

# Scripting in Kotlin

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# Motivation

# Why Scripting?

- Being able to quickly create small tools is incredibly useful
- Could be a small addition to your build process
- Could be used to exercise/debug your APIs

# Why Kotlin For Scripting?

- You already know it
- Vast array of libraries (from both Kotlin and Java ecosystems)
- Reuse your “production” code

# Kotlin's Scripting Story

- Kotlin compiler has a mode in which you can run scripts
- This is already quite useful for really simple tasks

# Demo

# But...

- Bringing in dependencies from maven central is painful
- Sharing code is painful
- Need to have Kotlin + Gradle/Maven installed to run the script
- Script needs to be recompiled on each run, even if nothing has changed
- Cannot customize JVM options
- Poor tooling



***ENTER...***

***KSCRIPT***

# What is kscript?

- Enhanced scripting support for Kotlin on \*nix-based systems
- Fixes a lot of problems with kotlinc
- <https://github.com/holgerbrandl/kscript>

# Demo

Is everything hunky dory?

**No**

# Problems

- Slow! JVM startup time is still a problem
- Tooling is bad
- kscript can produce an IDEA project, but:
  - Cannot run/debug from the project
  - Really slow and buggy

# Thank You!

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