

Part 13 - Enumerations

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**Definition: Enumeration**

A set of name to integer value associations.

Declaring an Enumeration

Enumerations are handy to use as fields and properties in classes.

declaring an enum

```
enum Day:
    Sunday
    Monday
    Tuesday
    Wednesday
    Thursday
    Friday
    Saturday

class Action:
    [Property(Day)]
    _day as Day
```

Enumerations are also handy in preventing "magic numbers", which can cause unreadable code.

**Definition: Magic Number**

Any number outside of -1, 0, 1, or 2.

Enumerations technically assign an integer value to each value, but that should generally be abstracted from view.

declaring an enum

```
enum Test:
    Alpha
    Bravo
    Charlie
```

is the same as

declaring an enum

```
enum Test:  
    Alpha = 0  
    Bravo = 1  
    Charlie = 2
```



Recommendation

Except in special cases, do not assign numbers.

Exercises

1. Think of another good instance of using `enums`.

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