

A black and white illustration of a large, multi-headed dragon breathing fire in a dark, desolate landscape. The dragon has three heads, each with its mouth open, breathing fire. The dragon's body is covered in scales and has large, spiky wings. The background shows a dark, hazy landscape with mountains and a full moon. The overall mood is dark and ominous.

Maven

Taming the Beast

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Jfokus 2016

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A dark, monochromatic illustration of a multi-headed dragon breathing fire in a desolate landscape. The dragon has three heads, each breathing a stream of fire. The background shows a barren, rocky terrain under a dark sky. The text "Do you hate Maven?" is overlaid in the center in a white, bold, serif font.

Do you hate Maven?



It's slow!

Steep Learning Curve!

It's hard to extend!

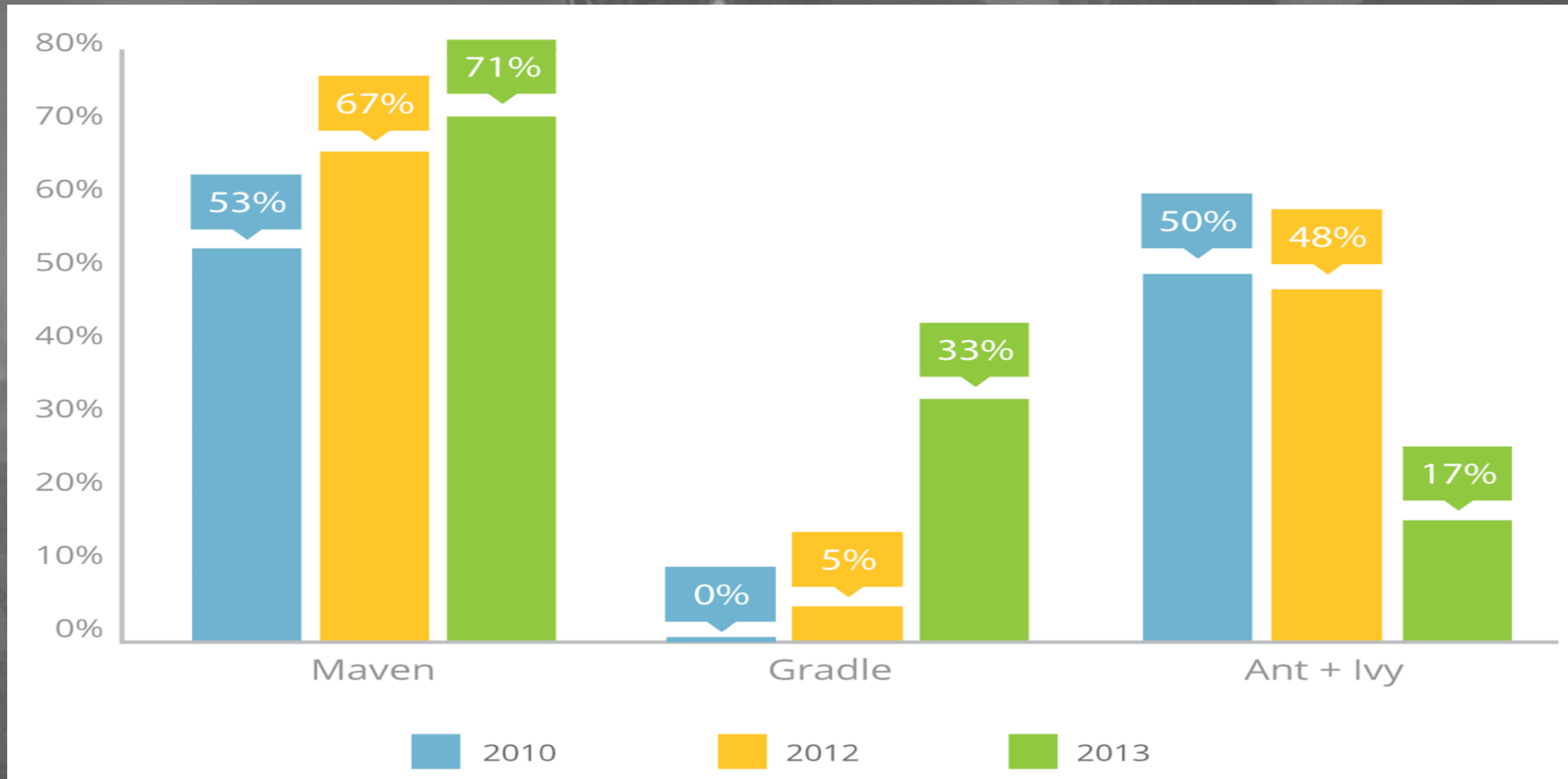
It's XML!

It's unreliable!

It's complex!

It's verbose!

Popularity



Facts



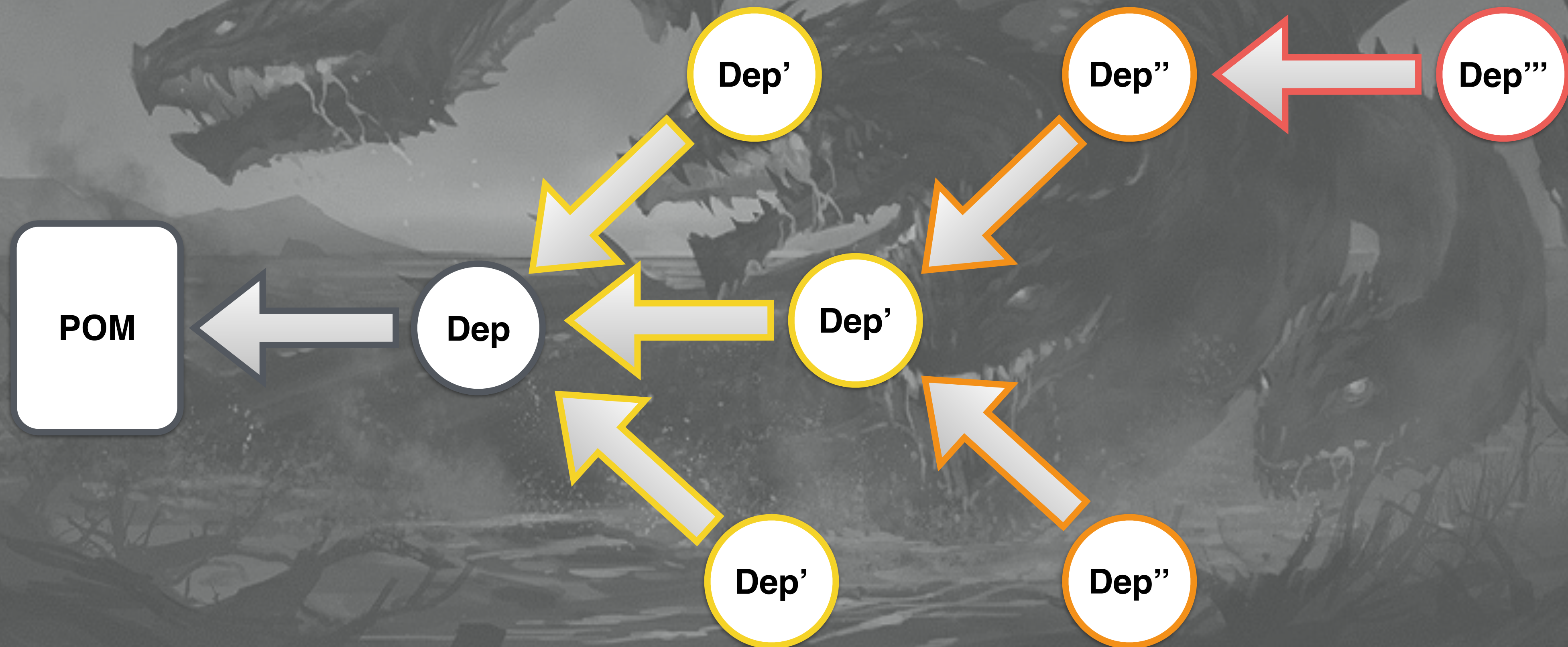
- **It's around for more than 10 years**
- **All developers run into problems**
- **New developers go through the same hard learning process**

Learn how to play with it!

- **What are the most common pitfalls?**
- **How to fix them or debug them?**
- **Save countless hours of pain and frustration**

Why is this JAR in my Build?

Transitive Dependencies



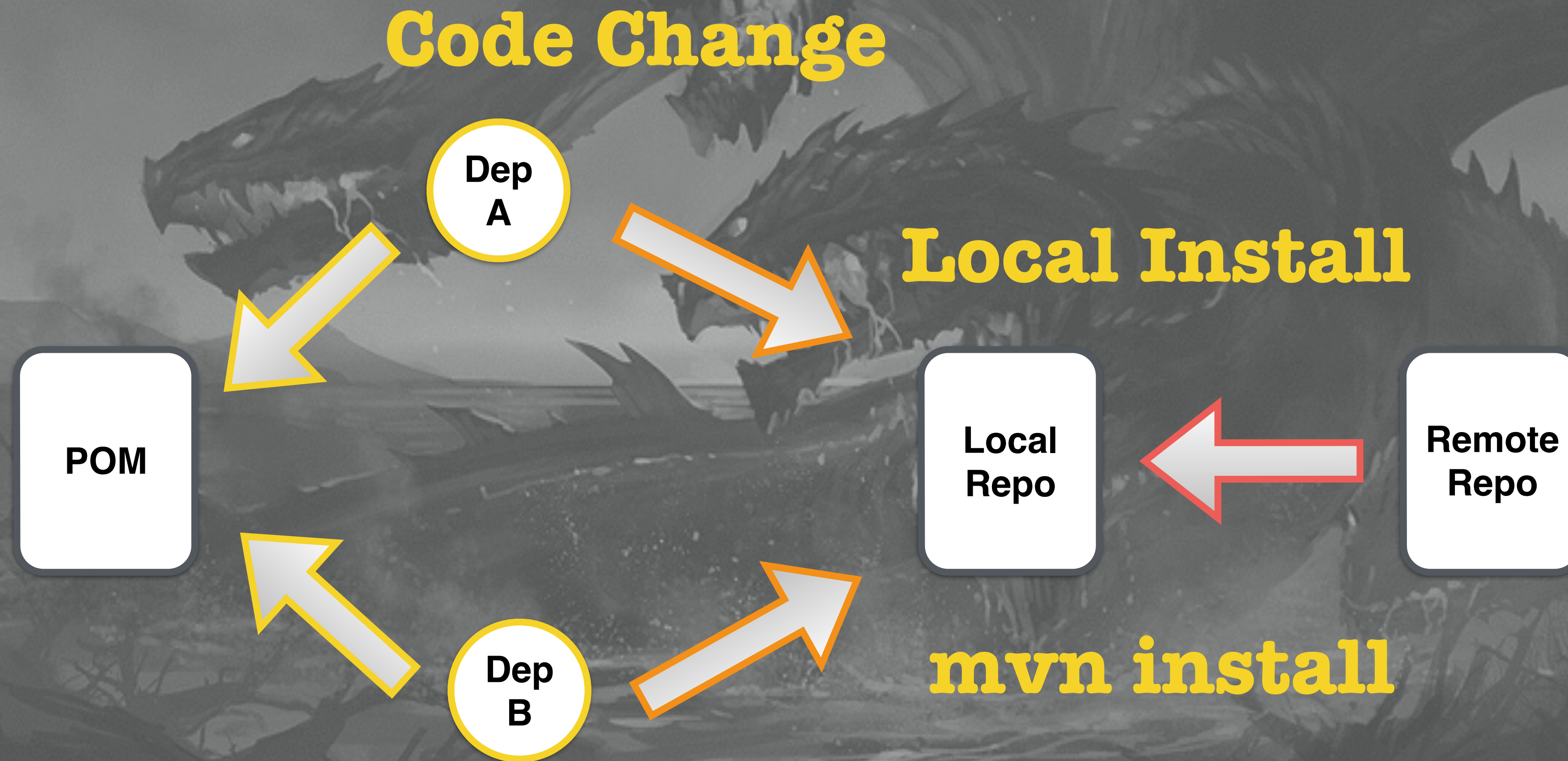
Why is this JAR in my Build?

- Use **mvn dependency:analyze**
- Exclude unneeded dependencies
- Some trial and error involved

I can't see my changes!

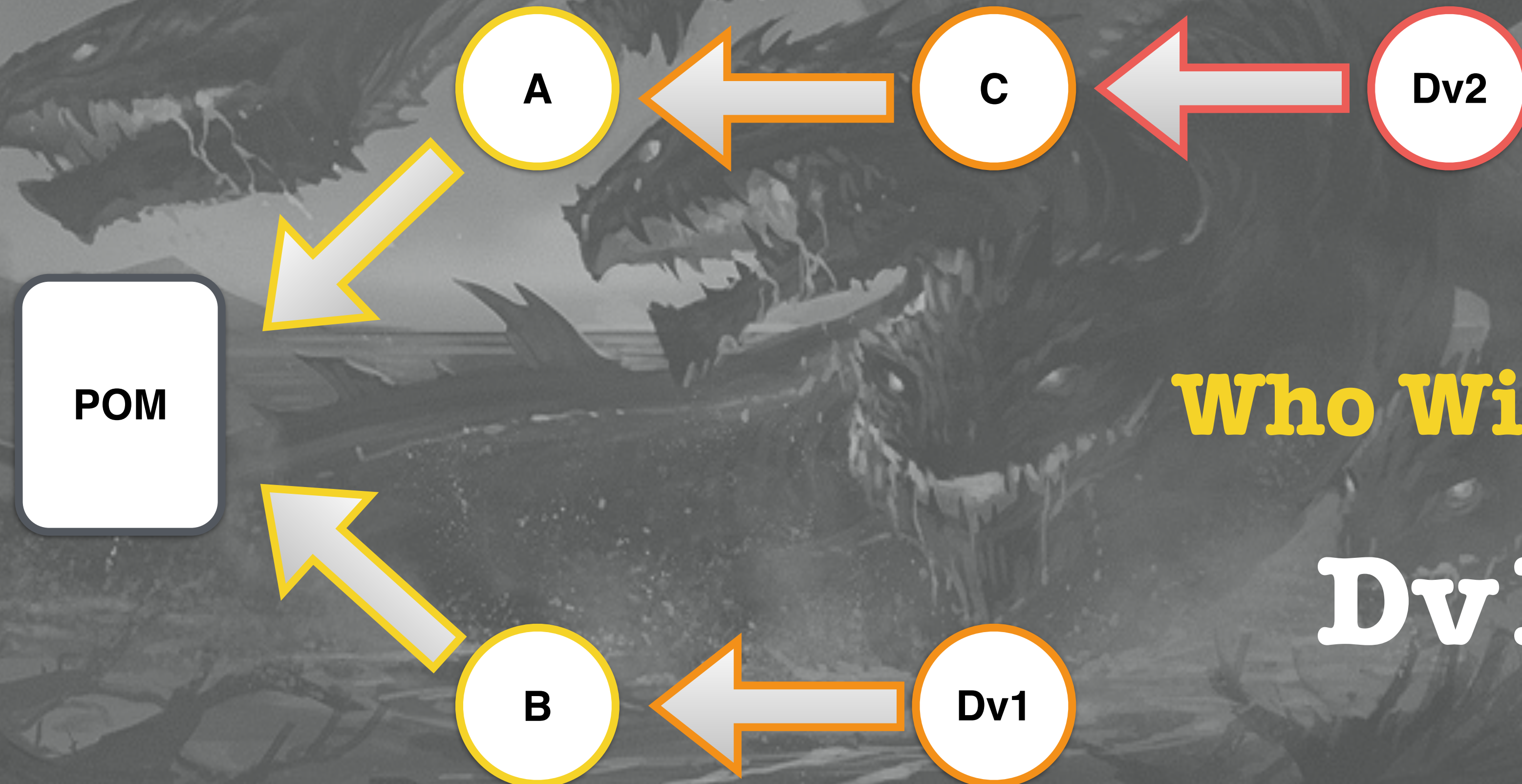
- **Dependencies are not build in the local repo**
- **Dependency version is not correct**
- **Remote repo has overwritten changes**

I can't see my changes!



I can't see my changes!

Dependency Mediation



Who Wins?

Dv1

I can't see my changes!

- Use **mvn dependency:tree**
- **SNAPSHOT** versions from remote may override your local changes

A JAR is not being included!

- Usually related with **Dependency Scopes**
- Might also be excluded somewhere
- Use **mvn dependency:list**

I can't find the Artifact!

- **“Could not resolve dependencies... Could not find artifact”**
- **Even worst than the Java NPE**

I can't find the Artifact!

- **Dependency defined correctly?**
- **Remote repo contains the artifact?**
- **Most recent pom version?**
- **Jar is corrupted?**
- **Cached artifact?**
- **Dependency overridden?**

Weapons of Choice

A dark, atmospheric illustration of a dragon breathing fire in a desolate landscape. The dragon is the central focus, with its head lowered and fire emanating from its mouth. The background shows a hazy, mountainous terrain under a dark sky.

- **mvn help:effective-pom**
- **mvn -Dmaven.repo=/temp/20160210/.m2**
- **mvn -o**

Bonus: Speedup your Build

- **Build in parallel**
- **Build only the modules you need**
- **You should know about offline, right?**

Bonus: Speedup your Build



- **mvn -T 1C install**
- **mvn install -pl moduleName -am / -amd**
- **mvn install -o**

Tamed?





Never trust the IDE!

**If it works on the command-line
then it's an IDE problem!**



Thank you for Attending!

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