

# Enum

## revisar

- <https://www.mkyong.com/java/java-enum-example/>

## ejemplos

### simple

```
public enum UserStatus {  
    PENDING,  
    ACTIVE,  
    INACTIVE,  
    DELETED;  
}
```

```
System.out.println(UserStatus.ACTIVE);    //ACTIVE
```

### simple + campo

```
public enum WhoisRIR {  
    ARIN("whois.arin.net"),  
    RIPE("whois.ripe.net"),  
    APNIC("whois.apnic.net"),  
    AFRINIC("whois.afrinic.net"),  
    LACNIC("whois.lacnic.net"),  
    JPNIC("whois.nic.ad.jp"),  
    KRNIC("whois.nic.or.kr"),  
    CNNIC("ipwhois.cnnic.cn"),  
    UNKNOWN("");  
  
    private String url;  
  
    WhoisRIR(String url) {  
        this.url = url;  
    }  
  
    public String url() {  
        return url;  
    }  
}
```

```
System.out.println(WhoisRIR.ARIN.url());    //whois.arin.net
```

## simple + campo + lógica

```
public enum Operation {
    PLUS,
    MINUS,
    TIMES,
    DIVIDE;

    double calculate(double x, double y) {
        switch (this) {
            case PLUS:
                return x + y;
            case MINUS:
                return x - y;
            case TIMES:
                return x * y;
            case DIVIDE:
                return x / y;
            default:
                throw new AssertionError("Unknown operations " + this);
        }
    }
}
```

```
double result = Operation.PLUS.calculate(1, 2);
System.out.println(result); //3.0
```

## bucle

```
for (UserStatus status : UserStatus.values()) {
    System.out.println(status);
}
```

```
PENDING
ACTIVE
INACTIVE
DELETED
```

## comparación

```
WhoisRIR rir = WhoisRIR.APNIC;

if(rir == WhoisRIR.APNIC) {
```

```
        System.out.println("This is APNIC : " + rir.url()); //This is APNIC :  
whois.apnic.net  
    }
```

## comparacion 2

```
public class Test {  
  
    public static void main(String[] args) {  
  
        WhoisRIR rir = WhoisRIR.RIPE;  
  
        switch (rir) {  
            case ARIN:  
                System.out.println("This is ARIN");  
                break;  
            case APNIC:  
                System.out.println("This is APNIC");  
                break;  
            case RIPE:  
                System.out.println("This is RIPE"); // This is RIPE  
                break;  
            default:  
                throw new AssertionError("Unknown RIR " + rir);  
        }  
    }  
}
```

## string to enum

```
//enum valueOf + uppercase  
Operation op = Operation.valueOf("times".toUpperCase());  
System.out.println(op.calculate(10, 3)); // 30.0
```

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