

Enumerationstypen



Java 1.4: Menge benannter Konstantenwerte

```
// colors
static final int RED = 0;
static final int BLUE = 1;
static final int GREEN = 2;
```

```
int color = BLUE;
```

```
// priorities
static final int LOW = 0;
static final int NORMAL = 1;
static final int HIGH = 2;
```

```
int priority = HIGH;
```

Problem: keine Typprüfung zwischen Konstantenmengen

```
int color = HIGH; ← Compiler meldet keinen Fehler
```

Java 5.0: Enumerationstypen

```
enum Color {
    RED, BLUE, GREEN
}
```

```
Color color = Color.BLUE;
```

Compiler prüft, dass nur *Color*-Werte zugewiesen werden

```
enum Priority {
    LOW(1), NORMAL(2), HIGH(4);
    private int val;
    private Priority(int val) { this.val = val; }
    public int value() { return val; }
}
```

```
Priority prio = Priority.HIGH;
System.out.println(prio.value()); // 4
```