

UnitParser (Java)

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Introduction

The main class is called *UnitP* (*UnitParser* package). It can be instantiated in many different ways.

```
//1 N.
UnitP unitP = new UnitP("1 N");

//1 N.
unitP = new UnitP(1.0, UnitSymbols.Newton);

//1 N.
unitP = new UnitP(1.0, "nEwTon");

//1 N.
unitP = new UnitP(1.0, Units.Newton);
```

UnitP can be seen as an abstract concept including many specific types ([full list](#)). Same-type variables can be added/subtracted. Different-type variables can be multiplied/divided, but only in case of generating a valid-type output.

```
//2 N.
unitP = UnitP.Addition(new UnitP("1 N"), new UnitP(1.0, Units.Newton));

//1 J.
unitP = UnitP.Multiplication(new UnitP("1 N"), new UnitP("1 m"));

//Error not triggering an exception.
//The output unit N*m^2 doesn't match any supported type.
unitP = UnitP.Multiplication
(
    UnitP.Multiplication
    (
        new UnitP("1 N"), new UnitP("1 m")
    ),
    new UnitP("1 m")
);
```

Main Variable Information

UnitP variables are defined according to various *final* fields populated at instantiation.

Unit - Corresponding [Units](#) member.

UnitType - Corresponding [UnitTypes](#) member.

