

Managing Remote State in React

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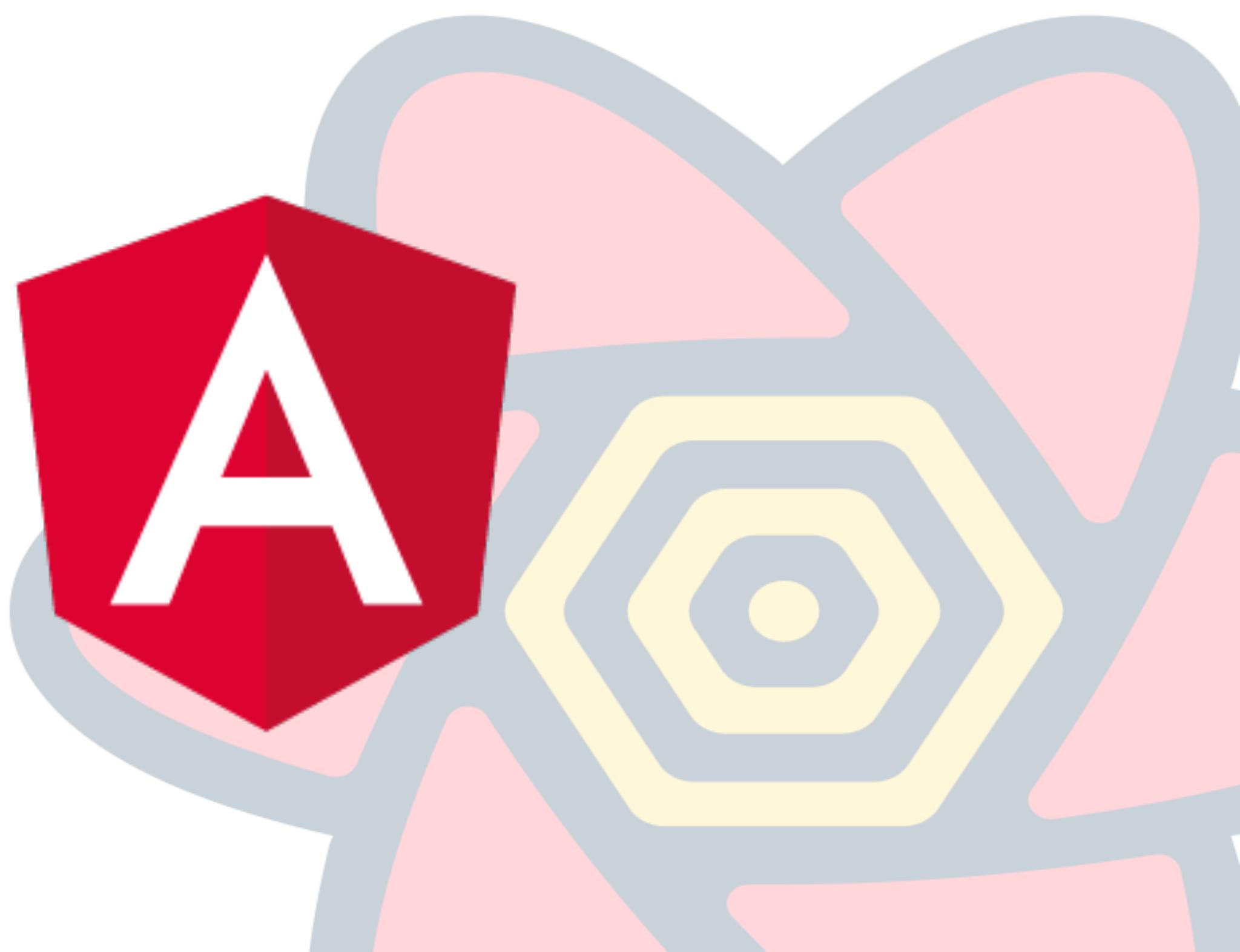
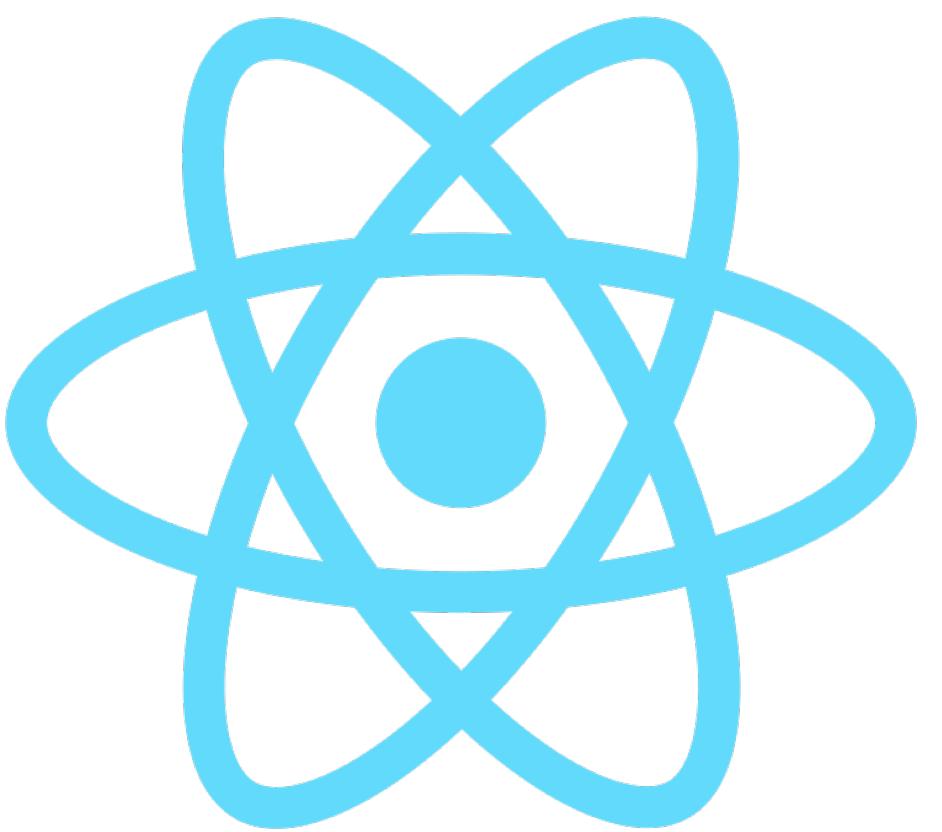
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**“We shape our tools and afterwards our
tools shape us.”**

Marshall McLuhan (1911 - 1980)



State

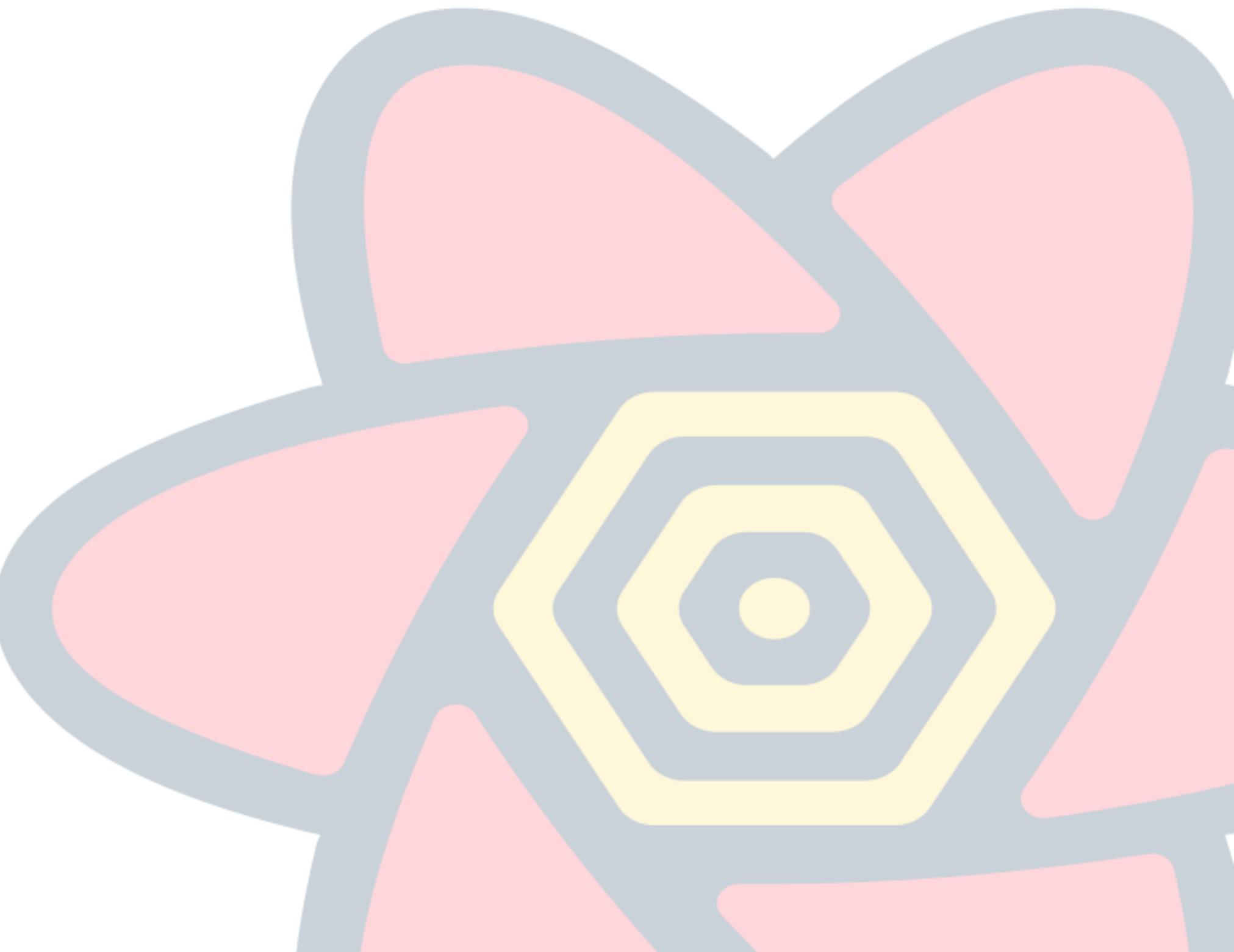
App vs Server

Asynchronous Remote Data



Asynchronous Remote Data

- Server is Source of Truth.
- Unknown Changes
- Stale Data
- Myriad of More



**What does this look like in
React?**

```
function MyComponent() {
  const [posts, setPosts] = React.useState([]);
  const [error, setError] = React.useState();
  const [status, setStatus] = React.useState("loading");

  const fetchPosts = async () => {
    try {
      setStatus("loading");
      const posts = await axios.get("/api/posts").then((res) => res.data);
      setPosts(posts);
      setError();
      setStatus("success");
    } catch (err) {
      setError(err);
      setStatus("error");
    }
  };

  React.useEffect(() => {
    fetchPosts();
  }, []);

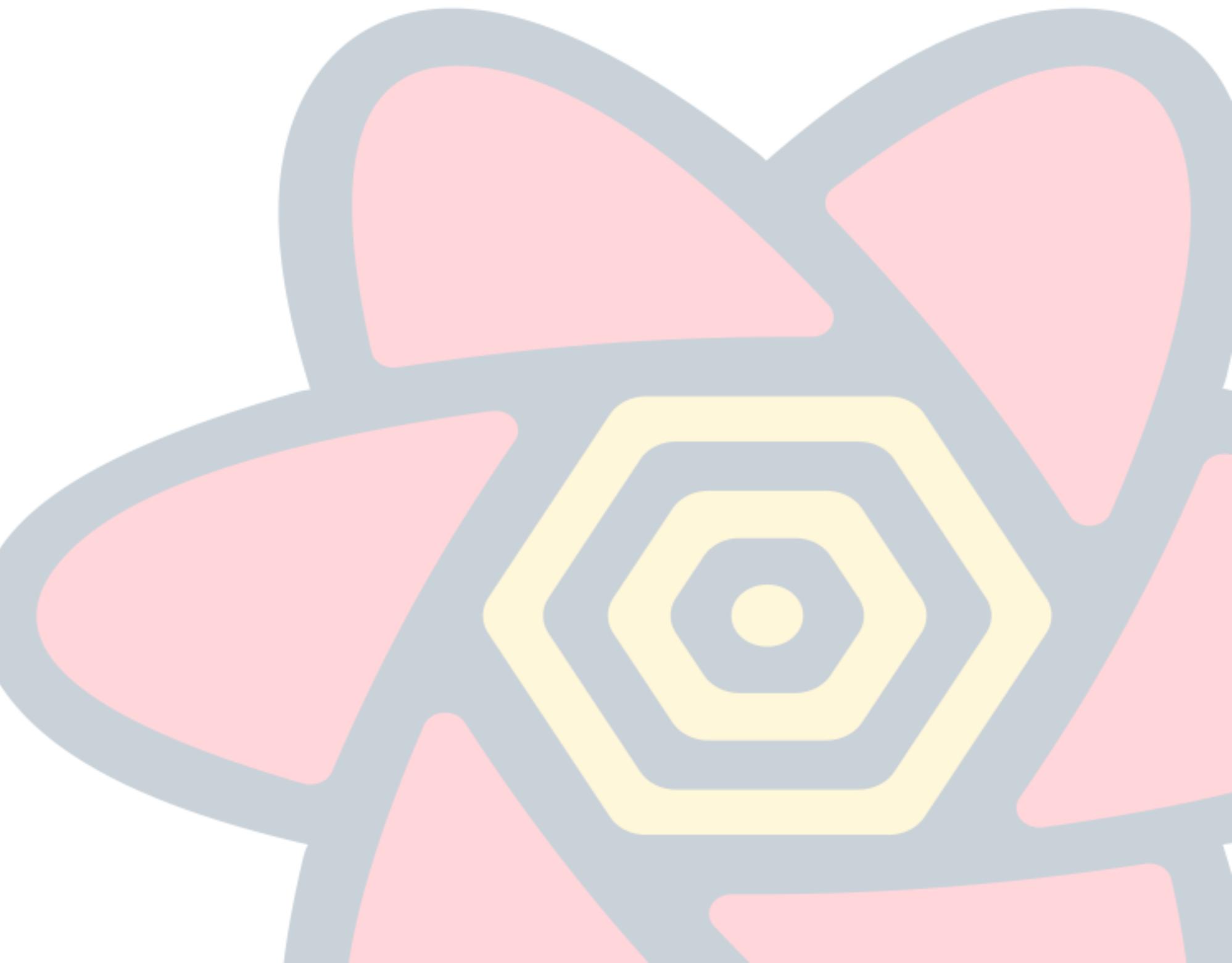
  if (status === "loading") return <p>Loading...</p>;
  if (status === "error") return <p>Error!!! -&gt; {error}</p>;
  return <div>Loop Though Posts</div>;
}
```

Enter React Query



React Query

- Simple, Hooks Based API
- Small Footprint
- Aggressive but Sane Defaults



Resources

- React Query Docs: <https://react-query.tanstack.com/overview>
- TKDodo's Blog: <https://tkdodo.eu/blog/practical-react-query>
- React Query Course: <https://learn.tanstack.com/p/react-query-essentials>

