

Astro Hybrid Project Structure

SSR + static pages with island components. React, Vue, or Svelte islands.

#astro #ssr #hybrid #islands #react #vue

PNG

PDF

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</> Prompt

Project Directory

my-app/

> src/

> components/

Header.astro

Footer.astro

> islands/ Interactive com...

Counter.tsx React island

Search.tsx Client-side sea...

ThemeToggle.tsx

> content/

> blog/

post.mdx

config.ts

> layouts/

Base.astro

App.astro App shell

> lib/ Shared utilities

api.ts API client

auth.ts Auth helpers

> pages/

index.astro Static home

about.astro Static page

> blog/

[...slug].astro

> dashboard/ SSR routes

index.astro Server-rendered

settings.astro

> api/ API endpoints

auth.ts Login/logout

data.ts Data endpoint

middleware.ts Auth middleware

> styles/

global.css

> public/

favicon.svg

astro.config.mjs output: hybrid

package.json

tsconfig.json

.env API keys, secre...

.env.example

.gitignore

Why This Structure?

Hybrid mode (`output: 'hybrid'`) pre-renders pages by default while allowing SSR opt-in. Island components hydrate interactively with `client:*` directives. API routes in `src/pages/api/` run server-side. Best of both worlds.

Key Directories

src/components/islands/ - React/Vue components that hydrate

src/pages/dashboard/ - SSR pages with `export const prerender = false`

src/pages/api/ - Server endpoints (`.ts` files)

src/middleware.ts - Runs before every request

Island Directives

client:load - Hydrate immediately on page load

client:idle - Hydrate when browser is idle

client:visible - Hydrate when scrolled into view

client:only - Skip SSR, render client-only

Getting Started

```
npm create astro@latest my-app
npx astro add react
# Set output: 'hybrid' in config
npm run dev
```

When To Use This

- Mix of static content and dynamic features
- Dashboards with public marketing pages
- Apps needing auth-protected SSR routes
- Sites with isolated interactive widgets

Trade-offs

Server required - Deploy to Node/edge runtime

Multiple frameworks - Bundle size per island framework

Complexity - More moving parts than static-only