

Chapter 7: Enum

Section 7.1: Creating an enum (Python 2.4 through 3.3)

Enums have been backported from Python 3.4 to Python 2.4 through Python 3.3. You can get this the [enum34](#) backport from PyPI.

```
pip install enum34
```

Creation of an enum is identical to how it works in Python 3.4+

```
from enum import Enum

class Color(Enum):
    red = 1
    green = 2
    blue = 3

print(Color.red) # Color.red
print(Color(1)) # Color.red
print(Color['red']) # Color.red
```

Section 7.2: Iteration

Enums are iterable:

```
class Color(Enum):
    red = 1
    green = 2
    blue = 3

[c for c in Color] # [<Color.red: 1>, <Color.green: 2>, <Color.blue: 3>]
```