

Transitions, Animations & JQuery ---

Oh my!

What is a Transition?

Transitions are effects that occur once triggered.

In order to use them you must first specify two things:

- The CSS property you want to add an effect to
- The duration of the effect

Note: If the duration part is not specified, the transition will have no effect because the default value is automatically set to 0

Transition Example

Ex: `div {width: 100px;
 height: 100px;
 background: red;
 transition: width 2s;}`

`div:hover {width:300px}`

What is an Animation?

An animation is an effect that occurs *without* any triggers. Instead they function similar to AfterEffects animations, with keyframes. You must specify these keyframes for the animation. Keyframes hold what styles the element will have at certain times.

Animation Keyframes Example

```
@keyframes example {  
  0% {background-color:red; left:0px; top:0px;}  
  25% {background-color:yellow; left:200px; top:0px;}  
  50% {background-color:blue; left:200px; top:200px;}  
  75% {background-color:green; left:0px; top:200px;}  
  100% {background-color:red; left:0px; top:0px;}  
}
```

Animation Example

Ex: `div {width: 100px;
 height: 100px;
 background: red;
 position: relative;
 animation-name: example;
 animation-duration: 5s;
 animation-delay: 2s;
 animation-iteration-count: infinite;
 animation-direction: alternate;}` or

`animation: example 5s linear 2s infinite alternate;`

What is JQuery?

JQuery is shorthand for **Javascript**

With this tool you can do almost anything– *depending on how much time you want to dedicate to getting it to work on your websites that is.*

JQuery allows you to target specific elements in your HTML / CSS and assign specific functions that can be triggered

For example:

- trigger a drop down menu when you click it
- Create photo sliders that autoplay
- Animate a smooth scroll to a page anchor
- Sort objects by filter

JQuery Examples

In order for any of this to work you first need this in your **<head>** :
`<script src="jquery-3.3.1.min.js" type="text/javascript"></script>`

Ex: `<script>`

```
$(document).ready(function() {  
    $('div').mouseenter (function(){  
        $(this).fadeOut(1000);  
    });  
});
```

`</script>`