Kotlin Collection Classes

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Overview

Collections can be Nullable

Collections can hold null values

Collections can be read-only or mutable

Kotlin collections interop with Java

Arrays in Kotlin

Creating
Collections

listOf, setOf, mapOf

arrayListOf, hashSetOf, hashMapOf

mutableListOf,

etc...

Demo

Using Collections

Kotlin collections and Java

Kotlin collections and Java collections are the same

Java does not distinguish between mutable and immutable collections

Collections as Platform Types

When overriding/implementing method ...

Is the collection nullable/mutable

Are the members nullable/mutable

Demo

Using Java collections from Kotlin

Arrays in Kotlin

Array is a class with a type parameter

Can create with
- arrayOf
- arrayOfNulls
- Array() function

Primitive types

Each primitive has its own array type

- IntArray

- ByteArray

- CharArray

- etc

Working with arrays

Kotlin provides the same functions on arrays as on collection classes

Summary

Kotlin provides an extensive set of collections

Arrays, maps, sets and lists

Can be read-only

Excellent interop with Java