



TEST FIXTURES WITH AGP

DAUG, Feb 2025

ANDROID ENGINEER

- Big and small
- Corporate and Startup
- Developer, User Advocate, Backend
assistant
- Step my foot to many things except nich
like Bluetooth, Flutter and more

AGENDA

- Hunting for test fixtures with AGP
- Test code reuse/share
- Test Fixtures live coding
- Ouches and Ahas
- Questions



AGP AND TEST FIXTURE

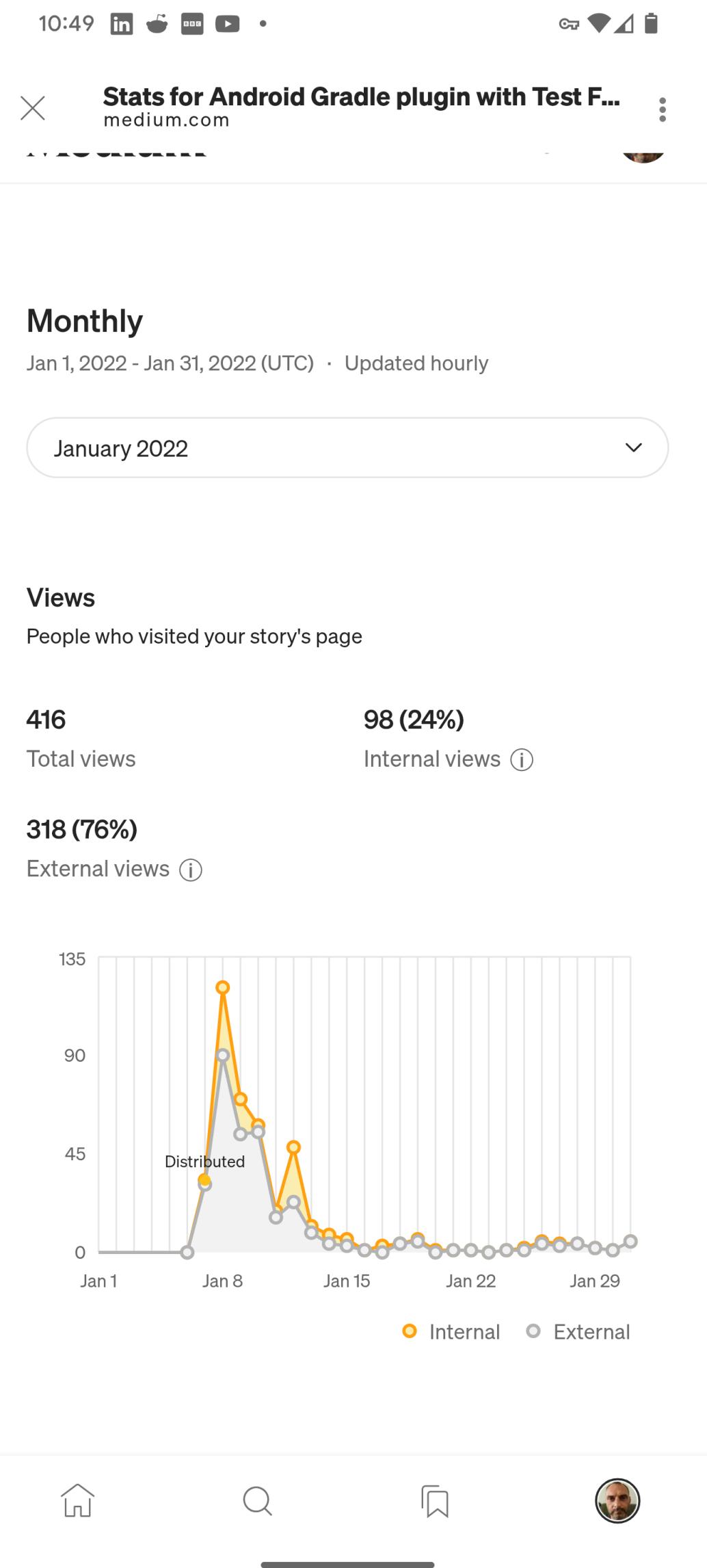
AGP - Android Gradle Plugin

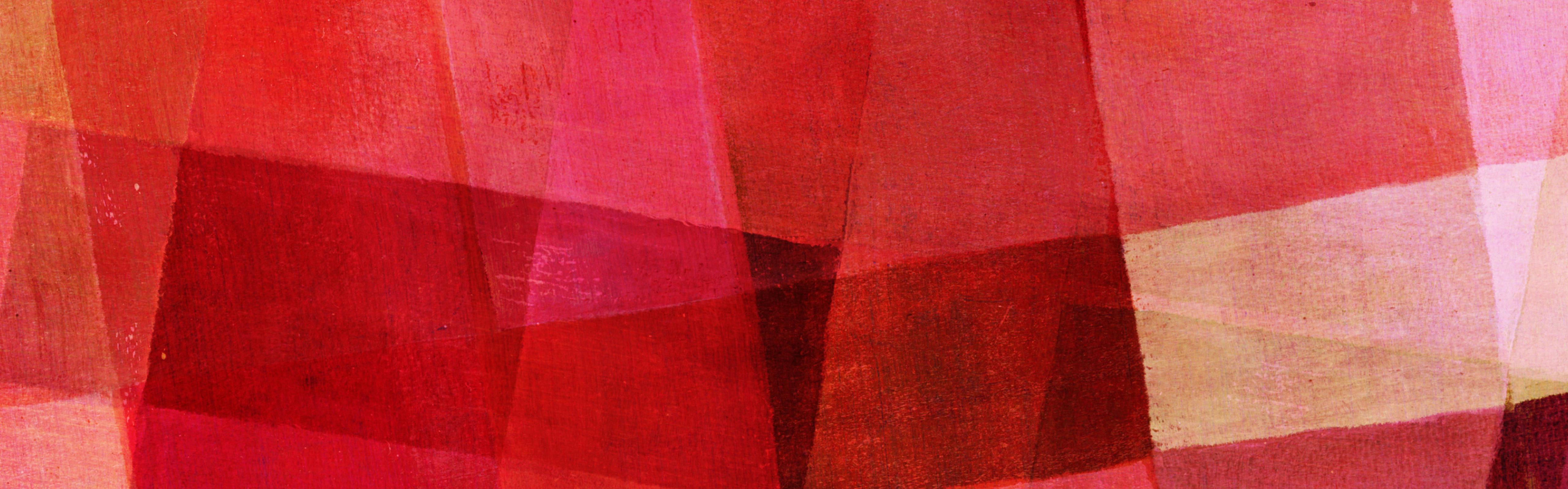
**IT TOOK A LONG TIME AND IT IS
NOT FINISHED :)**

EUGEN HUNTS FOR FAME

- Gradle 6.4 has test fixtures support
- Android Gradle plugin has test fixtures since 7.1.0 version
- Test repo started in July 2021
- Medium Article started in January 2022
- Final guide is published in 16 May 2024

-o	Commits on Jul 24, 2021
	Make project compile with new agp, kotlin and dagger emartynov committed on Jul 24, 2021
	Update dependencies emartynov committed on Jul 24, 2021
-o	Commits on Nov 1, 2020
	Create README.md skywall authored on Nov 1, 2020
-o	Commits on Oct 25, 2020





TEST CODE SHARE

A bit structured overview

TEST CODE IS CODE ALSO

THIS IS THE WAY

- JUnit Nested/Spek/Kotest
- Methods and classes in test sources
- A shared source folder in the module
- A shared testing-related module



TEST FIXTURES

Not a silver bullet

WHO IS THIS DIVA?

HOW TO SELL IT TO YOUR MANAGER

- No new module creation
- Test fixtures have access to internal production code
- Test fixtures could be published in same maven coordinates

**LIVE CODING WITH “NOW IN
ANDROID”**

THE SUMMARY SLIDE FOR THE WHOLE TALK

- AGP 8.5.0+
- Add gradle property
- Configure AGP
- Write test fixture code
- Use it other module

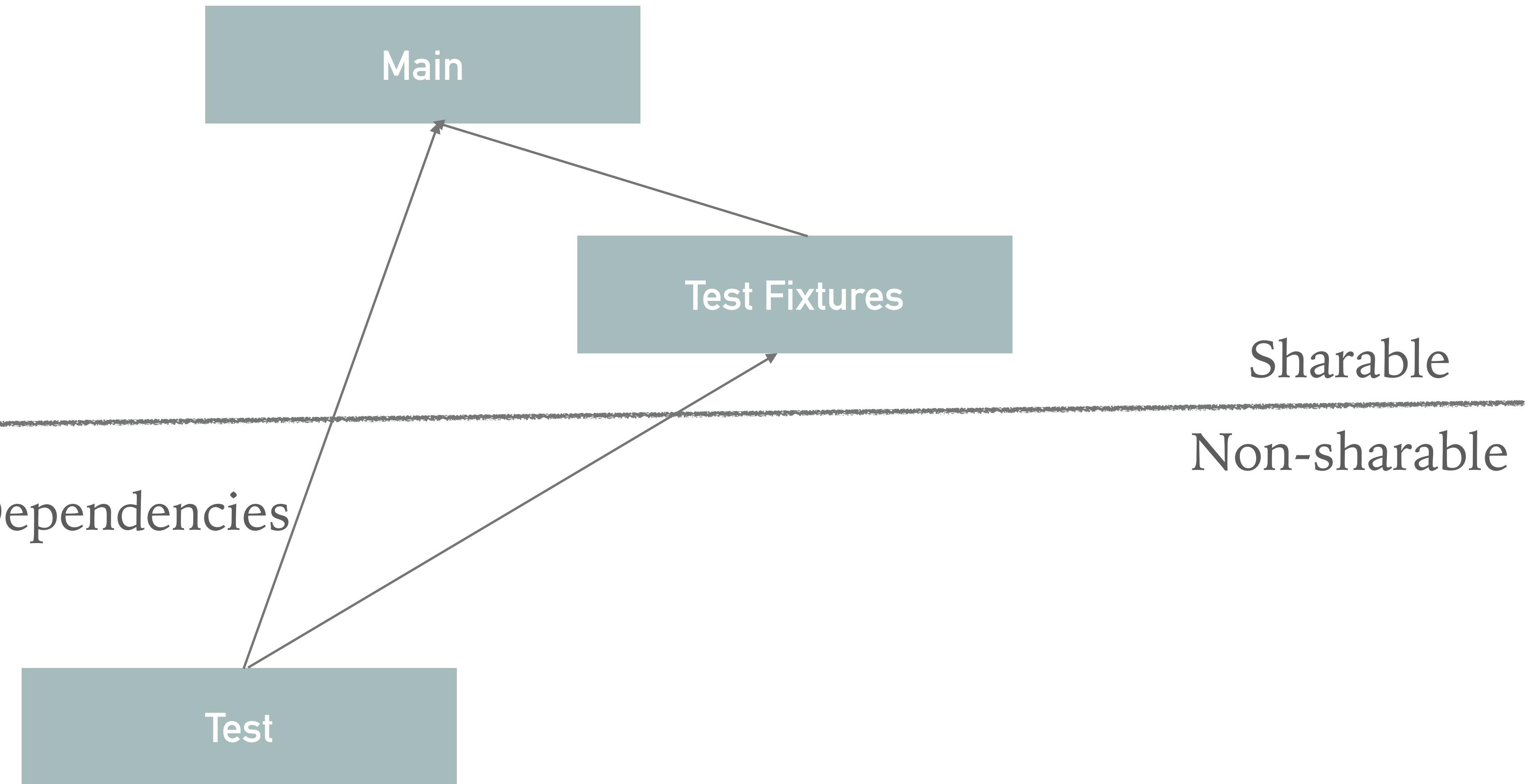
```
# Test fixtures support  
android.experimental.enableTestFixturesKotlinSupport=true
```

```
android {  
    testFixtures {  
        enable = true  
    }  
}
```

```
lib-module-with-test-fixtures  
/src  
/testFixtures  
/<package>  
TestFixtures.kt
```

```
dependencies {  
    testImplementation testFixtures(project(":lib-module-with-test-fixtures"))  
}
```

WHO KNOWS WHO





TEST FIXTURES OUCHES

A fool's paradise

**IT IS NOT SO EASY AS IT LOOKS
FROM THE SEEKS**

THINGS THAT DON'T WORK AS EXPECTED

- You have to add Kotlin standard lib dependency by hand (Fixed in AGP 8.9)
- Test fixtures don't inherit production code dependencies
- IDE support for test-only modules



QUESTIONS/COMMENTS

Thank you! You're amazing!