Units

This page describes all functions and operations available for units

Usage

Most basic unit is plain number, such as `'1'` or `'4.5'`.

You can use variables with $ like `'$example'`.

Each function requires name parenthesis and comma separated arguments e.g. `'min(PI, $example)'`.

You can combine as many as you want, e.g. `'min(PI, 10 + $example)'`.

You can do pretty complex infix, e.g. `'atan2($mouseY, $mouseX) - HALF_PI - HALF_PI / 2'`.

Constants

- true - boolean true value, equal to 1.0
- false - boolean false value, equal to 0.0
- PI - number equal to 3.14159265358979323846
- HALF_PI - number equal to 1.57079632679
- TWO_PI - number equal to 6.28318530718
- E - number equal to 2.7182818284590452354

Operations

- cond ? a : b = TERNARY, if cond then a, else b
- -a = NEGATE
- a + b = SUM
- a - b = SUB
- a * b = MUL
- a / b = DIV
- a % b = MOD
- a ** b = POW
- a & b = BIT AND
- a | b = BIT OR
- a ^ b = BIT/BOOL XOR
- ~a = BIT NOT
- !a = BOOL NOT
- a << b = SHIFT LEFT
- a >> b = SHIFT RIGHT

- a == b = EQUALS
- a != b = NOT EQUALS
- a > b = GREATER THAN
- a < b = LESS THAN
- a >= b = GREATER OR EQUAL THAN
- a <= b = LESS OR EQUAL THAN

Functions

- random()
- time()
- roundTime()
- min(a, b)
- max(a, b)
- pow(a, b)
- abs(a)
- sin(a)
- cos(a)
- tan(a)
- atan(a)
- atan2(y, x)
- deg(a)
- rad(a)
- log(a)
- log10(a)
- log1p(a)
- sqrt(a)
- sq(a)
- floor(a)
- ceil(a)
- if(statement, trueUnit, falseUnit)

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