Nextjs  
Nextjs is a fullstack react frameworkfor the web, it is open source and built on top of react frameworks. Nextjs provide features like server side rendering and enhanced search engine optimization and built in routing making it simple to create dynamic routes and handle navigation within our the application.

**Features of nextjs**

Page based routing system

Pre rendering

Built in css and Sass support

Full stack capabilities

Static exports

Dynamic components

Prefetching

Nextjs 13 features

App directory

Server components

React 18 support

Performance improvements

Nextjs 14 features

React 19 support

Built in image optimizer

Nextjs cli

Improvements to metadata handling, including

Decoupling of blocking and non blocking metadata

Supports for file based metadata

Improved metadata validation

Pros of nextjs

Improved search engine optimization

Open graph customization

Enhanced performance

Lazy loading

Accessibility

Cons of nextjs

Routing

Build time

Data Fetching

In nextjs 13

In nextjs 13 with the App router, data fetching introduces techniques designed to leverage server components and enhance performance.

1. Fetching in server components
2. Client-side data fetching
3. Static fetching / Static site generation
4. Dynamic fetching / Server side rendering
5. Incremental static regeneration
6. Parallel data fetching
7. Streaming with suspense
8. API routes for data fetching

Cache in nextjs

In nextjs the cache option in the fetch api allows us to control the caching behavior of our data fetching.

* **default**
* **no-cache**
* **force-cache**
* **no-store**
* **only-if-cached**
* **reload**