**Infinite Carousel**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8" />

    <meta name="viewport" content="width=device-width, initial-scale=1.0" />

    <title>Infinite\_carousel</title>

    <style>

        .slider {

*height*: 100px;

*margin*: auto;

*overflow*: hidden;

*position*: relative;

*width*: 100%;

        }

        .slider::before,

        .slider::after {

*background*: linear-gradient(to right, white 0%, rgba(255, 255, 255, 0) 100%);

*content*: "";

*height*: 100px;

*position*: absolute;

*width*: 200px;

*z-index*: 2;

        }

        .slider::after {

*right*: 0;

*top*: 0;

*transform*: rotateZ(180deg);

        }

        .slider::before {

*left*: 0;

*top*: 0;

        }

        .slide-track {

*-webkit-animation*: scroll 40s linear infinite;

*animation*: scroll 40s linear infinite;

*display*: flex;

*width*: calc(250px \* 14);

        }

        .slide {

*height*: 100px;

*width*: 250px;

        }

        @keyframes *scroll* {

            0% {

*transform*: translateX(0);

            }

            100% {

*transform*: translateX(calc(-250px \* 7));

            }

        }

    </style>

</head>

<body>

    <div class="slider">

        <div class="slide-track">

            <div class="slide">

                <img src="img/366356.jpg" height="100" width="250" alt="" />

            </div>

            <div class="slide">

                <img src="img/525340.webp" height="100" width="250" alt="" />

            </div>

            <div class="slide">

                <img src="img/620432.jpg" height="100" width="250" alt="" />

            </div>

        </div>

    </div>

</body>

</html>

**HTML Code:**

1. **Document Type Declaration (<!DOCTYPE html>):**
   * Defines the document type and version of HTML being used.
2. **HTML Structure:**
   * **<html lang="en">**: Specifies that the document is written in English.
   * **<head>**: Contains metadata about the HTML document, such as character set, viewport settings, and the title of the page.
   * **<meta charset="UTF-8">**: Sets the character set to UTF-8.
   * **<meta name="viewport" content="width=device-width, initial-scale=1.0">**: Configures the viewport for responsive design.
   * **<title>Infinite Carousel</title>**: Sets the title of the HTML document.
   * **<style>**: Contains CSS styles for the document.

**CSS Styles:**

1. **Styles for the Slider Container (slider):**
   * **.slider**: Styles for the container of the carousel.
     + **height: 100px;**: Sets the height of the slider.
     + **margin: auto;**: Centers the slider horizontally.
     + **overflow: hidden;**: Hides content that overflows the slider.
     + **position: relative;**: Positions the slider relative to its normal position.
     + **width: 100%;**: Sets the width of the slider to 100% of the container.
2. **Pseudo-elements for Gradient Overlay (slider::before and slider::after):**
   * **.slider::before, .slider::after**: Pseudo-elements for creating a gradient overlay on both sides of the slider.
     + **background: linear-gradient(to right, white 0%, rgba(255, 255, 255, 0) 100%);**: Creates a horizontal gradient from white to transparent.
     + **content: "";**: Generates content for the pseudo-elements.
     + **height: 100px;**: Sets the height of the pseudo-elements.
     + **position: absolute;**: Positions the pseudo-elements absolutely within the slider.
     + **width: 200px;**: Sets the width of the pseudo-elements.
     + **z-index: 2;**: Places the pseudo-elements above the slide track.
3. **Styling for slider::after:**
   * **.slider::after**: Additional styling for the pseudo-element after.
     + **right: 0;**: Positions the pseudo-element to the right of the slider.
     + **top: 0;**: Positions the pseudo-element at the top of the slider.
     + **transform: rotateZ(180deg);**: Rotates the pseudo-element by 180 degrees.
4. **Styling for slider::before:**
   * **.slider::before**: Additional styling for the pseudo-element before.
     + **left: 0;**: Positions the pseudo-element to the left of the slider.
     + **top: 0;**: Positions the pseudo-element at the top of the slider.
5. **Slide Track Animation (slide-track):**
   * **.slide-track**: Container for the individual slides and animation.
     + **-webkit-animation: scroll 40s linear infinite;**: Applies the scroll animation to the slide track for webkit browsers.
     + **animation: scroll 40s linear infinite;**: Applies the scroll animation to the slide track.
     + **display: flex;**: Configures the container as a flex container.
     + **width: calc(250px \* 14);**: Sets the width of the slide track to accommodate all slides.
6. **Individual Slide Styles (slide):**
   * **.slide**: Styles for each individual slide.
     + **height: 100px;**: Sets the height of each slide.
     + **width: 250px;**: Sets the width of each slide.
7. **Keyframes for Scroll Animation (@keyframes scroll):**
   * Defines keyframes for the scroll animation.
     + **0%**: Initial state of the animation.
     + **100%**: Final state of the animation.
     + **transform: translateX(0);**: Initial position of the slide track.
     + **transform: translateX(calc(-250px \* 7));**: Final position of the slide track, creating the scrolling effect.

**HTML Body:**

1. **Slider Container (<div class="slider">...</div>):**

* Contains the slider with a track and individual slides.

1. **Slide Track (<div class="slide-track">...</div>):**

* Contains individual slides and is animated to create the scrolling effect.

1. **Individual Slides (<div class="slide">...</div>):**

* Each slide contains an image with a specified height and width.

**Summary:**

This code creates an infinite carousel with a scrolling effect using CSS animations. The individual slides are contained within a flex container, and a gradient overlay is applied on both sides of the slider to create a fading effect. The animation continuously scrolls through the slides, creating an infinite carousel effect.

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