

Web Development Club: Week 10



CSS transitions and animations



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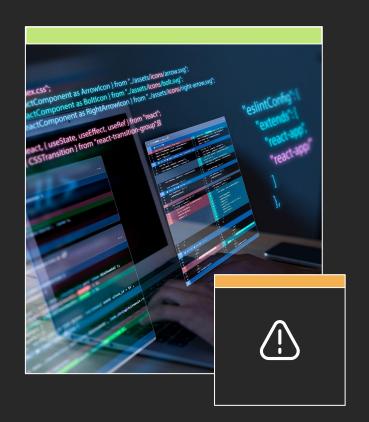
Practice

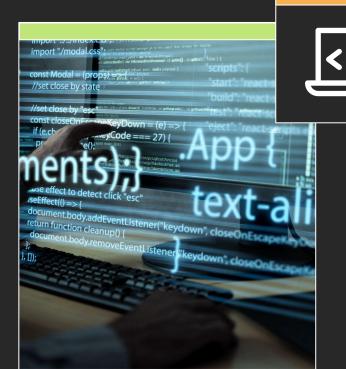
03

Animations

- In week 9 we did a winter break competition to build a website including a snowman made entirely out of HTML
- The winner would be awarded any item (within reason) from QT!
- We would then vote on the winner!

And the winner is...





Winner:

Jason



CSS Transitions

Transition

- Transition
 - Shorthand property that sets different properties to translate an element in a single declaration.
- Transition-delay
 - Specifies how long an element should wait before beginning a transition.
- Transition-duration
 - Specifies how long an elements transition should take to complete.
- Transition-property
 - \circ Specifies the property or properties of an element that a transition effect should apply to.
- Transition-timing-function
 - Specifies the speed of a transition effect over the course of its duration.



CSS Transition Example

```
<style>
div {
 width: 100px;
 height: 100px;
 background: red;
 transition: width 2s;
 Transition-timing-function:
 linear;
                  See this transition in
                  action:
div:hover {
                  W3Schools HTML
                  editor
 width: 300px;
```

</style>

The transition-timing-function property can have the following values:

- ease specifies a transition effect with a slow start, then fast, then end slowly (this is default)
- linear specifies a transition effect with the same speed from start to end
- ease-in specifies a transition effect with a slow start
- ease-out specifies a transition effect with a slow end
- ease-in-out specifies a transition effect with a slow start and end



CSS Animations

CSS allows for animations without using Javascript!

- Keyframes hold what CSS styles the element will have at certain times. The animation will gradually change from the current style to the new style during the keyframe
- The animation-duration property defines how long an animation should take to complete.
- When an animation is finished it goes back to its original style
- You can also specify aspects like:
 - o animation-name
 - animation-duration
 - animation-delay
 - o animation-iteration-count
 - animation-direction
 - animation-timing-function
 - animation-fill-mode
 - animation

000

CSS Animations Example

```
<style>
div {
  width: 100px;
  height: 100px;
  background-color: red;
  position: relative;
  animation-name: example;
  animation-duration: 4s;
@keyframes example {
                                                             See this animation in action:
       {background-color:red; left:0px; top:0px;}
                                                             W3Schools HTML editor
       {background-color:yellow; left:200px; top:0px;}
       {background-color:blue; left:200px; top:200px;}
       {background-color:green; left:0px; top:200px;}
  100% {background-color:red; left:0px; top:0px;}
</style>
```



Practice

Time to Practice on your own!

Feel free to ask for help!