30

ChainingAndQueueing.html

ChainingAndQueueing.html

Start

```
<body>
<div class="start link">
  Start
</div>
<div class="text noqueue">
  Loonycorn
</div>
<div class="text queue">
  Loonycorn
</div>
<div class="text queueagain">
  Loonycorn
</div>
<br>
</body>
```

Loonycorn

Loonycorn

Loonycorn

ChainingAndQueueing.html

Start

```
<body>
<div class="start link">
  Start
</div>
<div class="text noqueue">
  Loonycorn
</div>
<div class="text queue">
  Loonycorn
</div>
<div class="text queueagain">
  Loonycorn
</div>
<br>
</body>
```

Loonycorn

Loonycorn

Loonycorn

ChainingAndQueueing.html

Example30Demo

```
$(document).ready(function () {  
  $('start').click(function () {  
    $('.noqueue')  
      .slideUp(2000)  
      .fadeIn(2000)  
      .hide(2000)  
      .slideDown(2000)  
      .fadeOut(2000)  
      .show(2000)  
      .addClass('highlight')  
      .hide(2000)  
      .fadeIn(2000)  
      .slideDown(2000)  
      .fadeOut(2000)  
      .show(2000);  
  
    $('.queue')  
      .slideUp(2000)  
      .fadeIn(2000)  
      .hide(2000)  
      .slideDown(2000)  
      .fadeOut(2000)  
      .show(2000)  
      .queue(function () {  
        $(this).addClass('highlight');  
        $(this).dequeue();  
      })  
      .hide(2000)  
      .fadeIn(2000)  
      .slideDown(2000)  
      .fadeOut(2000)  
      .show(2000);  
  
    $('.queueagain')  
      .slideUp(2000)  
      .fadeIn(2000)  
      .hide(2000)  
      .slideDown(2000)  
      .fadeOut(2000)  
      .show(2000)  
      .queue(function(next) {  
        $(this).addClass('highlight');  
        next();  
      })  
      .hide(2000)  
      .fadeIn(2000)  
      .slideDown(2000)  
      .fadeOut(2000)  
      .show(2000);  
  });  
});
```

We set up chained
animations on
each Loonycorn
element

```
$(document).ready(function () {  
    $('#noqueue')
```

```
    $( '.noqueue' )  
        .slideUp(2000)  
        .fadeIn(2000)  
        .hide(2000)  
        .slideDown(2000)  
        .fadeOut(2000)  
        .show(2000)  
        .addClass( 'highlight' )  
        .hide(2000)  
        .fadeIn(2000)  
        .slideDown(2000)  
        .fadeOut(2000)  
        .show(2000);
```

```
    $('#queue')  
        .slideUp(2000)  
        .fadeIn(2000)  
        .hide(2000)  
        .slideDown(2000)  
        .fadeOut(2000)  
        .show(2000)  
        .queue(function() {  
            $(this).addClass('highlight');  
            $(this).dequeue();  
        })  
        .hide(2000)  
        .fadeIn(2000)  
        .slideDown(2000)  
        .fadeOut(2000)  
        .show(2000);
```

```
    $('#queueagain')
```

All these
animations are
chained together

ChainingAndQueueing.html

```
$(document).ready(function () {  
    $('.start').click(function () {  
        $( '.noqueue' )  
            .slideUp(2000)  
            .fadeIn(2000)  
            .hide(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000)  
            .addClass( 'highlight' )  
            .hide(2000)  
            .fadeIn(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000);  
    });  
});
```

```
$('.queue')  
    .slideUp(2000)  
    .fadeIn(2000)  
    .hide(2000)  
    .slideDown(2000)  
    .fadeOut(2000)  
    .show(2000)  
    .queue(function() {  
        $(this).addClass('highlight');  
        $(this).dequeue();  
    })  
    .hide(2000)  
    .fadeIn(2000)  
    .slideDown(2000)  
    .fadeOut(2000)  
    .show(2000);
```

```
$('.queueagain')
```

The next
animation begins
when the
previous one ends

ChainingAndQueueing.html

```
$(document).ready(function () {  
    $('.start').click(function () {  
        $( '.noqueue' )  
            .slideUp(2000)  
            .fadeIn(2000)  
            .hide(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000)  
            .addClass( 'highlight' )  
            .hide(2000)  
            .fadeIn(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000);  
    });  
});
```

```
$('.queue')  
    .slideUp(2000)  
    .fadeIn(2000)  
    .hide(2000)  
    .slideDown(2000)  
    .fadeOut(2000)  
    .show(2000)  
    .queue(function() {  
        $(this).addClass('highlight');  
        $(this).dequeue();  
    })  
    .hide(2000)  
    .fadeIn(2000)  
    .slideDown(2000)  
    .fadeOut(2000)  
    .show(2000);
```

```
$('.queueagain')
```

Except for this
one - the
addClass() is **not**
queued up

ChainingAndQueueing.html

```
$(document).ready(function () {  
    $('start').click(function () {  
        $(' .noqueue' )  
            .slideUp(2000)  
            .fadeIn(2000)  
            .hide(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000)  
            .addClass('highlight')  
            .hide(2000)  
            .fadeIn(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000);  
    });  
});
```

```
$('.queue')  
    .slideUp(2000)  
    .fadeIn(2000)  
    .hide(2000)  
    .slideDown(2000)  
    .fadeOut(2000)  
    .show(2000)  
    .queue(function() {  
        $(this).addClass('highlight');  
        $(this).dequeue();  
    })  
    .hide(2000)  
    .fadeIn(2000)  
    .slideDown(2000)  
    .fadeOut(2000)  
    .show(2000);
```

```
$('.queueagain')
```

Instead it is
kicked off at the
start of the
animation chain

ChainingAndQueueing.html

```
$(document).ready(function () {  
    $('.start').click(function () {  
        $( '.noqueue' )  
            .slideUp(2000)  
            .fadeIn(2000)  
            .hide(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000)  
            .addClass( 'highlight' )  
            .hide(2000)  
            .fadeIn(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000);  
    });  
});
```

```
$('.queue')  
    .slideUp(2000)  
    .fadeIn(2000)  
    .hide(2000)  
    .slideDown(2000)  
    .fadeOut(2000)  
    .show(2000)  
    .queue(function() {  
        $(this).addClass('highlight');  
        $(this).dequeue();  
    })  
    .hide(2000)  
    .fadeIn(2000)  
    .slideDown(2000)  
    .fadeOut(2000)  
    .show(2000);
```

```
$('.queueagain')
```

So the Loonycorn
element is
highlighted right
away


```
$(document).ready(function () {  
    $('start').click(function () {  
        $(' .noqueue' )  
            .slideUp(2000)  
            .fadeIn(2000)  
            .hide(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000)  
            .addClass('highlight')  
            .hide(2000)  
            .fadeIn(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000);  
    });  
});
```

```
$('.queue')  
    .slideUp(2000)  
    .fadeIn(2000)  
    .hide(2000)  
    .slideDown(2000)  
    .fadeOut(2000)  
    .show(2000)  
    .queue(function() {  
        $(this).addClass('highlight');  
        $(this).dequeue();  
    })  
    .hide(2000)  
    .fadeIn(2000)  
    .slideDown(2000)  
    .fadeOut(2000)  
    .show(2000);
```

```
$('.queueagain')
```

And the remaining
animations progress
in the order they are
set up

ChainingAndQueueing.html

```
$(document).ready(function () {  
    $('.start').click(function () {  
        $( '.noqueue' )  
            .slideUp(2000)  
            .fadeIn(2000)  
            .hide(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000)  
            .addClass( 'highlight' )  
            .hide(2000)  
            .fadeIn(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000);  
    });  
});
```

```
$('.queue')  
    .slideUp(2000)  
    .fadeIn(2000)  
    .hide(2000)  
    .slideDown(2000)  
    .fadeOut(2000)  
    .show(2000)  
    .queue(function() {  
        $(this).addClass('highlight');  
        $(this).dequeue();  
    })  
    .hide(2000)  
    .fadeIn(2000)  
    .slideDown(2000)  
    .fadeOut(2000)  
    .show(2000);
```

```
$('.queueagain')
```

All animations
except the
addClass() are
implicitly queued

All these
animations are
queued into the
default queue
called **fx**

Except, of course, the `addClass()`

```
$(document).ready(function () {  
    $('start').click(function () {  
        $( '.noqueue' )  
            .slideUp(2000)  
            .fadeIn(2000)  
            .hide(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000)  
            .addClass( 'highlight' )  
            .hide(2000)  
            .fadeIn(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000);  
    });  
});
```

```
$( '.queue' )  
    .slideUp(2000)  
    .fadeIn(2000)  
    .hide(2000)  
    .slideDown(2000)  
    .fadeOut(2000)  
    .show(2000)  
    .queue(function() {  
        $(this).addClass('highlight');  
        $(this).dequeue();  
    })  
    .hide(2000)  
    .fadeIn(2000)  
    .slideDown(2000)  
    .fadeOut(2000)  
    .show(2000);
```

```
$( '.queueagain' )
```

ChainingAndQueueing.html

```
$(document).ready(function () {  
    $('start').click(function () {  
        $( '.noqueue' )
```

```
        .slideUp(2000)  
        .fadeIn(2000)  
        .hide(2000)  
        .slideDown(2000)  
        .fadeOut(2000)  
        .show(2000)  
        .addClass( 'highlight' )  
        .hide(2000)  
        .fadeIn(2000)  
        .slideDown(2000)  
        .fadeOut(2000)  
        .show(2000);
```

```
    $('queue')  
        .slideUp(2000)  
        .fadeIn(2000)  
        .hide(2000)  
        .slideDown(2000)  
        .fadeOut(2000)  
        .show(2000)  
        .queue(function() {  
            $(this).addClass('highlight');  
            $(this).dequeue();  
        })  
        .hide(2000)  
        .fadeIn(2000)  
        .slideDown(2000)  
        .fadeOut(2000)  
        .show(2000);
```

```
    $('queueagain')
```

There is a way to
explicitly add
animations to the
queue as well

ChainingAndQueueing.html

```
$(document).ready(function () {  
    $('start').click(function () {  
        $('.noqueue')  
            .slideUp(2000)  
            .fadeIn(2000)  
            .hide(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000)  
            .addClass('highlight')  
            .hide(2000)  
            .fadeIn(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000);  
  
        $('.queue')  
            .slideUp(2000)  
            .fadeIn(2000)  
            .hide(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000)  
            .queue(function () {  
                $(this).addClass('highlight');  
                $(this).dequeue();  
            })  
            .hide(2000)  
            .fadeIn(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000);  
  
        $('.queueagain')  
            .slideUp(2000)  
            .fadeIn(2000)  
            .hide(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000)  
            .queue(function(next) {  
                $(this).addClass('highlight');  
                next();  
            })  
            .hide(2000)  
            .fadeIn(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000);  
    });  
});
```

ChainingAndQueueing.html

```
.slideDown(2000)  
.fadeOut(2000)  
.show(2000)  
.addClass('highlight')  
.hide(2000)  
.fadeIn(2000)  
.slideDown(2000)  
.fadeOut(2000)  
.show(2000);
```

```
$( '.queue' )  
  .slideUp(2000)  
  .fadeIn(2000)  
  .hide(2000)  
  .slideDown(2000)  
  .fadeOut(2000)  
  .show(2000)  
  .queue(function() {  
    $(this).addClass('highlight');  
    $(this).dequeue();  
  })  
  .hide(2000)  
  .fadeIn(2000)  
  .slideDown(2000)  
  .fadeOut(2000)  
  .show(2000);
```

```
$( '.queueagain' )  
  .slideUp(2000)  
  .fadeIn(2000)  
  .hide(2000)  
  .slideDown(2000)  
  .fadeOut(2000)  
  .show(2000)  
  .queue(function(next) {  
    $(this).addClass('highlight');  
    next();  
  })  
  .hide(2000)
```

Use the **.queue()** method to have the **addClass()** operation be performed as a part of this implicit queue

ChainingAndQueueing.html

```
.slideDown(2000)  
.fadeOut(2000)  
.show(2000)  
.addClass('highlight')  
.hide(2000)  
.fadeIn(2000)  
.slideDown(2000)  
.fadeOut(2000)  
.show(2000);
```

```
$( '.queue' )  
  .slideUp(2000)  
  .fadeIn(2000)  
  .hide(2000)  
  .slideDown(2000)  
  .fadeOut(2000)  
  .show(2000)  
  .queue(function() {  
    $(this).addClass('highlight');  
    $(this).dequeue();  
  })  
  .hide(2000)  
  .fadeIn(2000)  
  .slideDown(2000)  
  .fadeOut(2000)  
  .show(2000);
```

```
$( '.queueagain' )  
  .slideUp(2000)  
  .fadeIn(2000)  
  .hide(2000)  
  .slideDown(2000)  
  .fadeOut(2000)  
  .show(2000)  
  .queue(function(next) {  
    $(this).addClass('highlight');  
    next();  
  })  
  .hide(2000)
```

Add the highlight
within the queue()
function

ChainingAndQueueing.html

```
.slideDown(2000)  
.fadeOut(2000)  
.show(2000)  
.addClass('highlight')  
.hide(2000)  
.fadeIn(2000)  
.slideDown(2000)  
.fadeOut(2000)  
.show(2000);
```

```
$( '.queue' )  
  .slideUp(2000)  
  .fadeIn(2000)  
  .hide(2000)  
  .slideDown(2000)  
  .fadeOut(2000)  
  .show(2000)  
  .queue(function() {  
    $(this).addClass('highlight');  
    $(this).dequeue();  
  })  
  .hide(2000)  
  .fadeIn(2000)  
  .slideDown(2000)  
  .fadeOut(2000)  
  .show(2000);
```

```
$( '.queueagain' )  
  .slideUp(2000)  
  .fadeIn(2000)  
  .hide(2000)  
  .slideDown(2000)  
  .fadeOut(2000)  
  .show(2000)  
  .queue(function(next) {  
    $(this).addClass('highlight');  
    next();  
  })  
  .hide(2000)
```

Call the **dequeue()** method so the execution moves to the next animation in the queue

ChainingAndQueueing.html

```
.slideDown(2000)  
.fadeOut(2000)  
.show(2000)  
.addClass('highlight')  
.hide(2000)  
.fadeIn(2000)  
.slideDown(2000)  
.fadeOut(2000)  
.show(2000);
```

```
$( '.queue' )  
  .slideUp(2000)  
  .fadeIn(2000)  
  .hide(2000)  
  .slideDown(2000)  
  .fadeOut(2000)  
  .show(2000)  
  .queue(function() {  
    $(this).addClass('highlight');  
    $(this).dequeue();  
  })  
  .hide(2000)  
  .fadeIn(2000)  
  .slideDown(2000)  
  .fadeOut(2000)  
  .show(2000);
```

```
$( '.queueagain' )  
  .slideUp(2000)  
  .fadeIn(2000)  
  .hide(2000)  
  .slideDown(2000)  
  .fadeOut(2000)  
  .show(2000)  
  .queue(function(next) {  
    $(this).addClass('highlight');  
    next();  
  })  
  .hide(2000)
```

Without this
method, the
execution will
stop right here

ChainingAndQueueing.html

```
$(document).ready(function () {  
    $('start').click(function () {  
        $('.noqueue')  
            .slideUp(2000)  
            .fadeIn(2000)  
            .hide(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000)  
            .addClass('highlight')  
            .hide(2000)  
            .fadeIn(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000);  
  
        $('.queue')  
            .slideUp(2000)  
            .fadeIn(2000)  
            .hide(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000)  
            .queue(function () {  
                $(this).addClass('highlight');  
                $(this).dequeue();  
            })  
            .hide(2000)  
            .fadeIn(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000);  
  
        $('.queueagain')  
            .slideUp(2000)  
            .fadeIn(2000)  
            .hide(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000)  
            .queue(function(next) {  
                $(this).addClass('highlight');  
                next();  
            })  
            .hide(2000)  
            .fadeIn(2000)  
            .slideDown(2000)  
            .fadeOut(2000)  
            .show(2000);  
    });  
});
```

ChainingAndQueueing.html

```
.fadeOut(2000)  
.show(2000)  
.queue(function() {  
    $(this).addClass('highlight');  
    $(this).dequeue();  
})  
.hide(2000)  
.fadeIn(2000)  
.slideDown(2000)  
.fadeOut(2000)  
.show(2000);
```

```
$( '.queueagain' )  
    .slideUp(2000)  
    .fadeIn(2000)  
    .hide(2000)  
    .slideDown(2000)  
    .fadeOut(2000)  
    .show(2000)  
    .queue(function(next) {  
        $(this).addClass('highlight');  
        next();  
    })  
    .hide(2000)  
    .fadeIn(2000)  
    .slideDown(2000)  
    .fadeOut(2000)  
    .show(2000);
```

```
});
```

```
});
```

The .queue()
function can be
implemented a
little differently
as well

ChainingAndQueueing.html

```
.fadeOut(2000)  
.show(2000)  
.queue(function() {  
    $(this).addClass('highlight');  
    $(this).dequeue();  
})  
.hide(2000)  
.fadeIn(2000)  
.slideDown(2000)  
.fadeOut(2000)  
.show(2000);
```

```
$( '.queueagain' )  
    .slideUp(2000)  
    .fadeIn(2000)  
    .hide(2000)  
    .slideDown(2000)  
    .fadeOut(2000)  
    .show(2000)  
    .queue(function(next) {  
        $(this).addClass('highlight');  
        next();  
    })  
    .hide(2000)  
    .fadeIn(2000)  
    .slideDown(2000)  
    .fadeOut(2000)  
    .show(2000);
```

```
});
```

It accepts an input
argument - a
function which calls
\$(this).dequeue() for
you

ChainingAndQueueing.html

```
.fadeOut(2000)  
.show(2000)  
.queue(function() {  
    $(this).addClass('highlight');  
    $(this).dequeue();  
})  
.hide(2000)  
.fadeIn(2000)  
.slideDown(2000)  
.fadeOut(2000)  
.show(2000);
```

```
$( '.queueagain' )  
    .slideUp(2000)  
    .fadeIn(2000)  
    .hide(2000)  
    .slideDown(2000)  
    .fadeOut(2000)  
    .show(2000)  
    .queue(function(next) {  
        $(this).addClass('highlight');  
        next();  
    })  
    .hide(2000)  
    .fadeIn(2000)  
    .slideDown(2000)  
    .fadeOut(2000)  
    .show(2000);
```

```
});
```

```
});
```

Just call this
function after
performing all the
operations within
this function

EXAMPLE 31

CustomQueues.html

CustomQueues.html

```
<body>
<div class="fontsize link">
  Font Size
</div>
<div class="motion link">
  Motion
</div>
<div class="text">
  Loonycorn
</div>
<br>
</body>
```

Font Size

Motion

Loonycorn

CustomQueues.html

```
<body>
<div class="fontsize link">
  Font Size
</div>
<div class="motion link">
  Motion
</div>
<div class="text">
  Loonycorn
</div>
<br>
</body>
```

Font Size

Motion

Loonycorn

There are 2 sets of animations:

One which changes the font size

One which moves the element

CustomQueues.html

```
<body>
<div class="fontsize link">
  Font Size
</div>
<div class="motion link">
  Motion
</div>
<div class="text">
  Loonycorn
</div>
<br>
</body>
```

Font Size

Motion

Loonycorn

Each of the animations
are added to different
queues

CustomQueues.html

```
<body>
<div class="fontsize link">
  Font Size
</div>
<div class="motion link">
  Motion
</div>
<div class="text">
  Loonycorn
</div>
<br>
</body>
```

Font Size

Motion

Loonycorn

None of the animations
are in the default **fx** queue

CustomQueues.html

```
$(document).ready(function () {  
    $('text').queue('fontsize', function(next) {  
        $(this).animate({'font-size': '22px'}, 1000);  
        next();  
    }).queue('motion', function(next) {  
        $(this).animate({'left': '+=250'}, 1000);  
        next();  
    }).queue('fontsize', function(next) {  
        $(this).animate({'font-size': '66px'}, 1000);  
        next();  
    }).queue('motion', function(next) {  
        $(this).animate({'top': '+=100'}, 1000);  
        next();  
    }).queue('fontsize', function(next) {  
        $(this).animate({'font-size': '88px'}, 1000);  
        next();  
    }).queue('motion', function(next) {  
        $(this).animate({'left': '-=200'}, 1000);  
        next();  
    }).queue('fontsize', function(next) {  
        $(this).animate({'font-size': '55px'}, 1000);  
        next();  
    }).queue('motion', function(next) {  
        $(this).animate({'top': '-=80'}, 1000);  
        next();  
    });  
  
    $('fontsize').click(function() {  
        $('text').dequeue('fontsize');  
    });  
    $('motion').click(function() {  
        $('text').dequeue('motion');  
    });  
});
```

One queue for fonts
and one queue for
motion

CustomQueues.html

```
$(document).ready(function() {  
    $('.text').queue('fontsize', function(next) {  
        $(this).animate({'font-size': '22px'}, 1000);  
        next();  
    }).queue('motion', function(next) {  
        $(this).animate({'left': '+=250'}, 1000);  
        next();  
    }).queue('fontsize', function(next) {  
        $(this).animate({'font-size': '66px'}, 1000);  
        next();  
    }).queue('motion', function(next) {  
        $(this).animate({'top': '+=100'}, 1000);  
        next();  
    }).queue('fontsize', function(next) {  
        $(this).animate({'font-size': '88px'}, 1000);  
        next();  
    }).queue('motion', function(next) {  
        $(this).animate({'left': '-=200'}, 1000);  
        next();  
    }).queue('fontsize', function(next) {  
        $(this).animate({'font-size': '55px'}, 1000);  
        next();  
    }).queue('motion', function(next) {  
        $(this).animate({'top': '-=80'}, 1000);  
        next();  
    });  
});
```

Add a font-size
animation

```
$('.fontsize').click(function() {  
    $('.text').dequeue('fontsize');  
});
```

CustomQueues.html

```
$(document).ready(function() {  
    $('text').queue('fontSize', function(next) {  
        $(this).animate({'font-size': '22px'}, 1000);  
        next();  
    }).queue('motion', function(next) {  
        $(this).animate({'left': '+=250'}, 1000);  
        next();  
    }).queue('fontSize', function(next) {  
        $(this).animate({'font-size': '66px'}, 1000);  
        next();  
    }).queue('motion', function(next) {  
        $(this).animate({'top': '+=100'}, 1000);  
        next();  
    }).queue('fontSize', function(next) {  
        $(this).animate({'font-size': '88px'}, 1000);  
        next();  
    }).queue('motion', function(next) {  
        $(this).animate({'left': '-=200'}, 1000);  
        next();  
    }).queue('fontSize', function(next) {  
        $(this).animate({'font-size': '55px'}, 1000);  
        next();  
    }).queue('motion', function(next) {  
        $(this).animate({'top': '-=80'}, 1000);  
        next();  
    });  
});
```

```
$('.fontSize').click(function() {  
    $('text').dequeue('fontSize');  
});
```

On the **fontSize**
queue

CustomQueues.html

```
$(document).ready(function () {  
    $('text').queue('fontsize', function(next) {  
        $(this).animate({'font-size': '22px'}, 1000);  
        next();  
    }).queue('motion', function(next) {  
        $(this).animate({'left': '+=250'}, 1000);  
        next();  
    }).queue('fontsize', function(next) {  
        $(this).animate({'font-size': '66px'}, 1000);  
        next();  
    }).queue('motion', function(next) {  
        $(this).animate({'top': '+=100'}, 1000);  
        next();  
    }).queue('fontsize', function(next) {  
        $(this).animate({'font-size': '88px'}, 1000);  
        next();  
    }).queue('motion', function(next) {  
        $(this).animate({'left': '-=200'}, 1000);  
        next();  
    }).queue('fontsize', function(next) {  
        $(this).animate({'font-size': '55px'}, 1000);  
        next();  
    }).queue('motion', function(next) {  
        $(this).animate({'top': '-=80'}, 1000);  
        next();  
    });  
});
```

```
$('.fontsize').click(function() {  
    $('.text').dequeue('fontsize');  
});
```

The next animation
moves the elements
and is added to the
motion queue

CustomQueues.html

```
$(document).ready(function () {  
    $('text').queue('fontsize', function(next) {  
        $(this).animate({'font-size': '22px'}, 1000);  
        next();  
    }).queue('motion', function(next) {  
        $(this).animate({'left': '+=250'}, 1000);  
        next();  
    }).queue('fontsize', function(next) {  
        $(this).animate({'font-size': '66px'}, 1000);  
        next();  
    }).queue('motion', function(next) {  
        $(this).animate({'top': '+=100'}, 1000);  
        next();  
    }).queue('fontsize', function(next) {  
        $(this).animate({'font-size': '88px'}, 1000);  
        next();  
    }).queue('motion', function(next) {  
        $(this).animate({'left': '-=200'}, 1000);  
        next();  
    }).queue('fontsize', function(next) {  
        $(this).animate({'font-size': '55px'}, 1000);  
        next();  
    }).queue('motion', function(next) {  
        $(this).animate({'top': '-=80'}, 1000);  
        next();  
    });  
});
```

```
$('.fontsize').click(function() {  
    $('text').dequeue('fontsize');  
});
```

Animations are
added to one queue
or the other at
random

CustomQueues.html

```
$(document).ready(function () {  
  $('text').queue('fontSize', function(next) {  
    $(this).animate({'font-size': '22px'}, 1000);  
    next();  
  }).queue('motion', function(next) {  
    $(this).animate({'left': '+=250'}, 1000);  
    next();  
  }).queue('fontSize', function(next) {  
    $(this).animate({'font-size': '66px'}, 1000);  
    next();  
  }).queue('motion', function(next) {  
    $(this).animate({'top': '+=100'}, 1000);  
    next();  
  }).queue('fontSize', function(next) {  
    $(this).animate({'font-size': '88px'}, 1000);  
    next();  
  }).queue('motion', function(next) {  
    $(this).animate({'left': '-=200'}, 1000);  
    next();  
  }).queue('fontSize', function(next) {  
    $(this).animate({'font-size': '55px'}, 1000);  
    next();  
  }).queue('motion', function(next) {  
    $(this).animate({'top': '-=80'}, 1000);  
    next();  
  });  
  
  $('fontSize').click(function() {  
    $('text').dequeue('fontSize');  
  });  
  $('motion').click(function() {  
    $('text').dequeue('motion');  
  });  
});
```

It's possible to just
dequeue all
animations which
belong to either
queue individually

CustomQueues.html

```
next(),
}).queue('fontsize', function(next) {
  $(this).animate({'font-size': '88px'}, 1000);
  next();
}).queue('motion', function(next) {
  $(this).animate({'left': '-=200'}, 1000);
  next();
}).queue('fontsize', function(next) {
  $(this).animate({'font-size': '55px'}, 1000);
  next();
}).queue('motion', function(next) {
  $(this).animate({'top': '-=80'}, 1000);
  next();
});
```

```
$( '.fontsize' ).click(function() {
  $( '.text' ).dequeue( 'fontsize' );
});
$( '.motion' ).click(function() {
  $( '.text' ).dequeue( 'motion' );
});
```

```
});
```

This applies **only**
those animations
added to the
fontsize queue

CustomQueues.html

```
next();
}).queue('fontsize', function(next) {
    $(this).animate({'font-size': '88px'}, 1000);
    next();
}).queue('motion', function(next) {
    $(this).animate({'left': '-=200'}, 1000);
    next();
}).queue('fontsize', function(next) {
    $(this).animate({'font-size': '55px'}, 1000);
    next();
}).queue('motion', function(next) {
    $(this).animate({'top': '-=80'}, 1000);
    next();
});
```

```
$( '.fontsize' ).click(function() {
    $( '.text' ).dequeue( 'fontsize' );
});
$( '.motion' ).click(function() {
    $( '.text' ).dequeue( 'motion' );
});
```

```
});
```

And this dequeues
the animations on
the **motion** queue

CustomQueues.html

```
next();
}).queue('fontsize', function(next) {
  $(this).animate({'font-size': '88px'}, 1000);
  next();
}).queue('motion', function(next) {
  $(this).animate({'left': '-=200'}, 1000);
  next();
}).queue('fontsize', function(next) {
  $(this).animate({'font-size': '55px'}, 1000);
  next();
}).queue('motion', function(next) {
  $(this).animate({'top': '-=80'}, 1000);
  next();
});
```

```
$( '.fontsize' ).click(function() {
  $( '.text' ).dequeue( 'fontsize' );
});
$( '.motion' ).click(function() {
  $( '.text' ).dequeue( 'motion' );
});
```

Every queue other
than the default fx
queue has to be
kicked off
manually

CustomQueues.html

```
next();  
}).queue('fontsize', function(next) {  
    $(this).animate({'font-size': '88px'}, 1000);  
    next();  
}).queue('motion', function(next) {  
    $(this).animate({'left': '-=200'}, 1000);  
    next();  
}).queue('fontsize', function(next) {  
    $(this).animate({'font-size': '55px'}, 1000);  
    next();  
}).queue('motion', function(next) {  
    $(this).animate({'top': '-=80'}, 1000);  
    next();  
});
```

```
$( '.fontsize' ).click(function() {  
    $( '.text' ).dequeue( 'fontsize' );  
});  
$( '.motion' ).click(function() {  
    $( '.text' ).dequeue( 'motion' );  
});
```

```
});
```

The dequeue
followed by the
queue name is the
manual kick off

CustomQueues.html

```
$(document).ready(function () {
    $('.text').queue('fontsize', function(next) {
        $(this).animate({'font-size': '22px'}, 1000);
        next();
    }).queue('motion', function(next) {
        $(this).animate({'left': '+=250'}, 1000);
        next();
    }).queue('fontsize', function(next) {
        $(this).animate({'font-size': '66px'}, 1000);
        next();
    }).queue('motion', function(next) {
        $(this).animate({'top': '+=100'}, 1000);
        next();
    }).queue('fontsize', function(next) {
        $(this).animate({'font-size': '88px'}, 1000);
        next();
    }).queue('motion', function(next) {
        $(this).animate({'left': '-=200'}, 1000);
        next();
    }).queue('fontsize', function(next) {
        $(this).animate({'font-size': '55px'}, 1000);
        next();
    }).queue('motion', function(next) {
        $(this).animate({'top': '-=80'}, 1000);
        next();
    });

    $('.fontsize').click(function() {
        $('.text').dequeue('fontsize');
    });
    $('.motion').click(function() {
        $('.text').dequeue('motion');
    });
});
```

CustomQueues.html

Example32Demo

EXAMPLE 32

BypassingTheQueue.html

You have a chain of animations

They execute one after another in
a **sequence** i.e they are on a **queue**

BypassingTheQueue.html

You have a chain of animations

They execute one after another in
a **sequence** i.e they are on a **queue**

You might want one of them to **cut**
the queue and execute right away!

BypassingTheQueue.html

```
<body>
<div class="start link">
  Start
</div>
<div class="text">
  Loonycorn
</div>
<br>
</body>
```

Start

Loonycorn

BypassingTheQueue.html

```
$(document).ready(function () {  
    $('start').click(function () {  
        $('.text')  
        .fadeTo(1500, '0.5')  
        .slideUp()  
        .slideDown()  
        .queue(function(next) {  
            $(this).animate({'left': '+=250'}, 1000);  
            next();  
        })  
        .animate({  
            'font-size': '99px'  
        }, {  
            'duration': 4000,  
            'queue': false,  
            'start': function() {console.log('Font size animation start');},  
            'easing': 'linear'  
        });  
    });  
});
```

Here is a bunch of
animation we've
added on the
Loonycorn element

BypassingTheQueue.html

```
$(document).ready(function () {  
  $$('.start').click(function () {  
    $$('.text')  
      .fadeTo(1500, '0.5')  
      .slideUp()  
      .slideDown()  
      .queue(function(next) {  
        $(this).animate({'left': '+=250'}, 1000);  
        next();  
      })  
      .animate({  
        'font-size': '99px'  
      }, {  
        'duration': 4000,  
        'queue': false,  
        'start': function() {console.log('Font size animation start');},  
        'easing': 'linear'  
      });  
  });  
});
```

The first few
animations are on
the default queue

BypassingTheQueue.html

We don't want this
last animation to
execute at the end

```
$(document).ready(function () {  
    $('start').click(function () {  
        $('text')  
        .fadeTo(1500, '0.5')  
        .slideUp()  
        .slideDown()  
        .queue(function(next) {  
            $(this).animate({'left': '+=250'}, 1000);  
            next();  
        })  
        .animate({  
            'font-size': '99px'  
        }, {  
            'duration': 4000,  
            'queue': false,  
            'start': function() {console.log('Font size animation start');},  
            'easing': 'linear'  
        });  
    });  
});
```

BypassingTheQueue.html

This animation should
bypass the queue!

```
$(document).ready(function () {  
    $('start').click(function () {  
        $('text')  
        .fadeTo(1500, '0.5')  
        .slideUp()  
        .slideDown()  
        .queue(function(next) {  
            $(this).animate({'left': '+=250'}, 1000);  
            next();  
        })  
        .animate({  
            'font-size': '99px'  
        }, {  
            'duration': 4000,  
            'queue': false,  
            'start': function() {console.log('Font size animation start');},  
            'easing': 'linear'  
        });  
    });  
});
```


Notice that the arguments to the `animate()` function is a little different

```
.animate({  
  'font-size': '99px'  
}, {  
  'duration': 4000,  
  'queue': false,  
  'start': function() {console.log('Font size animation start');},  
  'easing': 'linear'  
});
```

An object with the CSS properties to change with effects

```
.animate({  
  'font-size': '99px'  
}, {  
  'duration': 4000,  
  'queue': false,  
  'start': function() {console.log('Font size animation start');},  
  'easing': 'linear'  
});
```

An object with a bunch of options
which **control** the animation

```
$(document).ready(function() {  
    $('.start').click(function() {  
        $('.text')  
            .fadeTo(1500, 0.5)  
            .slideUp(1000)  
            .slideDown(1000)  
            .queue(function(next) {  
                $(this).animate({'left': '+=250'}, 1000);  
                next();  
            })  
    });  
});
```

```
.animate({  
    'font-size': '99px'  
}, {  
    'duration': 4000,  
    'queue': false,  
    'start': function() {console.log('Font size animation start');},  
    'easing': 'linear'  
});
```

```
});  
});
```

BypassingTheQueue.html

The duration of the animation

```
$(document).ready(function () {  
    $('.start').click(function () {  
        $('.text')  
            .fadeTo(500, 0.5)  
            .slideUp()  
            .slideDown()  
            .queue(function(next) {  
                $(this).animate({'left': '+=250'}, 1000);  
                next();  
            })  
            .animate({  
                'font-size': '99px'  
            }, {  
                'duration': 4000,  
                'queue': false,  
                'start': function() {console.log('Font size animation start');},  
                'easing': 'linear'  
            });  
    });  
});
```

BypassingTheQueue.html

queue = false indicates that
the animation should not be
part of the queue

```
$(document).ready(function() {  
    $('.start').click(function() {  
        $('.text').  
            .fadeOut(1000, 4000) // 1000ms fade out, 4000ms delay  
            .slideUp() // 4000ms delay  
            .slideDown() // 4000ms delay  
            .queue(function(next) {  
                $(this).animate({left: '+=250px'}, 1000);  
                next();  
            })  
            .animate({  
                'font-size': '99px'  
            }, {  
                'duration': 4000,  
                'queue': false,  
                'start': function() {console.log('Font size animation start');},  
                'easing': 'linear'  
            });  
    });  
});
```

BypassingTheQueue.html

The default value for queue is
true

```
$(document).ready(function() {  
    $('.start').click(function() {  
        $('.text')  
            .fadeTo(1500, '0.5')  
            .slideUp()  
            .slideDown()  
            .queue(function(next) {  
                $(this).animate({'left': '+=250'}, 1000);  
                next();  
            })  
            .animate({  
                'font-size': '99px'  
            }, {  
                'duration': 4000,  
                'queue': false,  
                'start': function() {console.log('Font size animation start');},  
                'easing': 'linear'  
            });  
    });  
});
```

The function to call at the start of the animation

```
$(document).ready(function() {  
    $('.start').click(function() {  
        $('.text')  
            .fadeTo(1500, '0.5')  
            .slideUp()  
            .slideDown()  
            .queue(function(next) {  
                $(this).animate({'left': '+=250'}, 1000);  
                next();  
            })  
            .animate({  
                'font-size': '99px'  
            }, {  
                'duration': 4000,  
                'queue': false,  
                'start': function() {console.log('Font size animation start');},  
                'easing': 'linear'  
            });  
    });  
});
```


BypassingTheQueue.html

The easing function

```
$(document).ready(function () {  
    $('.start').click(function () {  
        $('.text')  
            .fadeTo(1500, '0.5')  
            .slideUp()  
            .slideDown()  
            .queue(function(next) {  
                $(this).animate({'left': '+=250'}, 1000);  
                next();  
            })  
            .animate({  
                'font-size': '99px'  
            }, {  
                'duration': 4000,  
                'queue': false,  
                'start': function() {console.log('Font size animation start');},  
                'easing': 'linear'  
            });  
    });  
});
```

BypassingTheQueue.html

Example32Demo with queue false and true