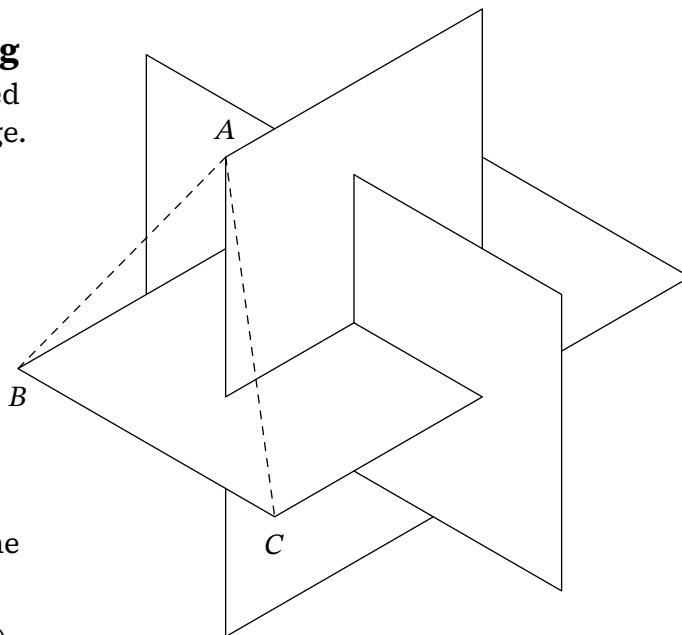# Packages Just Work

Packages require no manual setup. Just use `#import` as you normally would in Typst, and `typst-bake` handles the rest automatically.

The `cetz` and `lilaq` packages were automatically detected from the import statements and resolved at compile time. Their internal dependencies (such as `oxifmt`, `zero`, `tiptoe`, `elembic`) are also recursively resolved and embedded.

Downloaded packages are cached in Typst's cache directory and reused across builds. To force a fresh download, run with `TYPST_BAKE_PKG_NOCACHE=1 cargo build`.

CetZ Drawing
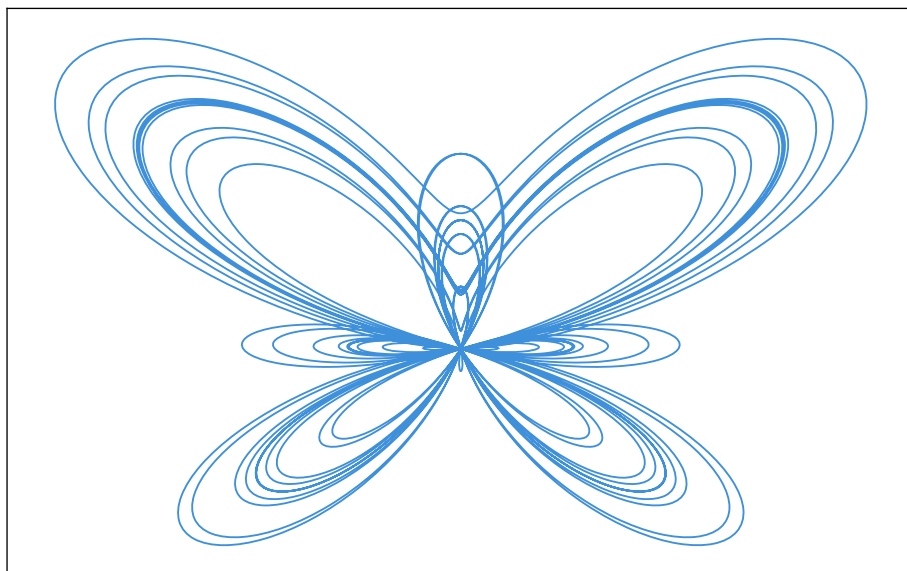
A 3D shape rendered using the CetZ package.

Example by @samuelireson

Lilaq Plotting

The butterfly curve rendered using the Lilaq package:

$$x = \sin(t) \cdot \left(e^{\cos(t)} - 2\cos(4t) - \sin^5(t/12) \right)$$

$$y = \cos(t) \cdot \left(e^{\cos(t)} - 2\cos(4t) - \sin^5(t/12) \right)$$

Butterfly Curve — Temple H. Fay (1989)

How Package Resolution Works

`typst-bake` shares the same package directories as the Typst CLI. This means packages you've already downloaded with Typst are reused automatically — no duplicate downloads.

Resolution Order

For each `#import` statement, packages are looked up in the following order:

1. **Local data directory** — Locally installed packages (e.g. `@local/mypkg:1.0.0`) are found here. This is the same directory where `typst` CLI looks for local packages.
   - `TYPST_PACKAGE_PATH` env var, or
   - `{data-dir}/typst/packages/` (platform default)
2. **Cache directory** — Previously downloaded packages from Typst Universe are cached here, shared with the Typst CLI.
   - `TYPST_PACKAGE_CACHE_PATH` env var, or
   - `{cache-dir}/typst/packages/` (platform default)
3. **Download from Typst Universe** — If not found locally, `@preview` packages are downloaded automatically.

Platform Default Directories

Platform	Data directory	Cache directory
Linux	`~/.local/share/typst/packages/`	`~/.cache/typst/packages/`
macOS	`~/Library/Application Support/typst/packages/`	`~/Library/Caches/typst/packages/`
Windows	`%APPDATA%\typst\packages\`	`%LOCALAPPDATA%\typst\packages\`

Environment Variables

- `TYPST_PACKAGE_PATH` — Override the data directory for local packages
- `TYPST_PACKAGE_CACHE_PATH` — Override the cache directory for downloaded packages
- `TYPST_BAKE_PKG_NOCACHE=1` — Force re-download of all packages (ignore cache)