




# Image Carousel

React ▾



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Medium



30mins



1.41k done

Build an image carousel that displays a sequence of images.

## Requirements

- The image carousel component takes in an array of image URLs. Example image URLs are provided in the skeleton code.
- Layout and positioning:
  - The image carousel should be centered on the screen with a maximum size of 600px by 400px.
  - Images should shrink to fit within the carousel so that the entire image is visible. Empty parts of the carousel can be filled with black.
  - If the screen width is smaller than the image, the carousel should be resized to fit within the available horizontal space.
- Navigation:
  - Add left/right navigation buttons to allow the user to navigate through the images. The buttons should allow a cycling behavior, i.e. after the last image, the image cycles back to the first.
  - Add page buttons at the bottom to directly jump to an image. You may assume there will be fewer than 10 images.
- Animations and transitions are not necessary for this question, they will be explored in **Image Carousel II** and **Image Carousel III**.

For this question, a technical restriction is there should only be one image element in the DOM at any one time.

## Asked at these companies

Amazon

Google

Dropbox

Microsoft

Snap

ByteDance

Tiktok

[View solution](#)

public

- index.html

src

- App.tsx
- ImageCarousel.tsx
- index.tsx
- styles.css

package.json

tsconfig.json

App.tsx ImageCarousel.tsx styles.css

```
import { useState } from "react";

import ImageCarousel from "../ImageCarousel";

const images = [
  {
    src: "https://picsum.photos/id/600/600/400",
    alt: "Forest",
  },
  {
    src: "https://picsum.photos/id/100/600/400",
    alt: "Beach",
  },
  {
    src: "https://picsum.photos/id/200/600/400",
    alt: "Yak",
  },
  {
    src: "https://picsum.photos/id/300/600/400",
    alt: "Hay",
  },
  {
    src: "https://picsum.photos/id/400/600/400",
    alt: "Plants",
  },
  {
    src: "https://picsum.photos/id/500/600/400",
    alt: "Building",
  },
];

export default function App() {
  const [message, setMessage] = useState("Image Carousel")

  return (
    <div>
      <h1>{message}</h1>
      <ImageCarousel images={images} />
    </div>
  );
}
```