

Overview reminder

- QtJenny generates C++ wrappers for Java APIs
- ..by reading the Java metainfo from classes
- ..and generating C++ code that uses the Java classes via JNI (QJniObject)
- QJniObject is good, generated wrappers are good, generated wrappers that use QJniObject are even better

Status quo

- Uses an AnnotationProcessor
- ..which requires a dummy source file on the previous slide

Next

- Uses a classloader and reflection, doesn't require a dummy build
- Single-target generator build done with a Gradle plugin

Summary

- Go from annotations to reflection; no dummy source code needed for code generation
- Type-safe APIs, mis-ordered arguments will give a compiler error, not a JNI runtime error
- Support writing Java interface implementations (i.e. callbacks) in C++ (again with type-safe function signatures)