AULA 5

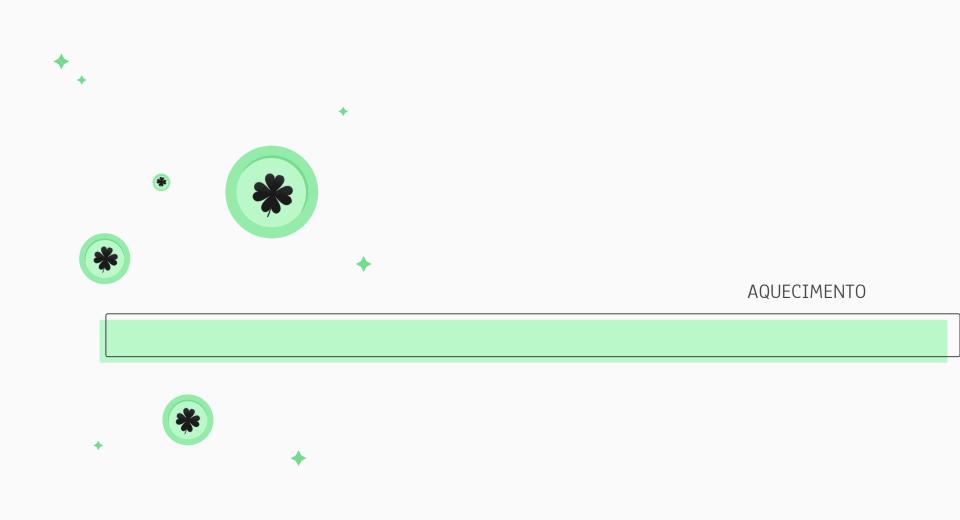
Kotlin

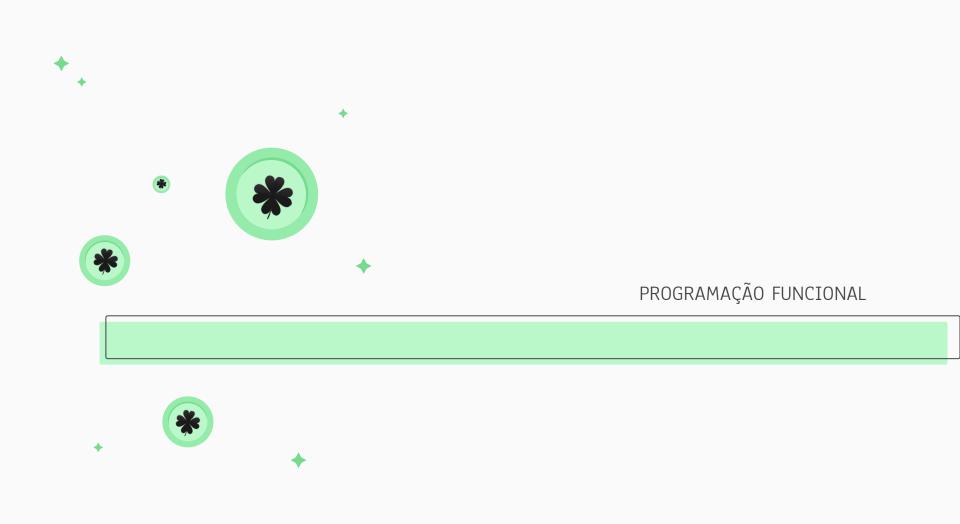




O3 LAMBDAS

Programação funcional Métodos úteis





PALAVRAS CHAVE

IMMUTABILITY

STATELESS

RECURSÃO

HIGH ORDER FUNCTIONS

LAZY EVALUATIONS

DOJO - FILTER & MAP

```
fun main(args: Array<String>) {
   val timesTwo = \{ x: Int \rightarrow x * 2 \}
   val add: (Int, Int) -> Int = { x: Int, y: Int -> x + y }
   val toA: (Char) -> String = {letra: Char -> "$letra OI"}
                                   fun main(args: Array<String>) {
   val list =(1..100).toList()
```

```
//map()
print(list.filter { element ->
```

val list = (1..100).toList() element % 2 == 0 })

val doubled = list.map { element -> element * 2 } list.map { it * 2 } list.filter {

it % 2 == 0 print(doubled)

val average = list.average() list.filter(::isEven) val shifted = list.map { it - average }

print(shifted)

fun isEven(i: Int) = i % 2 == 0

DOJO - TAKE, DROP & ZIP

```
fun main(args: Array<String>) {
   //take()
   val list =(1..100).toList()
   val takeFirst10 = list.take(10)
   print(takeFirst10)
   //drop()
   val drop10First = list.drop(10)
   print(drop10First)
```

```
fun main(args: Array<String>) {
   val list = listOf("hi", "there", "kotlin", "fans")
   val containsT = listOf(false, true, true, false)

val zipped: List<Pair<String, Boolean>> = list.zip(containsT)
   val mapping = list.zip(list.map { it.contains("t")})

print(zipped)
   print(mapping)
}
```

