

Enumerations

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Outline

- **What is an Enumeration?**
- **Simple Enumerations**
- **Enumerations are Classes**
- **Complex Enumeration**

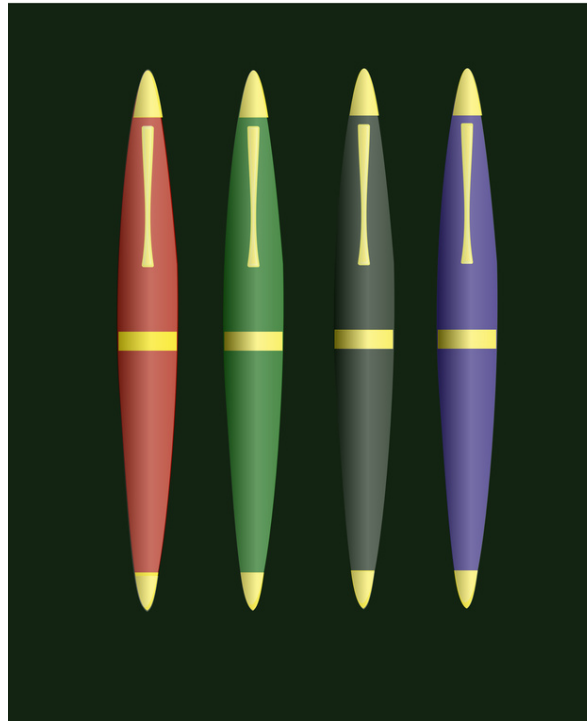
Enumerations

- Exact listing of all elements of a set



Why Enumerations?

- Way of naming things
- Type safe
- Limits input
- Groups things in a set
- Iterable

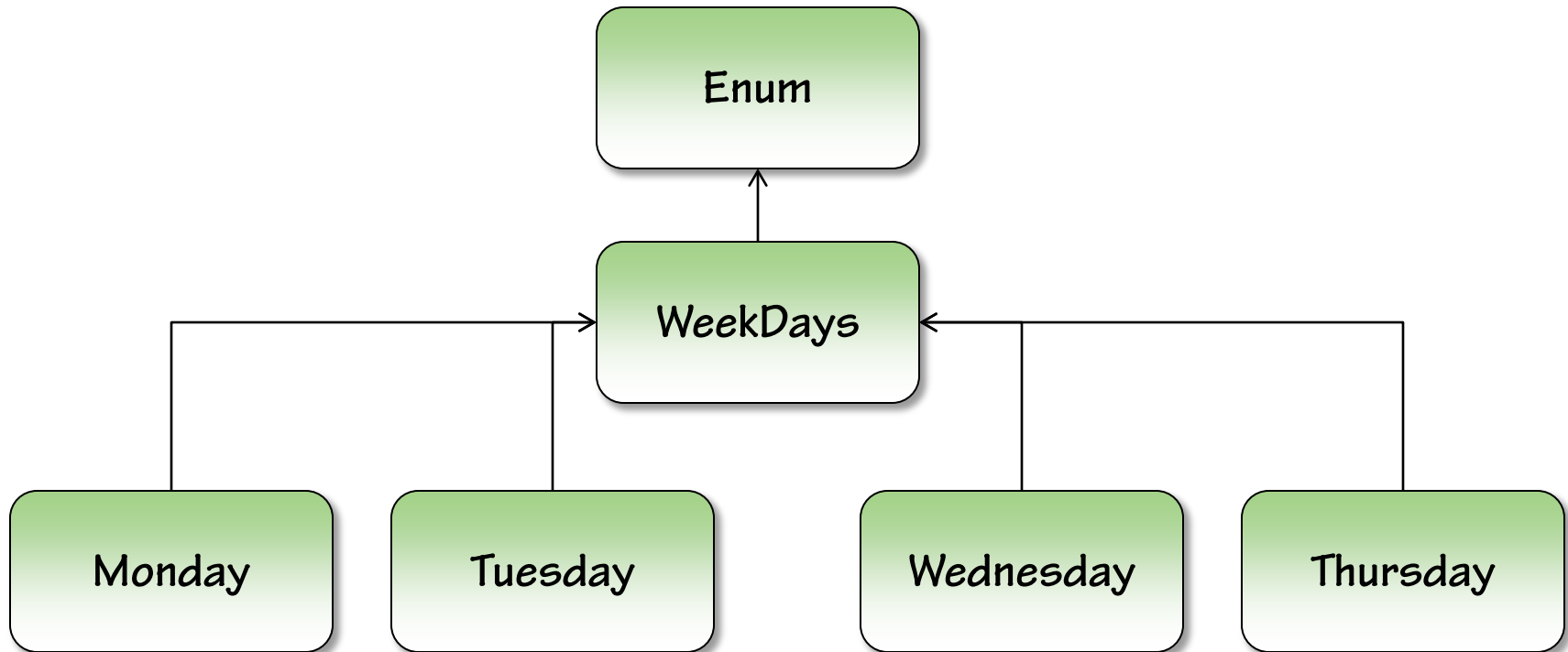


When to Use?

- As much as possible!
- Anytime constraining input is beneficial
- In place of string constants
- In place of integers used as types



Enumerations are Classes



Enum Class

- Values method
- Constructor
- Members
- Use as a Singleton



Summary

- What is an Enumeration?
- Simple Enumerations
- Enumerations are Classes
- Complex Enumeration

