List of Animations and Interactions Used:

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SECTION 1: LANDING PAGE

1. Birds

On landing home page, there is a sequence of 8 birds flying in a looping linear animation added to the HTML using .riv.

```
<script src="https://unpkg.com/aos@2.3.1/dist/aos.js"></script>
<script src="https://unpkg.com/@rive-app/canvas"></script>
<script>
    let birds = new rive.Rive({
        src: 'riv/birds.riv',
        canvas: document.querySelector('#birds-canvas'),
        autoplay: true,
    });
</script>
```

SECTION 2: CHARACTER SECTION

2. Interactive Characters

On Page 2, which is about introducing the characters, each character has an event listener interaction whereby their eyes and body follow the movements of the users mouse. Each character was created in Figma, and using their SVG in HTML, their facial features were separated from the rest of their body. Using the mousemove event listener function, the characters body and eyes follow the users mouse movements throughout this section.
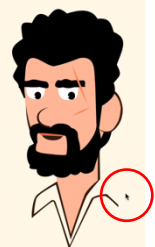
Character following mouse

No mouse on screen

Character following mouse

3. Floating Images

Laying behind the characters and their descriptions, a series of floating images have been scattered throughout the section. The SVG files have been assigned a css keyframe animation, and the specific blue clay SVG's have been separated so that each 'rock' moves differently with a different keyframe on top of this. All SVG's are animated so that they appear to be floating. There are a total of 5 'floating images' in this section.
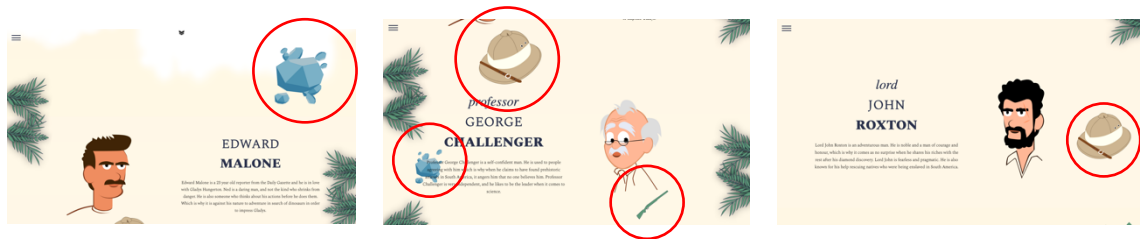
4. Side Page Leaves

Along with the floating images and interactive characters, there is a series of leaves that align down the left and right side of the page throughout the entire website. These palm leaves were created in Figma as separate SVG files and all were assigned a different CSS keyframe animation. Use of the same leaves and associated animations can be seen throughout different sections of the site.

```
@keyframes leafMoving1 {
    0% {
        rotate: -70deg;
    } 25% {
        rotate: -80deg;
    } 50% {
        rotate: -70deg;
    } 75% {
        rotate: -60deg;
    }100% {
        rotate: -70deg;
    }
}
```

```
@keyframes leafMoving2 {
    0% {
        rotate: -110deg;
    } 25% {
        rotate: -120deg;
    } 50% {
        rotate: -110deg;
    } 75% {
        rotate: -100deg;
    } 100% {
        rotate: -110deg;
    }
}
```

```
@keyframes leafMoving3 {
    0% {
        rotate: -90deg;
    } 25% {
        rotate: -100deg;
    } 50% {
        rotate: -90deg;
    } 75% {
        rotate: -80deg;
    } 100% {
        rotate: -90deg;
    }
}
```

SECTION 3: ABOUT THE BOOK

5. Interactive About Images

Using the same Figma SVG images that have previously been used as well as the interactive style of the characters moving with the mouse – the same interaction is applied whereby the group of images follow the user's mouse. In combination with this, the images make use of CSS keyframe animations also, and different paths of a given SVG are more sensitive to movement than others.

6. Rotating World

For the 1st of 4 about information sections – the page uses the same palm leaves down the right side of the page, as well as a rotating earth keyframe animation on the created earth SVG.
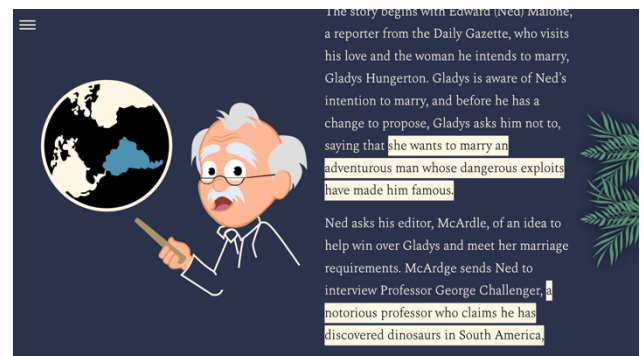
7. Floating Clay

For the 2nd of 4 about information sections – another rive animation was created using the blue clay image developed in Figma.

8. Side Page Clay

In combination with the floating clay. The 4 duplications of the clay SVG were added to the HTML, deleting some paths so that only a few background rocks remained. These rocks were animated using CSS keyframe animations so that they float along the side of the page.

9. Falling Leaves on Ginko Tree

Again, using SVG images added to the HTML and CSS keyframe animations, the Ginko tree was animated so that there were 'falling' leaves.

10. Walking Stegosaurus
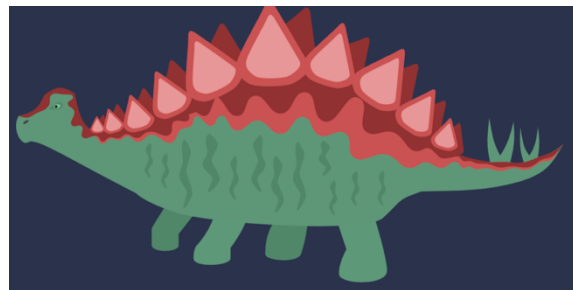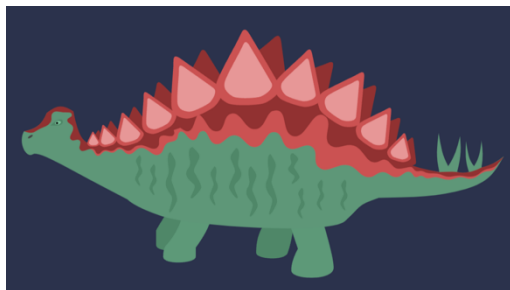
For the final part of the information section, I created a stegosaurus and made sure the legs were separate paths from the body so that I could create a walking animation using the separate legs.

11. Highlighting text

Thought all the information sections, as the user scrolls – selected text is highlighted, this was created through JavaScript using the ScrollTrigger extension.

```
<script src="https://cdnjs.cloudflare.com/ajax/libs/gsap/3.3.1/ScrollTrigger.min.js"></script>
```

```
const highlight = document.getElementById("highlight-style");

gsap.registerPlugin(ScrollTrigger);

gsap.utils.toArray(".text-highlight").forEach((highlight) => {
  ScrollTrigger.create({
    trigger: highlight,
    start: "-50px center",
    onEnter: () => highlight.classList.add("active")
  });
});

const setHighlightStyle = (value) =>
  document.body.setAttribute("data-highlight", value);

var $progressValue = 0;
var resultList = [];
```

SECTION 4: QUIZ

12. Quiz

For the quiz, adapted the code from the CodePen 'Quiz' by Helina Bajracharya. Some of the extensions used were:

```
<script src="https://cdnjs.cloudflare.com/ajax/libs/angular.js/1.5.8/angular.min.js"> </script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/angular.js/1.5.8/angular-
sanitize.min.js"></script>
```

```
<link href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/4.7.0/css/font-awesome.min.css" rel="stylesheet">
```

As well as the font awesome link, which made use of "\f058" and "\f058" for the tick and cross when viewing the quiz answers. Much of the layout and stylisation of the quiz were changed – I also removed some of the animations I did not understand to create something that was more consistent with my website.
Reference: https://codepen.io/Helina/pen/oGjWNe

SECTION 5: GENERAL

13. Navigation

Similar to the quiz section, I modified the code created by Anya Melnyk on CodePen (reference: https://codepen.io/slyka85/pen/LbXYKQ). I made many modifications to this code. The most noticeable modification was that of the style and design. I also created my own placement of the nav on the page as well as a creating a change navigation transition. For example, when the website changes its background colour from:

```
--highlightOffWhite: #fff7e4;
```

To
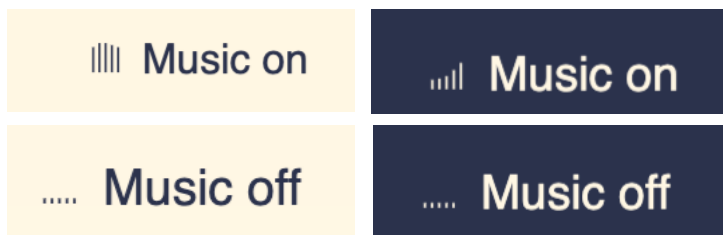
```
--bookColorBlue: #2a324c;
```
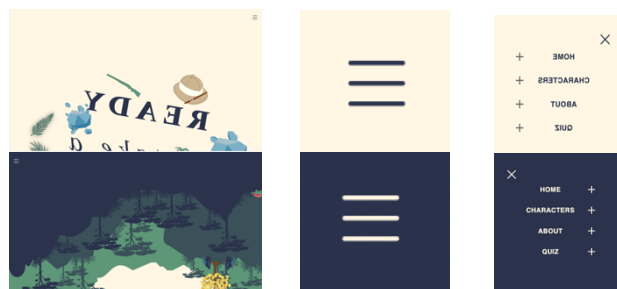

And back, all elements of the navigation must change. I made use of the scrollTrigger function again, which measures which section the user is up to on the page, and changes the colour of all these elements accordingly.

14. Music

The music animation used very similar js as the navigation js, in fact the same js code that I created to shift the colour of the nav depending on the website page background was used again for the music.

The music was from https://www.bensound.com/free-music-for-videos
Titled 'Evolution' by Benjamin Tissot

All Images Created: