

Enumeration

Here we define an enumerated data type that contains seven instances, one for each day of the week.

```
enum class DayOfWeek(val fullName: String) {
    SUN("Sunday"),
    MON("Monday"),
    TUE("Tuesday"),
    WED("Wednesday"),
    THU("Thursday"),
    FRI("Friday"),
    SAT("Saturday");
}
```

A simpler version.

```
enum class Day {
    MON, TUE, WED, THU, FRI, SAT, SUN
}
```

Properties and Methods

`enums` can have properties and methods.

```
fun isWeekDay(): Boolean = this in MON..FRI
println("Is ${d.fullName} a weekday? " + d.isWeekDay() )
```

this Reference

`this` references the receiving object.

enums and when clauses

`enums` work well with `when` clauses:

```
fun isWeekend(): Boolean =  
    when (this) {  
        SAT, SUN -> true  
        else      -> false  
    }
```

Picking a random entry

Pick a day of the week at random:

```
val d: DayOfWeek = DayOfWeek.entries.random()
```