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Monorepo

Using shadcn/ui components and CLI in a monorepo.

Note: We're releasing monorepo support in the CLI as **experimental**. Help us improve it by testing it out and sending feedback. If you have any questions, please [reach out to us](#).

Until now, using shadcn/ui in a monorepo was a bit of a pain. You could add components using the CLI, but you had to manage where the components were installed and manually fix import paths.

With the new monorepo support in the CLI, we've made it a lot easier to use shadcn/ui in a monorepo.

The CLI now understands the monorepo structure and will install the components, dependencies and registry dependencies to the correct paths and handle imports for you.

Getting started

1Create a new monorepo project

To create a new monorepo project, run the `init` command. You will be prompted to select the type of project you are creating.

```
pnpm npm yarn bun
pnpm dlx shadcn@canary init
```

Select the `Next.js (Monorepo)` option.

```
? Would you like to start a new project?
  Next.js
>  Next.js (Monorepo)
```

This will create a new monorepo project with two workspaces: `web` and `ui`, and **Turborepo** as the build system.

Everything is set up for you, so you can start adding components to your project.

2Add components to your project

To add components to your project, run the `add` command **in the path of your app**.

```
cd apps/web
pnpm npm yarn bun
pnpm dlx shadcn@canary add [COMPONENT]
```

The CLI will figure out what type of component you are adding and install the correct files to the correct path.

For example, if you run `npm shadcn@canary add button`, the CLI will install the `button` component under `packages/ui` and update the import path for components in `apps/web`.

If you run `npm shadcn@canary add login-01`, the CLI will install the `button`, `label`, `input` and `card` components under `packages/ui` and the `login-form` component under `apps/web/components`.

3Importing components

You can import components from the `@workspace/ui` package as follows:

```
import { Button } from
"@workspace/ui/components/button"
```

You can also import hooks and utilities from the `@workspace/ui` package.

```
import { useTheme } from "@workspace/ui/hooks/use-
theme"
import { cn } from "@workspace/ui/lib/utills"
```

File Structure

When you create a new monorepo project, the CLI will create the following file structure:

```
apps
├─ web      # Your app goes here.
│  └─ app
│    └─ page.tsx
│  └─ components
│    └─ login-form.tsx
│  └─ components.json
└─ package.json
packages
├─ ui      # Your components and dependencies are
installed here.
│  └─ src
│    └─ components
│      └─ button.tsx
│    └─ hooks
│    └─ lib
│      └─ utills.ts
│    └─ styles
│      └─ globals.css
└─ components.json
└─ package.json
package.json
turbo.json
```

Requirements

1. Every workspace must have a `components.json` file. A `package.json` file tells npm how to install the dependencies. A `components.json` file tells the CLI how and where to install components.

2. The `components.json` file must properly define aliases for the workspace. This tells the CLI how to import components, hooks, utilities, etc.

apps/web/components.json

```
{
  "$schema": "https://ui.shadcn.com/schema.json",
  "style": "new-york",
  "rsc": true,
  "tsx": true,
  "tailwind": {
    "config": "../../../../packages/ui/tailwind.config.ts",
    "css": "../../../../packages/ui/src/styles/globals.css",
    "baseColor": "zinc",
    "cssVariables": true
  },
  "iconLibrary": "lucide",
  "aliases": {
    "components": "@components",
    "hooks": "@hooks",
    "lib": "@lib",
    "utills": "@workspace/ui/lib/utills",
    "ui": "@workspace/ui/components"
  }
}
```

packages/ui/components.json

```
{
  "$schema": "https://ui.shadcn.com/schema.json",
  "style": "new-york",
  "rsc": true,
  "tsx": true,
  "tailwind": {
    "config": "tailwind.config.ts",
    "css": "src/styles/globals.css",
    "baseColor": "zinc",
    "cssVariables": true
  },
  "iconLibrary": "lucide",
  "aliases": {
    "components": "@workspace/ui/components",
    "utills": "@workspace/ui/lib/utills",
    "hooks": "@workspace/ui/hooks",
    "lib": "@workspace/ui/lib",
    "ui": "@workspace/ui/components"
  }
}
```

3. Ensure you have the same `style`, `iconLibrary` and `baseColor` in both `components.json` files.

By following these requirements, the CLI will be able to install ui components, blocks, libs and hooks to the correct paths and handle imports for you.

Help us improve monorepo support

We're releasing monorepo support in the CLI as **experimental**. Help us improve it by testing it out and sending feedback.

If you have any questions, please reach out to us on [GitHub Discussions](#).

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Built by [shadcn](#). The source code is available on [GitHub](#).

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