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## **Advanced topics**

As this paper is primarily an introduction to the Kotlin language itself, it does not include certain advanced use-cases.

The following is a list of incredibly useful language features and links to their references.

- The standard library
  - Kotlin has an immense standard library, which is best learned through experience. Often, searching for an implementation of a complex utility function will reveal that it already exists in the stdlib.

#### Reflection

 Kotlin has its own advanced reflection system — however, its complexities and gotchas are too great to discuss in an introductory paper.

#### Collections

- Kotlin has an extensive amount of collection types and a large support library providing operations like map, filter, and fold as extension functions.
- Coroutines (suspend functions)
  - Enables safe, structured, asynchronous programming without much need for synchronization

### • Kotlin/Native

- Compiles Kotlin to native binaries this is *very* experimental.
- Multiplatform projects (Gradle only)
  - Builds projects for multiple platforms (JVM, JS, Native) using a single common project