Literature review and the research question

How could (a language similar to) Kotlin implement this

Some papers that are more general to the topic I want to study. Course on static analysis/data flow analysis

References in the Kotlin reference?

Goals: understand control and data flow in the Kotlin specification (4 ish weeks), look through the rest as well

General introduction to reference analysis

Write some Kotlin code

Finding a book or a paper would be the best to get started. I can ask wouter or wishnu as well.

Another goal: understand the code that doesn’t analyze right now

What happens if the variable is computed from an if then else

There is interplay between types and control flow graph

Smart casting and nullability analysis (can be found in documentation)

Pattern matching is interesting with points-to analysis.

Control flow analysis for Haskell, Scala, Java

I can ask about the Kotlin team doing the advent of code

Goals:

Find book or course about analysis

Program some Kotlin

Find the literature from the Kotlin reference manual