RustNL GOSIM 2024 EUROPE

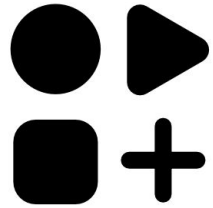# WRAPPING CARGO FOR SHIPPING

David Rheinsberg

"Can *cargo* emit Application Bundles?"

Flathub

```
$ curl --proto '=https' --tlsv1.2 -sSf https://sh.rustup.rs | sh
```

```
$ curl --proto '=https' --tlsv1.2 --silent --show-error --fail
                    https://sh.rustup.rs | sh
```

```
$ curl [...] https://sh.netflix.com | sh
```

- **Android**:   *.aab   *.apk

- **iOS**:   *.ipa   ./*.app/

- **Linux**:   (...)   /app/

- **macOS**:   *.pkg   ./*.app/

- **Windows**:   *.msix   ./*/

Microsoft®
Application
Virtualization

Android Studio: rust-android-gradle

Visual Studio: AppxManifest.xml / windows-rs
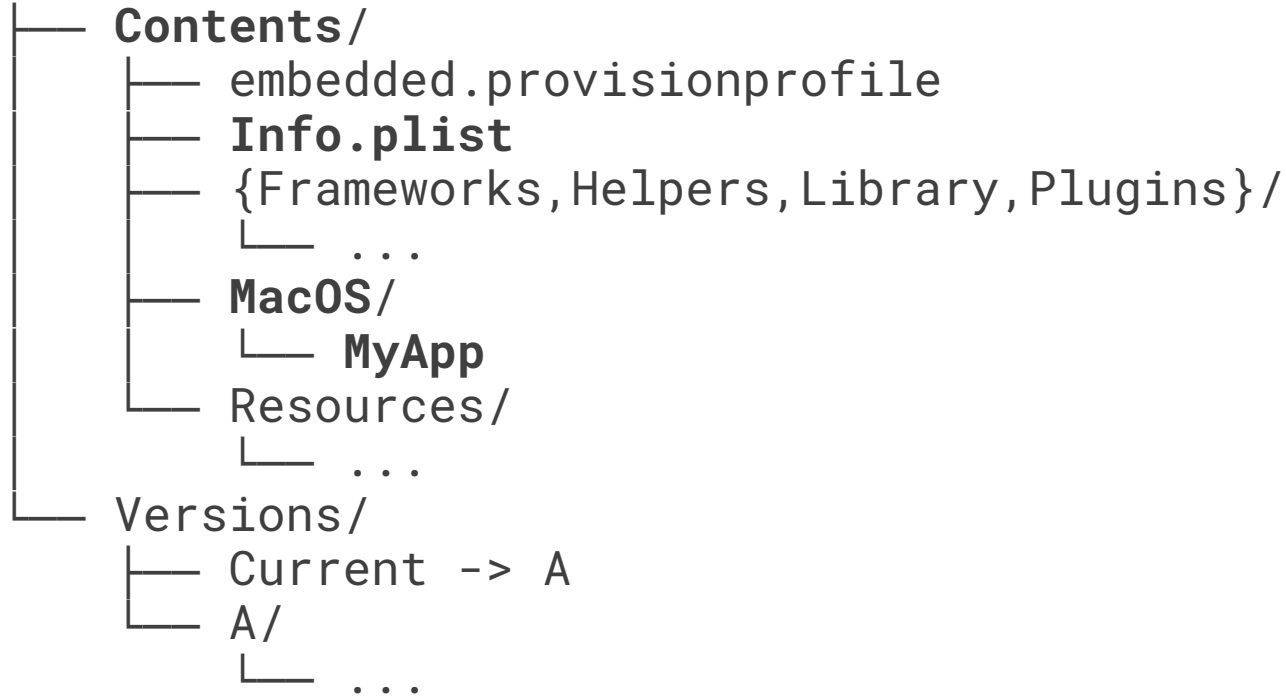
Xcode: cargo-xcode

AppImage/Flatpak/Snap: meson-cargo

Cmake: corrosion

```
MyApp.app/
├── Contents/
│       ├── embedded.provisionprofile
│       ├── Info.plist
│       ├── {Frameworks,Helpers,Library,Plugins}/
│       │       └── ...
│       ├── MacOS/
│       │       └── MyApp
│       └── Resources/
│               └── ...
└── Versions/
        ├── Current -> A
        └── A/
                └── ...
```

Cargo.toml

```
[package]
name = "my-app"
…

[[app]]
name = "MyApp"
path = "src/app.rs"
…
```

```
$ cargo build --app

$ cargo run --app

$ cargo package --app
```

```
$ cargo osiris build

$ cargo osiris run

$ cargo osiris package
```

```
$ cargo osiris build

$ cargo osiris run

$ cargo osiris package
```

#1 Ad-Hoc Execution

#2 Local Configuration

#3 Foreign Language Support

#4 Multi-Binary Compilation

#5 Artifact Filtering

#6 Platform Stability

"*cargo* can emit Application Bundles"

maybe?

THANK YOU

https://robius.rs
https://osiris.foo

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