

SEARCH ENGINE OPTIMIZATIONS ESSENTIALS

BEST PRACTICES & TECHNIQUES FOR SEO OPTIMIZATION

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Next.js SEO Guide

Boost your Next.js site's search engine visibility with these essential techniques:

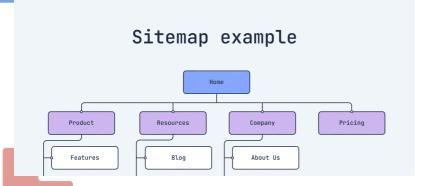
- Site Map XML
 Generate a dynamic sitemap to help search engines index your content efficiently.
- Robot.txt
 Control which pages and sections of your website are accessible to crawlers.
- Static Metadata
 Define consistent SEO metadata for static pages to improve ranking and sharing.
 - Individual Metadata
 Customize metadata for specific pages or sections for targeted optimization.
- Dynamic Metadata
 Optimize pages with dynamic content by automatically generating metadata for each entry.

M Setting Up a Sitemap in Next.js

Sitemaps are the easiest way to communicate with Google. They indicate the URLs that belong to your website and when they update so that Google can easily detect new content and crawl your website more efficiently. A sitemap helps search engines efficiently crawl your site's URLs.

This guide explains how to set up a sitemap in **Next.js** using:

- Pages Router
- App Router



PAGES ROUTER

THERE ARE TWO OPTIONS:

-Manual

Learn more about sitemap.xml in the official Next.js documentation.

-get Server Side Props

```
//pages/sitemap.xml.js
const EXTERNAL_DATA_URL = 'https://jsonplaceholder.typicode.com/posts'
function generateSiteMap(posts) {
  return `<?xml version="1.0" encoding="UTF-8"?>
   <urlset xmlns="http://www.sitemaps.org/schemas/sitemap/0.9">
     \leftarrow!—We manually set the two URLs we know already—
     <url>
       <loc>https://jsonplaceholder.typicode.com</loc>
     </url>
     <url>
       <loc>https://jsonplaceholder.typicode.com/guide</loc>
     </url>
     ${posts
      .map((\{ id \}) \Rightarrow \{
        return `
<url>
<loc>${`${EXTERNAL_DATA_URL}/${id}`}</loc>
       </url>
```

App Router

THERE ARE TWO OPTIONS:

Manual

```
//pages/sitemap.ts
<urlset xmlns="http://www.sitemaps.org/schemas/sitemap/0.9">
  <url>
    <loc>https://acme.com</loc>
    <lastmod>2023-04-06T15:02:24.021Z</lastmod>
    <changefreq>yearly</changefreq>
    <priority>1</priority>
  </url>
  <url>
    <loc>https://acme.com/about</loc>
    <lastmod>2023-04-06T15:02:24.021Z</lastmod>
    <changefreq>monthly</changefreq>
    <priority>0.8</priority>
  </url>
  <url>
    <loc>https://acme.com/blog</loc>
    <lastmod>2023-04-06T15:02:24.021Z</lastmod>
    <changefren>weeklv</changefren>
```

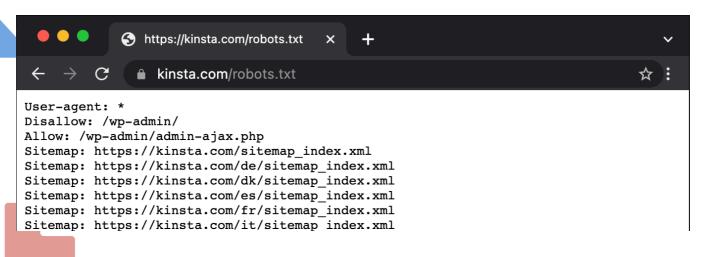
Generating a sitemap using code (.js, .ts)

```
//pages/sitemap.ts
import type { MetadataRoute } from 'next'
export default function sitemap(): MetadataRoute.Sitemap {
 return [
     url: 'https://acme.com',
     lastModified: new Date(),
      changeFrequency: 'yearly',
      priority: 1,
     url: 'https://acme.com/about',
     lastModified: new Date(),
      changeFrequency: 'monthly',
      priority: 0.8,
     url: 'https://acme.com/blog',
      lastModified: new Date(),
      changeFrequency: 'weekly'.
```

ROBOT.TXT

WHAT IS A ROBOTS.TXT FILE?

A robots.txt file tells search engine crawlers which pages or files the crawler can or can't request from your site. The robots.txt file is a web standard file that most good bots consume before requesting anything from a specific domain.



PAGES ROUTER

Static robots.txt

```
//public/robots.txt

# Block all crawlers for /accounts

User-agent: \*
Disallow: /accounts

# Allow all crawlers

User-agent: \*
Allow: /
Sitemap: https://example.com/sitemap.xml
```

Learn more about robots.txt in the official Next.js documentation.

Generate a Robots file

```
import type { MetadataRoute } from 'next'

export default function robots(): MetadataRoute.Robots {
  return {
    rules: {
      userAgent: '*',
      allow: '/',
      disallow: '/private/',
    },
    sitemap: 'https://acme.com/sitemap.xml',
  }
}
```

META DATA

PAGE ROUTER

```
import { Html, Head, Main, NextScript } from 'next/document';
export default function Document() {
 return (
    <html lang='en'>
      <Head>
        <meta charSet='UTF-8' />
        <meta
          name='robots'
          content='index, follow, max-image-preview:large, max-snippet:-1, max-video-preview:-1'
        <meta property='og:locale' content='en US' />
        <meta name='author' content='Alamin Shaikh' />
        <meta property='og:image:width' content='920' />
        <meta property='og:image:height' content='470' />
        <meta name='twitter:card' content='summary_large_image' />
      </Head>
```

META DATA

APP ROUTER

```
import type { Metadata } from 'next'
// either Static metadata
export const metadata: Metadata = {
 title: 'Next.js',
  description: 'The React Framework for the Web',
  url: 'https://nextjs.org',
  siteName: 'Next.js',
  images: [
     url: 'https://nextjs.org/og.png', // Must be an
     width: 800,
     height: 600,
     url: 'https://nextjs.org/og-alt.png', // Must be
     width: 1800,
```

```
// or Dynamic metadata
 import type { Metadata } from 'next'
type Props = {
   params: { id: string }
 export async function generateMetadata({
   params,
   searchParams,
}: Props): Promise<Metadata> {
  // read route params
   const id = params.id
  // fetch data
   const product = await fetch(`https://.../${id}`).the
```



THANK YOU!

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