

Personal Project

Broken Car Challenge

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Context

This paper describes the broken car challenge from Stan van Oers. This workshop focuses on creating animations with GSAP.

Research Methods



Tinkering

Come up with novel idea's based on technical opportunities and affordances.

(CMD Methods et al., 2015)

Results

At the start of the workshop, we started by setting up the frontend tool Vite. This was something new for me where I had to use npm, something I hardly ever use.

This was followed by an explanation of what gsap is and how it can be applied. Stan's example showed several animations. I received the same example from him but without animations. it was up to me to add these animations. On the gsap website, there was an explanation of the parameters.

Below is part of the code that creates an animation when the mouse hovers over a button.

```
import gsap from "gsap";

import Component from "../../core/Component";

class Button extends Component {
  constructor(attributes = {}) {
    super(attributes);
    this.initializeTimelines();
    this.initializeEventListeners();
  }
}
```

```
initializeEventListeners() {  
  this.$element.addEventListener("mouseenter", this.handleMouseEnter);  
  this.$element.addEventListener("mouseleave", this.handleMouseLeave);  
}  
  
initializeTimelines() {  
  this.initalizeTimelineHover();  
}  
  
initalizeTimelineHover() {  
  gsap.set(this.$refs.background, { scaleY: 0.0 });  
  this.timelineHover = gsap.timeline({ paused: true });  
  this.timelineHover.to(this.$refs.background, { scaleY: 1.0, duration: 0.5 }, 0.0);  
  this.timelineHover.from(this.$refs.arrow, { y:-100, duration: 0.5 }, 0.0);  
  this.timelineHover.to(this.$element, { scale: 2.0, duration: 0.5, ease: "back.out(2.0)" }, 0.0);  
}  
  
handleMouseEnter = () => {  
  this.timelineHover.play();  
};  
  
handleMouseLeave = () => {  
  this.timelineHover.reverse();  
};  
}  
  
export default Button;
```

Conclusion

Unfortunately, some workshops were not able to take place and it was more important to work on the group project and portfolio. which meant I spent little time on this challenge. As a result, there was no result as I had hoped.

But by attending the 2 short workshops I was able to get to know what vite and gsap are and what they do. Which can hopefully be applied to a future project

Learning Outcomes

Learning outcome 3: Software design and realisation

By creating and reusing software components and libraries to build a working product with code. By using npm to instal Vite and using gsap library.

Literature

CMD Methods, Van Turnhout, K., Jacobs, M., Kamp, I., Mulholland, C.,
Neuman,

A., Rouwhorst, S., & Van Vlies, L. (2015). *CMD methods*. Accessed November
9, 2023, from <https://cmdmethods.nl/>