

Kotlin is like a combination of Java and Python

<https://www.educba.com/java-vs-kotlin>

<https://hackr.io/blog/kotlin-vs-java>

Differences

Characteristic / Feature	Kotlin	Java	Python
Data Types	Not necessary to specify types when declaring variables.	Must always specify data types.	Don't specify data types.
Data Classes	Use keyword "data" for data class and compiler will take care of the rest.	Usually need to declare many methods (toString, getters and setters, equals, etc.).	Use dataclass module to help but still often need to make methods.
Casting	Use keyword "is-checks" that checks for immutable values and performs casting.	Need to explicitly cast and check data types.	May need to cast if functionality requires. Has casting functions.
Exception Handling	Has no exception catching.	Offers exception handling (try/catch).	Offers exception handling (try/except).
Threading	Can easily make multiple threads.	Provides threading but is very complex to keep track of.	Offers threading that is relatively easy to implement.
Null Types	Cannot set variables to NULL: non-nullable.	Allows usage of NULL and throws NullPointerException.	Has usage of null and None.
Conciseness	Extremely concise compared to Java.	Requires a lot of code to get a class started.	Approximately the same conciseness as Kotlin.
Extension	Can make extension functions by prefixing the name of the class that needs to be extended to the name of function.	Must create a separate class and use keyword extends.	Can extend classes using imports.
Ternary Operators	Does not have operator.	Provides operator: booleanExpression ? expression1 : expression2	Provides operator: [on_true] if [expression] else [on_false]

