

** React Components **

* Server Components *

They are rendered on the server, i.e. only the HTML output is sent to the client.

- Can access server-side resources easily
- Useful for components that interacts with databases, file systems or in general
- Reduces the amount of js sent to client browser.
- As rendered on server, reduces the latency.

* Client components *

Rendered on client's browser. Generally components that needs client's direct interaction, like buttons, navigation, etc

Note:

As by default the components are server-component. We need to use "use client" at the top of corresponding component file

app/clientComponent.tsx

"use client"; ^{→ specifies that this component contains items}
... be sent to client's browser to render
... rest of the code
...

Note:-

Even for client components, react pre-renders the component on server-side while having placeholders for items that needs client interactions to be rendered on clients browser.

also k/a Server-side Pre-rendering

?? When to use which component:

Only use "use client" if there some client interaction, else let it be a complete server component

- For more info refer to nextjs docx.

Note:-

Eventlisteners or react state and lifecycle hooks needs client side rendering