## next/streaming

The experimental next/streaming module provides streaming related APIs to port the existing functionality of Next.js apps to streaming scenarios and facilitate the usage of React Server Components.

## $unstable\_useWebVitalsReport$

Next.js provides an \_app component-level function, reportWebVitals, for tracking performance metrics. With Server Components, you may have a pure server-side custom \_app component (which doesn't run client effects) so the existing API won't work.

With the new unstable\_useWebVitalsReport API, you're able to track Core Web Vitals in client components:

```
// pages/_app.js
import { unstable_useWebVitalsReport } from 'next/streaming'
export default function Home() {
  unstable useWebVitalsReport((data) => {
    console.log(data)
 })
 return <div>Home Page</div>
}
This method could also be used to replace statically exported reportWebVitals
functions in your existing _app:
// pages/_app.server.js
import Layout from '../components/layout.client.js'
export default function App({ children }) {
  return <Layout>{children}</Layout>
// components/layout.client.js
import { unstable_useWebVitalsReport } from 'next/streaming'
export default function Layout() {
  unstable_useWebVitalsReport((data) => {
    console.log(data)
 })
 return (
    <div className="container">
      <h1>Hello</h1>
```

## unstable useRefreshRoot

Since Server Components are rendered on the server-side, in some cases you might need to partially refresh content from the server.

For example, a search bar (client component) which displays search results as server components. You'd want to update the search results while typing and rerender the results list with a certain frequency (e.g. with each keystroke or on a debounce).

The unstable\_useRefreshRoot hook returns a refresh API to let you re-render the React tree smoothly without flickering. This is only allowed for use on the client-side and will only affect Server Components at the moment.

```
// pages/index.server.js
import Search from '../components/search.client.js'
import SearchResults from '../components/search-results.server.js'
function Home() {
 return (
    <div>
      <Search />
      <SearchResults />
    </div>
 )
}
// components/search.client.js
import { unstable_useRefreshRoot as useRefreshRoot } from 'next/streaming'
export default function Search() {
  const refresh = useRefreshRoot()
 return (
    <SearchUI
      onChange={() => {
        refresh()
        // Or refresh with updated props:
        // refresh(nextProps)
     }}
    />
 )
```