

Maps

Making Maps

We can make a map from Pairs.

```
val map1 = mapOf(Pair("A", 22), Pair("B", 33))
```

Or we can use the shorthand to construct Pairs.

```
val map2 = mapOf("A" to 22, "B" to 33)
```

A more sophisticated way to make a map is by grouping a list.

```
val list = listOf("aa", "ba", "bcc", "cs", "bfff", "e")
val grouped: Map<Int, List<String>> = list.groupBy { s -> s.length
}
```

Accessing Data from Maps

Input the key, it will output the corresponding value, **or null if the key is not in the map.**

```
val salaries = mapOf(Role.SW_ENG to 50000,
    Role.SENIOR_SW_ENG to 70000,
    Role.ENG_MANAGER to 90000,
    Role.DIRECTOR to 140000)

val salaries: List<Int> = filterNotNull.mapNotNull { sm ->
    salaries[sm.role] }
```