

Motion Dev

ACM Spark

Why Motion Dev?

Why Motion Dev specifically?

- Very simple to get started
- Created using React hooks, allowing for optimal performance on React apps
- Can be used dynamically with React for more complex animations
 - Beyond the scope of this program

Setup

Setup

- npm install motion
- If you are the first person to integrate, then you need to install motion directly
- Otherwise, just run npm i to integrate it into your local packages

Setup

- "use client";
 - Render elements on the client's side
- import { motion } from "motion/react"
- Include this line at the top of your component to import the package
 - Similar how you import useState or useEffect at the top of each file

Application

animate

- Similar to adding className to apply Tailwind properties, add a animate element to the motion div
- Renders once when the page is initially loaded

transition

- Take further control by adding durations and delays
- These are elements of the transition property

initial

- Starts off with the state in initial applied
- Ends off with the state in animate applied

whileInView

- whileInView replaces the animate property
- Waits till the element is visible on your browser to play the animation

viewport

• Ignore subsequent enter/leave events

Putting it all Together

```
{values.map(({ name }, index) => (
   <motion.div
      key=\{index\}\ initial=\{\{opacity: 0, y: -20\}\}
      whileInView={{ opacity: 1, y: 0 }}
       transition={{ duration: 0.5,
      delay: index * 0.1 }} > // each animates sequentially
       {name}
   </motion.div>
) ) }
```

whileHover

Useful to emphasize that something can be clicked or is interactive

Reuse Animations

- Declare animation above the component
- Notice that transition is a part of whileInView

```
const sampleAnimation = {
  initial: { scale: 0 },
  whileInView: { scale: 1, transition: { duration: 4.0 } }
};
```

Reuse Animations

Properties you can Animate

- Opacity
- X, Y, Z
- scaleX, scaleY, scaleZ
- rotateX, rotateY, rotateZ
- skewX, skewY, skewZ
- transformPerspective
- Many many more! Check out the motion docs:
 - https://motion.dev/docs/react-animation

Be Careful!

- It is very easy to apply lots of animations
- Make sure to always keep the average user experience in mind
 - Do not be overwhelm them.

THANK YOU!

Questions, comments, concerns?