Animation

Name: Rahul Chauhan
Roll No: 202210101310142
Course: BCA - 4C
Submitted To: Dr. NityaNand Dwivedi
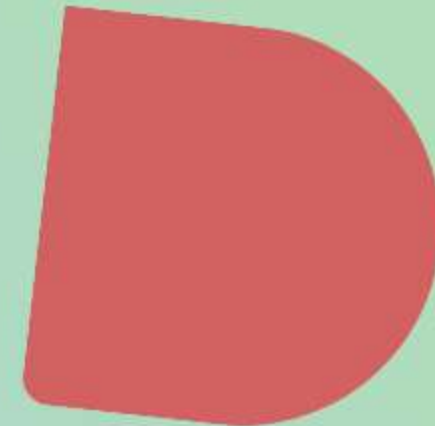
Table of content

Introduction to Animation

CSS Animation

CSS is a styling tool that lets you add styling to your website, well CSS Animation lets you add motion to you website, which can make any website beautiful if done properly.

CSS Animation, is easy to create and it does not even require any "JavaScript" to work.

Basic Animation Properties

animation: rot 2s infinite ease;

animation-name: specifies name for animation.

animation-duration: specifies how long it'll take to complete entire animation.

animation-timing-function: `ease`, `linear`, they are timing function to interpolate between start and end of the frame.

Keyframe Animation

@keyframe ripple

Keyframe allows us to create complex animation, because it lets us change the animation throught the timeline.

Either, we can use `from - to` property to transition, or use `n%` property to pin-point the frame.

Transition Animation

transition: font-size 2s;

Transition animation, creates a timeline from where an object start and end.

However, it is different from keyframe animation, which lets us change each indvidual frame of the animation, with different properties.

CSS Animation

Easing Function

```
animation-timing-function: ease;
```

Timing Function, property sets how an animation progresses through the duration of each cycle.

It creates a curve on how much it needs to accelerate.
ease: slows down as it gets to the end.
linear: it has same speed from starting to end.

HELLO!

What is Bezier Curve?

Curve with anti-aliasing

A Bezier curve is a mathematical curve that is widely used in computer graphics, animation, and design.

Bezier curves are defined by control points that determine the shape and trajectory of the curve. The curve starts at the first control point, ends at the last control point, and is influenced by intermediate control points.

Creating Custom Easing Function

```
animation-timing-function: cubic-
        bezier(p1, p2, p3, p4);
```

Timing Function, property sets how an animation progresses through the duration of each cycle.

It creates a curve on how much it needs to accelerate.

ease: slows down as it gets to the end.

linear: it has same speed from starting to end.

Responsive CSS Animation

@media screen and (min-width: 480px)

Media query, makes website easy to port on different devices with different screen sizes; because we can have set of things for one screen size and another of things for another screen size.
It has different properties to work with, like `screen`, `oreintation`, `print`, and different size property.

HELLO!

Summary

What we learnt?

* CSS Animation, is tool that makes it easy to add motion in website.

* CSS Animation, has different properties to work with.

* CSS Animation, it is easy to implement.

Thank You!