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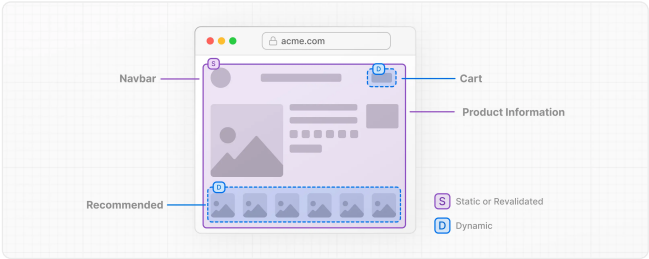
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# Partial Prerendering

Partial Prerendering (PPR) enables you to combine static and dynamic components together in the same route.

During the build, Next.js prerenders as much of the route as possible. If **dynamic** code is detected, like reading from the incoming request, you can wrap the relevant component with a **React Suspense** boundary. The Suspense boundary fallback will then be included in the prerendered HTML.

**Note:** Partial Prerendering is an **experimental** feature and subject to change. It is not ready for production use.



 **Watch:** Why PPR and how it works → [YouTube \(10 minutes\)](#)

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Edit this page on GitHub ↗

Managed Next.js (Vercel) ↗

https://nextjs.org/docs/app/building-your-application/rendering/partial-prerendering

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components can begin rendering before client JavaScript has been loaded in the browser.

To prevent creating many HTTP requests for each dynamic component, PPR is able to combine the static prerender and dynamic components together into a single HTTP request. This ensures there are not multiple network roundtrips needed for each dynamic component.

## Using Partial Prerendering

### Incremental Adoption (Version 15)

In Next.js 15, you can incrementally adopt Partial Prerendering in [layouts](#) and [pages](#) by setting the `ppr` option in `next.config.js` to `incremental`, and exporting the `experimental_ppr` [route config option](#) at the top of the file:

```
next.config.ts
TypeScript

import type { NextConfig } from 'next'

const nextConfig: NextConfig = {
  experimental: {
    ppr: 'incremental',
  },
}

export default nextConfig

app/page.tsx
TypeScript

import { Suspense } from "react"
import { StaticComponent, DynamicComponent, Fallback } from "next"

export const experimental_ppr = true

export default function Page() {
  return (
    <>
      <StaticComponent />
      <Suspense fallback=<Fallback />>
        <DynamicComponent />
      </Suspense>
    </>
  );
}
```

**Good to know:**

- Routes that don't have `experimental_ppr` will default to `false` and will not be prerendered using PPR. You need to explicitly opt-in to PPR for each route.
- `experimental_ppr` will apply to all children of the route segment, including nested layouts and pages. You don't have to add it to every file, only the top segment of a route.
- To disable PPR for children segments, you can set `experimental_ppr` to `false` in the child segment.

## Enabling PPR (Version 14)

For version 14, you can enable it by adding the `ppr` option to your `next.config.js` file. This will apply to all routes in your application:

```
next.config.ts  TypeScript  Copy
```

```
1 import type { NextConfig } from 'next'
2
3 const nextConfig: NextConfig = {
4   experimental: {
5     ppr: true,
6   },
7 }
8
9 export default nextConfig
```

## Dynamic Components

When creating the pre-renderer for your route during `next build`, Next.js requires that dynamic functions are wrapped with React Suspense. The `fallback` is then included in the pre-render.

For example, using functions like `cookies()` or `headers()`:

```
app/user.tsx  TypeScript  Copy
```

```
1 import { cookies } from 'next/headers'
```

```
1
2 export function User() {
3   const session = cookies().get('session')?.value
4   return '...'
5 }
6 }
```

This component requires looking at the incoming request to read cookies. To use this with PPR, you should wrap the component with `Suspense`:

```
app/page.tsx TypeScript
1 import { Suspense } from 'react'
2 import { User, AvatarSkeleton } from './user'
3
4 export const experimental_ppr = true
5
6 export default function Page() {
7   return (
8     <section>
9       <h1>This will be prerendered</h1>
10      <Suspense fallback=<AvatarSkeleton />>
11        <User />
12      </Suspense>
13    </section>
14  )
15 }
```

Components only opt into dynamic rendering when the value is accessed.

For example, if you are reading `searchParams` from a `page`, you can forward this value to another component as a prop:


```
app/page.tsx TypeScript
1 import { Table } from './table'
2
3 export default function Page({
4   searchParams,
5 }: {
6   searchParams: { sort: string }
7 }) {
8   return (
9     <section>
10      <h1>This will be prerendered</h1>
11      <Table searchParams={searchParams} />
12    </section>
13  )
14 }
```

Inside of the table component, accessing the value from `searchParams` will make the component run dynamically:

TSapp/table.tsxTypeScript

```
1 export function Table({ searchParams }: { searchParams: { sort?: string } }) {
2   const sort = searchParams.sort === 'true' ? 'asc' : 'desc'
3   return '...'
4 }
```

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