

Contents

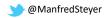
- (npm-)Packages
- Monorepos





Structure of an npm Package

- /node_modules
- your-stuff
- package.json



https://goo.gl/hjt7G3



Angular Package Format





Angular Libraries with ng-packagr

From Components to Angular Package Format.

David Herges





Create Library with CLI >= 6

npm install -g @angular/cli

ng new lib-project

cd lib-project

ng generate library logger-lib

ng generate application playground-app

ng serve --project playground-app

ng build --project logger-lib



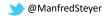
Polder
Structure

Polder
Stru



Publishing to npm Registry

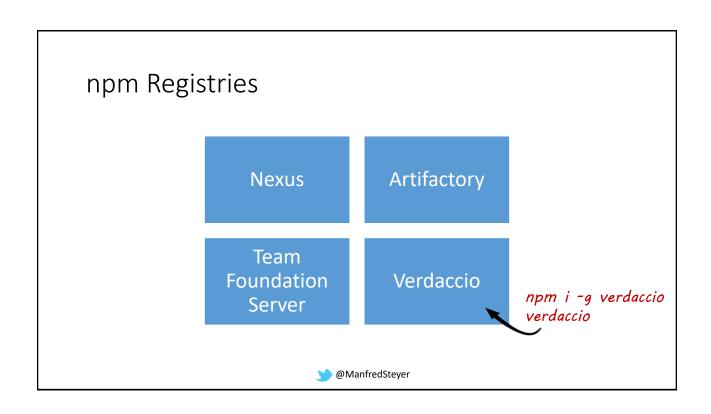
- Increment version in package.json
 - npm version [patch | minor | major | version]
- ng build --project logger-lib
- npm publish --registry http://localhost:4873
- npm install --registry http://localhost:4873



Alternatives for setting the Registry

- Global: npm set registry http://localhost:4873
 - Default: registry.npmjs.org
 - npm get registry
- Project: .npmrc in project root







Advantages

- Distribution
- Versioning
- Decoupling between lib authors and app authors



Disadvantages

- Distribution
- Versioning
- Decoupling between lib authors and app authors

;-)



Disadvantages

Distribution

- Annoying within project
- Prevents gritting further libs

Versioning

- Old versions
- Conflicts
- How to force devs to use latest version?

Decoupling

What if lib authors == app authors?





Monorepo Structure ▶ node_modules
▶ projects
▶ flight-admin
▶ flight-api
▶ light-app
▶ validation
♠ .gitignore
← angular.json
⑤ package-lock.json
⑤ package.json

Advantages

Everyone uses the latest versions

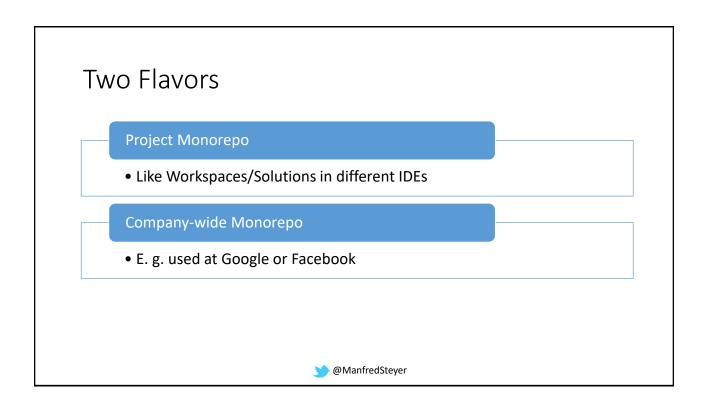
No version conflicts

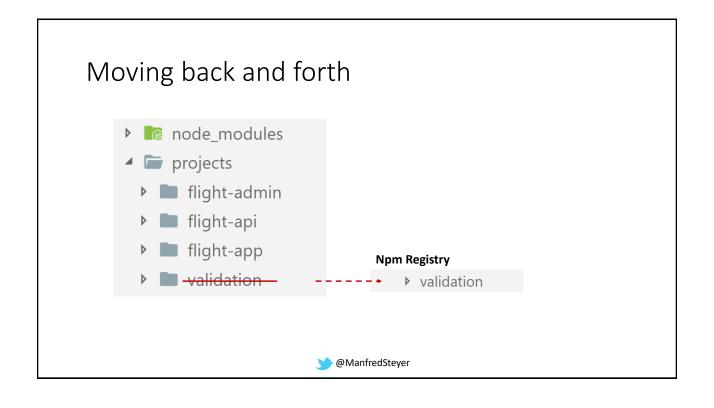
No burden with distributing libs

Creating new libs: Adding folder

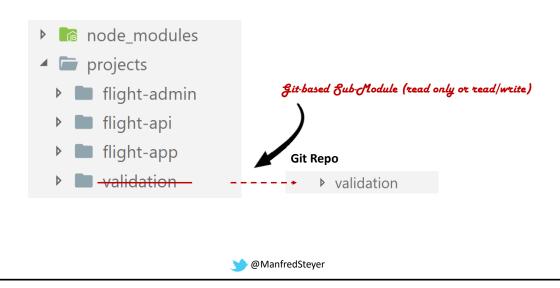
Experience: Successfully used at Google, Facebook, ...







Moving back and forth



Tooling & Generator

https://nrwl.io/nx



Nrwl Extensions for Angular

An open source toolkit for enterprise Angular applications.



