# NX & MICRO FRONTENDS

CONCEPTS

DDD

MODULE FEDERATION What is and why NX?



### What is NX?

Nx is a suite of powerful, extensible dev tools that help you develop, test, build, and scale Angular applications with fully integrated support for modern libraries like Jest, Cypress, ESLint, NgRx, and more.

Why NX?

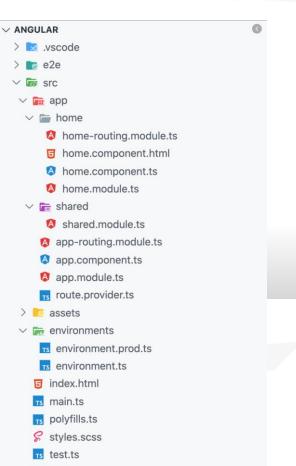
Drive good architecture

Modern Tools

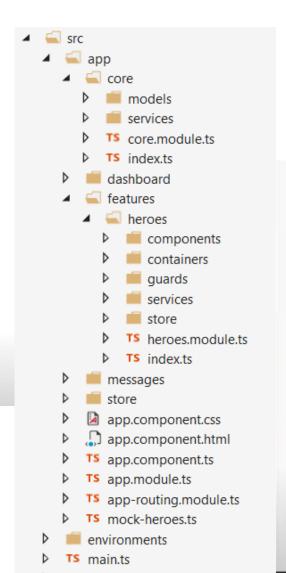
Scalability & speed

### 1. Good Architecture

# Common angular/cli architecture



One big monolith
with a set of folders,
functioning as
feature boundaries





What's intended to be "public" outside of the feature?

What's private and should not be re-used across features?

Source: https://twitter.com/toddmotto/status/900506442804989952/photo/

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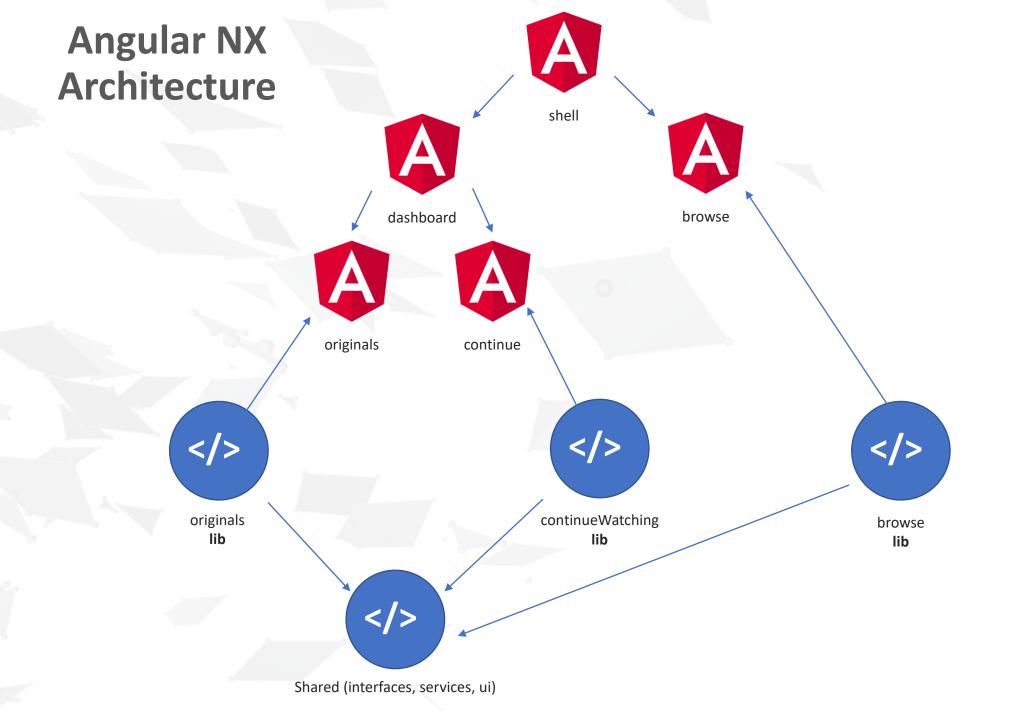


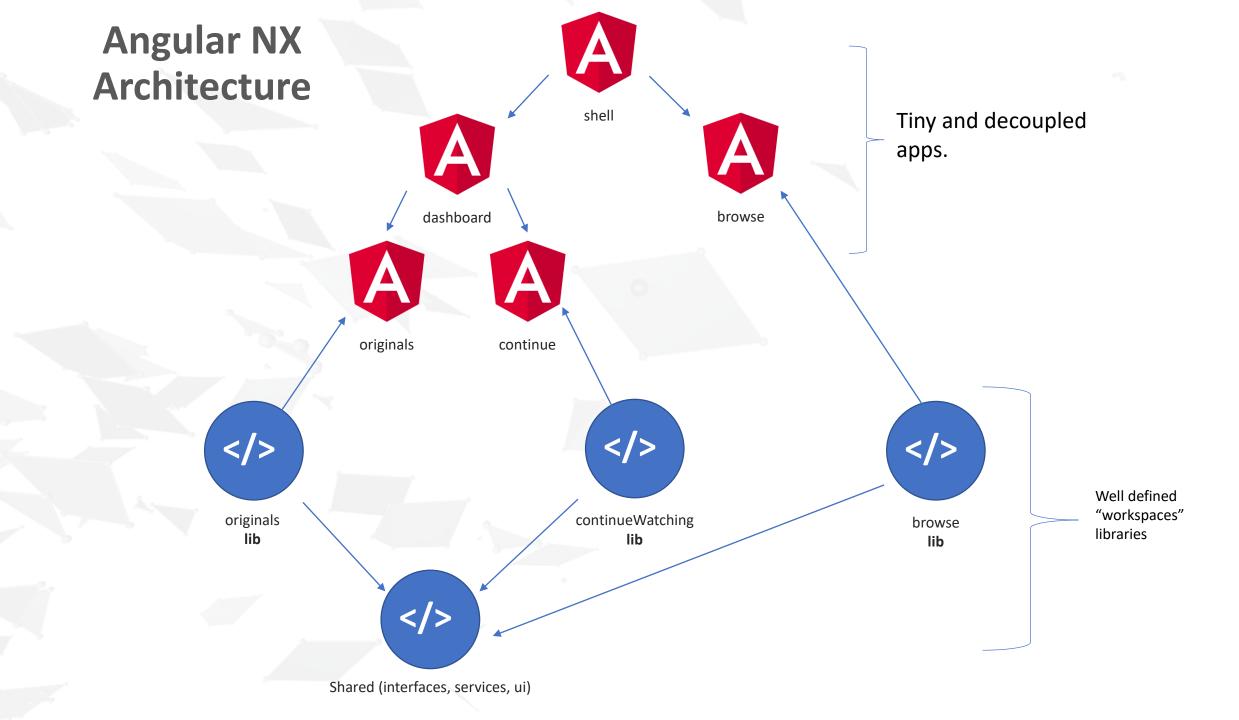






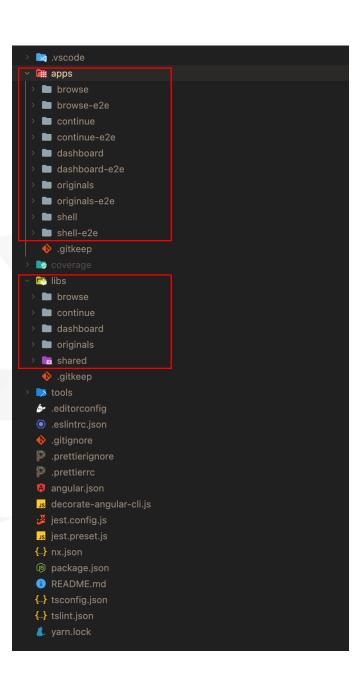




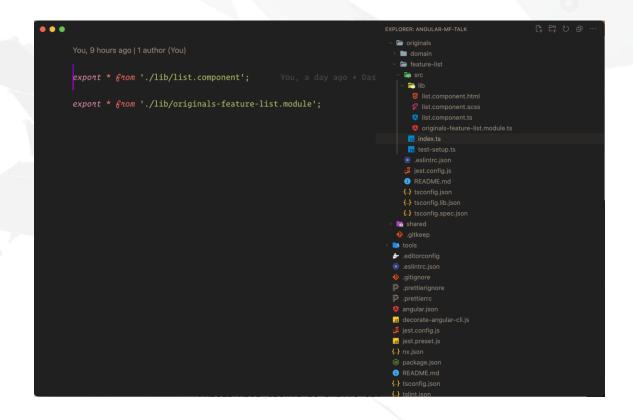


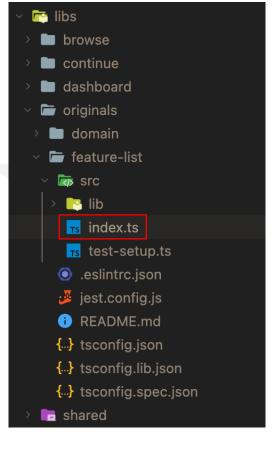
# Apps Deployables

Workspace Libs Sharable



# Workspace Libs Architecture Export what should be public api

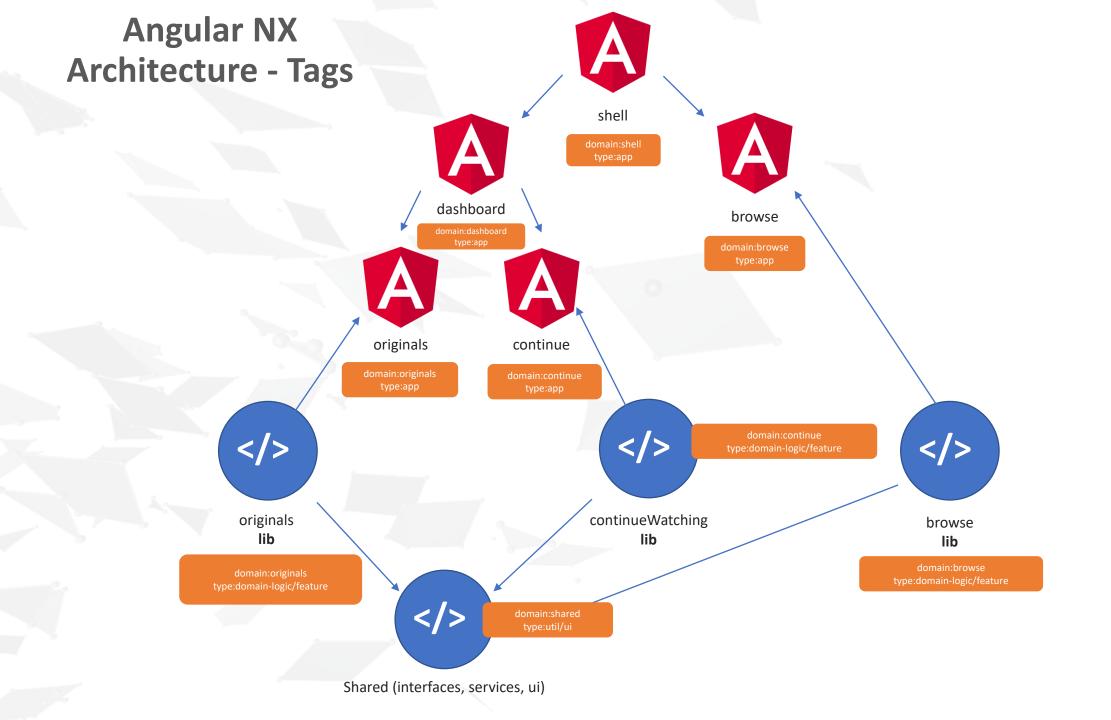




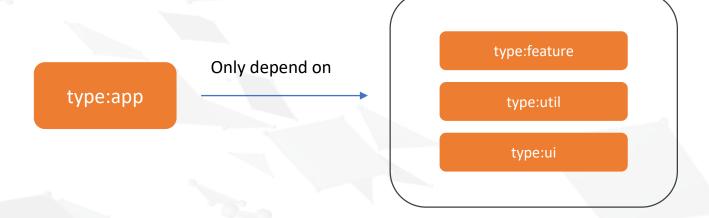
Create boundaries with libraries is **stronger** than do it with folders, and help you think more of what you want to expose in their APIs

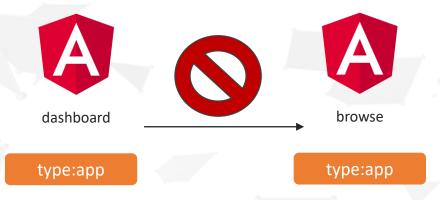
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BUT! How can we enforce that?

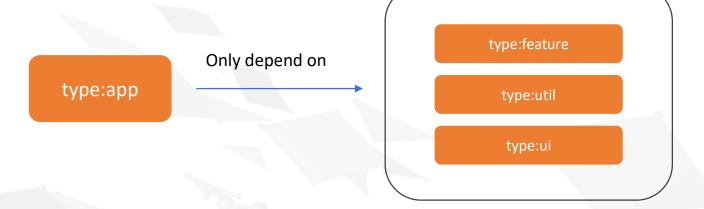


### **Restricting dependencies**





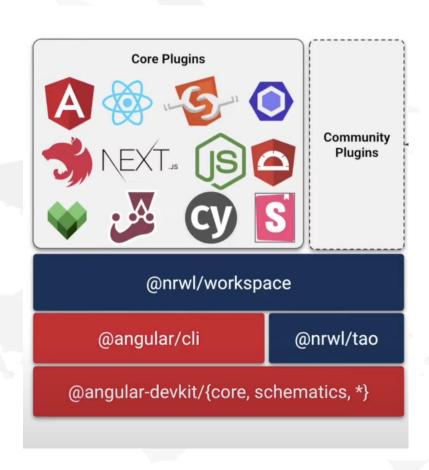
### **Restricting dependencies**





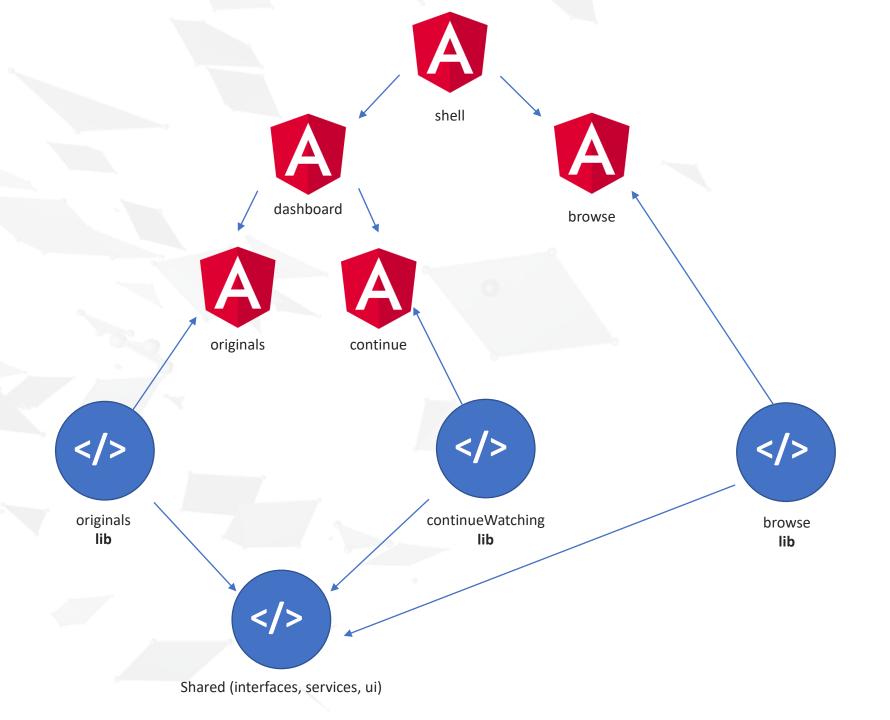


### 2. Modern Tooling

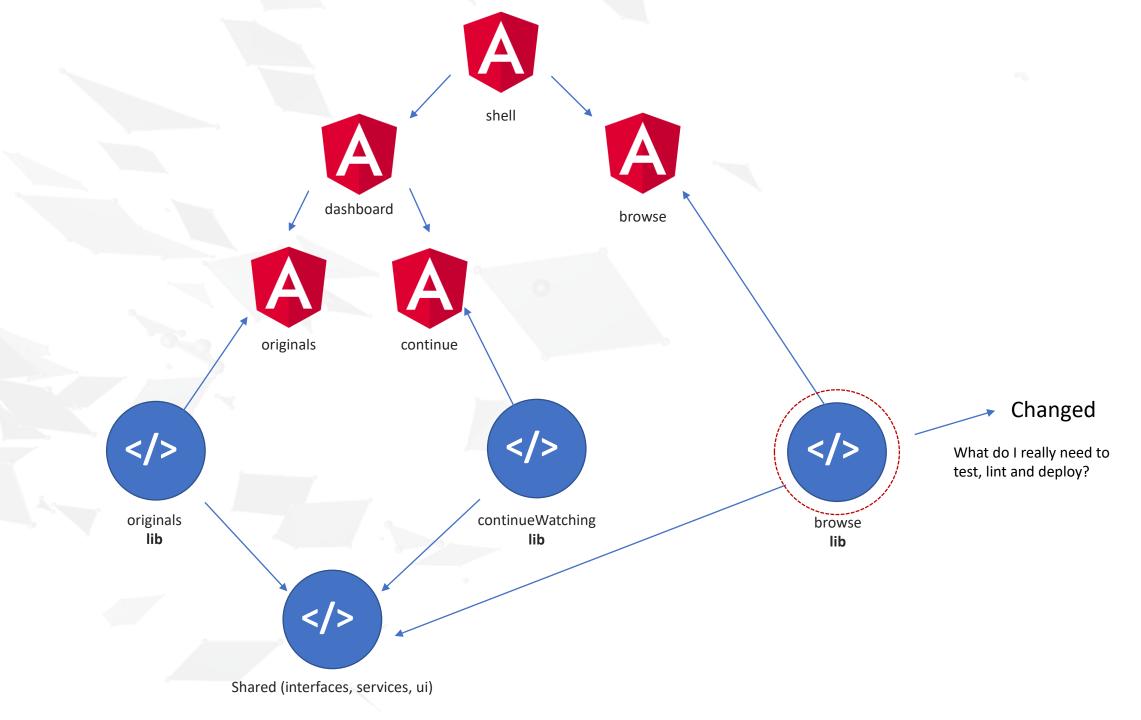


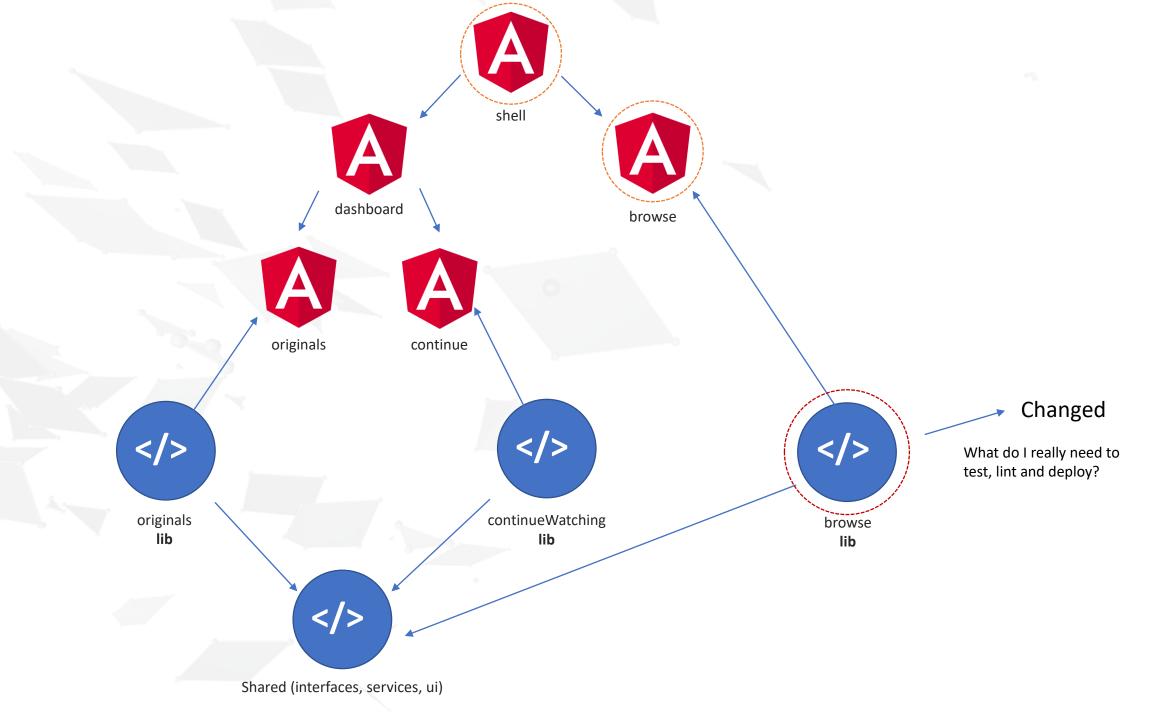
- Comes with eslint (tslint deprecated)
- Prettier for code formatting
- Jest Unit tests (karma)
- Cypress E2E tests (Protractor)

3. Scalability & speed



Do I need to always deploy, test and lint everything?





With nx affected command you can test, deploy and lint only the projects that is affected by the change.



# Where is the Microfrontends here?

# Let's talk shortly about Webpack 5 and Module Federation.

