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# Next.js Project Structure

This page provides an overview of the file and folder structure of a Next.js project. It covers top-level files and folders, configuration files, and routing conventions within the app and pages directories.

### **Top-level folders**

арр	App Router
pages	Pages Router
public	Static assets to be served
src	Optional application source folder

### **Top-level files**

#### Next.js

next.config.js	Configuration file for Next.js
package.json	Project dependencies and scripts
(instrumentation.ts)	OpenTelemetry and Instrumentation file
(middleware.ts)	Next.js request middleware

.env	Environment variables
.env.local	Local environment variables
.env.production	Production environment variables
.env.development	Development environment variables
.eslintrc.json	Configuration file for ESLint
.gitignore	Git files and folders to ignore
<pre>next-env.d.ts</pre>	TypeScript declaration file for Next.js
(tsconfig.json)	Configuration file for TypeScript
[jsconfig.json]	Configuration file for JavaScript

# app Routing Conventions

# **Routing Files**

layout	.js .jsx .tsx	Layout
page	.js .jsx .tsx	Page
loading	.js .jsx .tsx	Loading UI
not-found	.js .jsx .tsx	Not found UI
error	.js .jsx .tsx	Error UI
global-error	.js .jsx .tsx	Global error UI
route	.js .ts	API endpoint
template	.js .jsx .tsx	Re-rendered layout
default	.js .jsx .tsx	Parallel route fallback page

### **Nested Routes**

folder	Route segment
folder/folder	Nested route segment

## **Dynamic Routes**

[folder]	Dynamic route segment
[folder]	Catch-all route segment
[[folder]]	Optional catch-all route segment

## **Route Groups and Private Folders**

(folder)	Group routes without affecting routing
_folder	Opt folder and all child segments out of routing

## **Parallel and Intercepted Routes**

@folder	Named slot
(.)folder	Intercept same level
()folder	Intercept one level above
()()folder	Intercept two levels above
()folder	Intercept from root

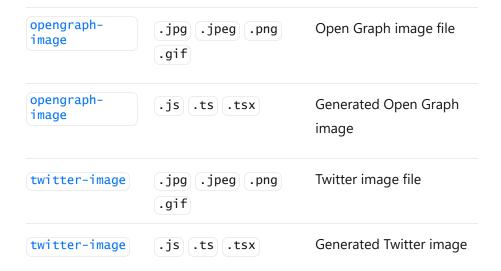
### **Metadata File Conventions**

### **App Icons**

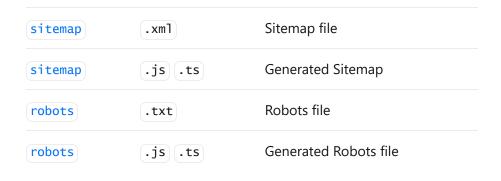
favicon	.ico	Favicon file
icon	<pre>.ico .jpg .jpeg .png .svg</pre>	App Icon file
icon	.js .ts .tsx	Generated App Icon



#### **Open Graph and Twitter Images**



#### **SEO**



# pages Routing Conventions

### **Special Files**

_app	.js .jsx .tsx	Custom App
_document	.js .jsx .tsx	Custom Document
_error	.js .jsx .tsx	Custom Error Page
404	.js .jsx .tsx	404 Error Page



## Routes

Folder convention		
index	.js .jsx .tsx	Home page
folder/index	.js .jsx .tsx	Nested page
File convention		
index	.js .jsx .tsx	Home page
file	.js .jsx .tsx	Nested page

# **Dynamic Routes**

Folder convention		
[folder]/index	.js .jsx .tsx	Dynamic route segment
[folder]/index	.js .jsx	Catch-all route segment
[[folder]]/index	.js .jsx .tsx	Optional catch-all route segment
en		
File convention		
[file]	.js .jsx .tsx	Dynamic route segment
		Dynamic route segment  Catch-all route segment

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