

Medium

(L) 30mins

1.41k done

Build an image carousel that displays a sequence of images.

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Requirements

- The image carousel component takes in an array of image URLs. Example image URLs are provided in the skeleton code.
- Layout and positioning:

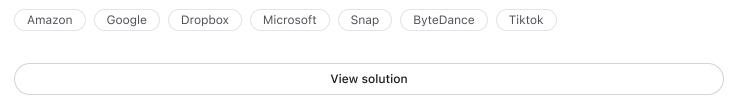
Yangshun Tay in

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- 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.

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



```
App.tsx ImageCarousel.tsx styles.css
public

□ index.html

                          import { useState } from "react";
src =
                          import ImageCarousel from "./ImageCarousel";
  App.tsx
  ☐ ImageCarousel.tsx
                          const images = [
  □ index.tsx
                              src: "https://picsum.photos/id/600/600/400",

□ styles.css

                              alt: "Forest",
nackage.json
                            },

☐ tsconfig.json

                              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>
                            );
                          }
```