{LET'S CODE}

Coding Academy

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6. Web Animations

Web Animations

- Is a great tool to make your website brighter and more interactive.
- Is a crucial part of the user experience.
- Makes your webApp more friendly.

CSS Animations

CSS animations make possible transition between different states using a set of keyframes.

Transition

```css
.transitionAnimation{
    width: 250px;
    height: 250px;
    border: 5px solid greenyellow;
    transition: width 2s;
}
.transitionAnimation:hover{
    width: 150px;
    height: 150px;
    transition: width 2s;
}
```

Transform

```css
.transitionAnimation{
   width: 250px;
   height: 250px;
   border: 5px solid greenyellow;
   transition: width 2s;
}
.transitionAnimation:hover{
   width: 150px;
   height: 150px;
   transition: width 2s;
}
```

Animation

```css
.divAnimation{
  position: relative;
  animation: mymove 5s infinite;
  -webkit-animation: mymove 5s infinite;
/* Safari 4.0 - 8.0 */
}
@-webkit-keyframes mymove {
  from {left: 0;}
  to {left: 70%;}
}
@keyframes mymove {
  from {left: 0;}
  to {left: 70%;}
}
```

- animation-name
- animation-duration
- animation-timing-function
- animation-delay
- animation-iteration-count
- animation-direction
- animation-fill-mode
- animation-play-state

Animate.css (https://github.com/daneden/animate.css?files=1)

```html
<!DOCTYPE html>
<html>
<head>
  <link rel="stylesheet" href="animate.min.css">
</head>

<body>
  <h1 class="animated infinite bounce">Example</h1>
</body>
</html>
```
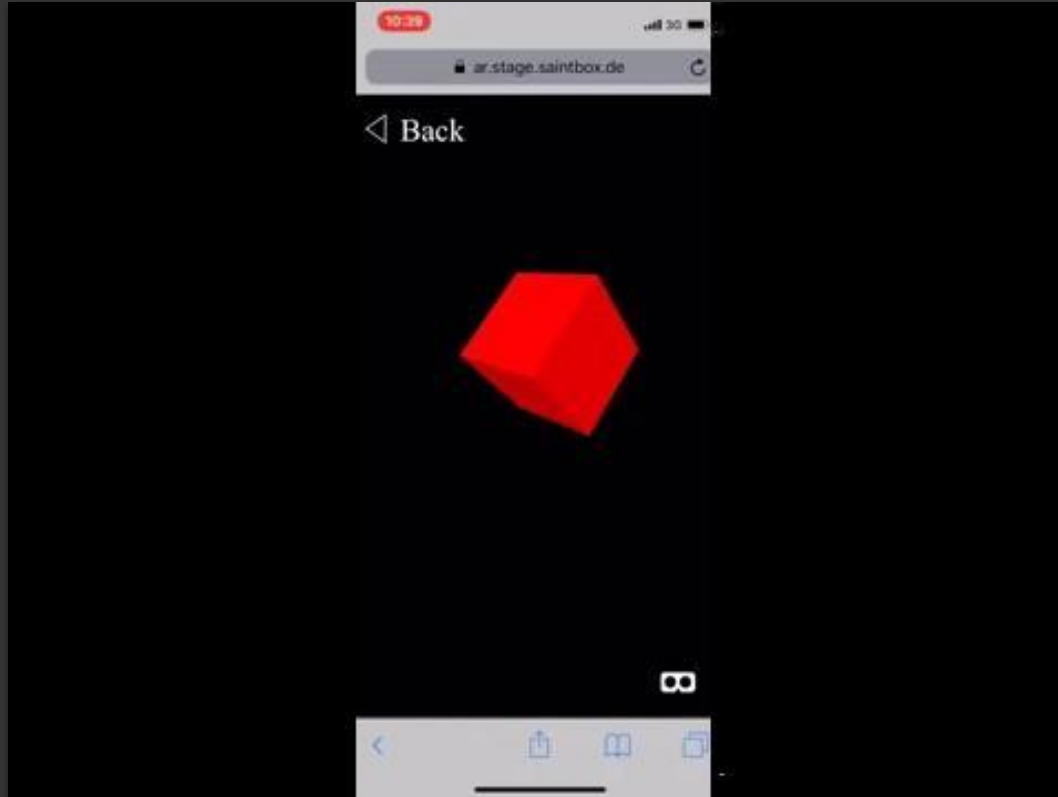
JavaScript Animations

With JavaScript animations you have more options and control over your website.

Canvas Animations

Has a great performance while animating 2D and 3D objects.

Canvas

SVG Animations (Scalable Vector Graphics)

Using vector graphics it has no pixel limitations.
SVGs look the same and don't lose quality while resizing the page.

SVG

```
<!DOCTYPE html>
<html>
<body>

<svg width="100" height="100">
  <circle cx="50" cy="50" r="40" stroke="green"
stroke-width="4" fill="yellow"></circle>
</svg>


</body>
</html>
```
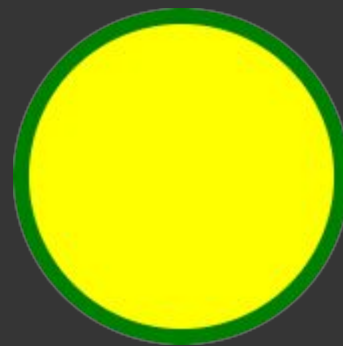
SVG (https://www.w3schools.com/graphics/svg_intro.asp)

```
<svg width="100" height="100">
  <circle cx="50" cy="50" r="40" stroke="green" stroke-width="4" fill="yellow">

    <animate attributeType="CSS" attributeName="opacity" from="1" to="0"
dur="3s" repeatCount="indefinite" />

  </circle>
</svg>
```

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The End.

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