frame

Expression

+ value: Value + text: String

+ Solve(): Value + convert(Unit): void + parse(): ExpTree

Value

- + quantity: double
- + unit: Unit
- + convert(Unit): void

Unit

- + system: System + name: String
- + abbrev: String + descript: String
- + compound: UnitCombo
- + setDesc(): void + getBasic(): UnitCombo

System

+ name: String + length : UnitConv + time: UnitConv + mass: UnitConv + charge: UnitConv

+ temp: UnitConv + brightness: UnitConv

+ convert(Value): Value

UnitPower

+ unit: Unit + power: double

+ setPower(): void

UnitCombo

+ combo: List<UnitPower>

+ add(Unit,double): void

Conversion graphs should not contain loops.

UnitConv

+ unitOne: Unit + unitTwo: Unit + conversion: double

+ convert(double): double

Convert from unitOne to unitTwo