The React + Axios Cheatsheet

💡 Remember that you can run any of these examples instantly by pasting the code into react.new

Make a GET Request

```
import axios from "axios";
import React from "react";

const baseURL = "https://jsonplaceholder.typicode.com/posts/1";

export default function App() {
  const [post, setPost] = React.useState(null);

  React.useEffect(() => {
    axios.get(baseURL).then((response) => {
      setPost(response.data);
    });
  }, []);

  if (!post) return null;

  return (
    <div>
      <h1>{post.title}</h1>
      <p>{post.body}</p>
    </div>
  );
}
```

Make a POST Request

```
import axios from "axios";
import React from "react";

const baseURL = "https://jsonplaceholder.typicode.com/posts";

export default function App() {
  const [post, setPost] = React.useState(null);
```

```
  React.useEffect(() => {
    axios.get(`${baseURL}/1`).then((response) => {
      setPost(response.data);
    });
  }, []);

  function createPost() {
    axios
      .post(baseURL, {
        title: "Hello World!",
        body: "This is a new post."
      })
      .then((response) => {
        setPost(response.data);
      });
  }

  if (!post) return "No post!"

  return (
    <div>
      <h1>{post.title}</h1>
      <p>{post.body}</p>
      <button onClick={createPost}>Create Post</button>
    </div>
  );
}
```

Make a PUT Request

```
import axios from "axios";
import React from "react";

const baseURL = "https://jsonplaceholder.typicode.com/posts";

export default function App() {
  const [post, setPost] = React.useState(null);

  React.useEffect(() => {
    axios.get(`${baseURL}/1`).then((response) => {
      setPost(response.data);
    });
  }, []);

  function updatePost() {
    axios
      .put(`${baseURL}/1`, {
        title: "Hello World!",
```

```
        body: "This is an updated post."
      })
      .then((response) => {
        setPost(response.data);
      });
  }

  if (!post) return "No post!"

  return (
    <div>
      <h1>{post.title}</h1>
      <p>{post.body}</p>
      <button onClick={updatePost}>Update Post</button>
    </div>
  );
}
```

Make a DELETE Request

```
import axios from "axios";
import React from "react";

const baseURL = "https://jsonplaceholder.typicode.com/posts";

export default function App() {
  const [post, setPost] = React.useState(null);

  React.useEffect(() => {
    axios.get(`${baseURL}/1`).then((response) => {
      setPost(response.data);
    });
  }, []);

  function deletePost() {
    axios
      .delete(`${baseURL}/1`)
      .then(() => {
        alert("Post deleted!");
        setPost(null)
      });
  }

  if (!post) return "No post!"

  return (
    <div>
      <h1>{post.title}</h1>
      <p>{post.body}</p>
```

```
      <button onClick={deletePost}>Delete Post</button>
    </div>
  );
}
```

Handle Errors with Axios

```
import axios from "axios";
import React from "react";

const baseURL = "https://jsonplaceholder.typicode.com/posts";

export default function App() {
  const [post, setPost] = React.useState(null);
  const [error, setError] = React.useState(null);

  React.useEffect(() => {
    // invalid url will trigger an 404 error
    axios.get(`${baseURL}/asdf`).then((response) => {
      setPost(response.data);
    }).catch(error => {
      setError(error);
    });
  }, []);

  if (error) return `Error: ${error.message}`;
  if (!post) return "No post!"

  return (
    <div>
      <h1>{post.title}</h1>
      <p>{post.body}</p>
    </div>
  );
}
```

Create an Axios Instance

```
import axios from "axios";
import React from "react";

const client = axios.create({
  baseURL: "https://jsonplaceholder.typicode.com/posts"
});
```

```
export default function App() {
  const [post, setPost] = React.useState(null);

  React.useEffect(() => {
    client.get("/1").then((response) => {
      setPost(response.data);
    });
  }, []);

  function deletePost() {
    client
      .delete("/1")
      .then(() => {
        alert("Post deleted!");
        setPost(null)
      });
  }

  if (!post) return "No post!"

  return (
    <div>
      <h1>{post.title}</h1>
      <p>{post.body}</p>
      <button onClick={deletePost}>Delete Post</button>
    </div>
  );
}
```

Use Async Await Syntax with Axios

```
import axios from "axios";
import React from "react";

const client = axios.create({
  baseURL: "https://jsonplaceholder.typicode.com/posts"
});

export default function App() {
  const [post, setPost] = React.useState(null);

  React.useEffect(() => {
    async function getPost() {
      const response = await client.get("/1");
      setPost(response.data);
    }
    getPost();
  }, []);
```

```
  async function deletePost() {
    await client.delete("/1");
    alert("Post deleted!");
    setPost(null);
  }

  if (!post) return "No post!"

  return (
    <div>
      <h1>{post.title}</h1>
      <p>{post.body}</p>
      <button onClick={deletePost}>Delete Post</button>
    </div>
  );
}
```

useAxios Custom Hook

```
import { useAxios } from "use-axios-client";

export default function App() {
  const { data, error, loading } = useAxios({
    url: "https://jsonplaceholder.typicode.com/posts/1"
  });

  if (loading || !data) return "Loading...";
  if (error) return "Error!";

  return (
    <div>
      <h1>{data.title}</h1>
      <p>{data.body}</p>
    </div>
  )
}
```