

# Default operator list

These are all the default tags and math operators you can use in COWTCHOX , without linking anything.

## Tags

**<cowtchoox>**

```
<!cowtchoox />
```

The cowtchoox logo.

**<pagebreak>**

```
<!pagebreak />
```

A page break. The next thing on the document will be placed on the next page.

**<page-number>**

```
<!page-number />
```

Will be replaced by the page number

**<evaluate>**

```
<!evaluate > </evaluate>
```

Will be replaced by the result of the provided js expression (useful to display the current date)

**<figure>**

```
<!figure :caption=""> </figure>
```

A figure with a caption

**<cowtable>**

```
<!cowtable :caption=""> </cowtable>
```

A table with a caption

**<last-tag-value>**

```
<!last-tag-value :name=""/>
```

Will be replaced by the inner content of the last encountered tag with hat name.

## <system>

```
<!system > </system>
```

A system, with a big opening brace. Make lines with && and align with &.

## <eq>

```
<!eq :name=""> </eq>
```

Displays a named equation (should be used inside math)

**name** : The name of the equation, will be put in the right

## Math operators

### sqrt

```
?sqrt{under}
```

$$\sqrt{under}$$

Square root.

**under** : the thing in the square root

### x

```
?x
```

$$\times$$

Product. (like `\times` in latex) (U+00D7)

**frac** Infix alias `/`

```
?frac{up}{down}
```

$$\frac{up}{down}$$

Horizontal fraction.

**up** : the thing over the bar

**down** : the thing under the bar

**normalfont** Alias `|`

```
?normalfont{inner}
```

inner

Makes inner not use math font.

**txt**

?txt{inner}

inner

Same as normalfont, but with additionnal margins.

**exponent**    Infix alias    ^

?exponent{before}{inner}

*before*<sup>inner</sup>

Exponent.

**subscript**    Infix alias    \_

?subscript{before}{inner}

*before*<sub>inner</sub>

Subscript.

**underset**    Infix alias    --

?underset{middle}{down}

*middle*  
*down*

Put down under middle.

**overset**    Infix alias    ^^

?overset{middle}{up}

<sup>up</sup>  
*middle*

Put up over middle.

**comma** Alias **,**

?comma

,

Properly spaced comma.

**equal** Alias **=**

?equal

=

Properly spaced equal.

**minus** Alias **-**

?minus

-

A minus sign. (U+2013)

**plus** Alias **+**

?plus

+

A plus sign.

**forall**

?forall

∀

For all. (U+2200)

**exists**

?exists

∃

There exists. (U+2203)

4

**belongsto**   Alias   €

?belongsto

€

Belongs to. (U+2208)

**inf**

?inf

∞

Infinity. (U+221E)

**rightarrow**   Alias   ->

?rightarrow

→

Right arrow.

**leftarrow**   Alias   <-

?leftarrow

←

Left arrow. (U+2190)

**longrightarrow**   Alias   -->

?longrightarrow

→

Long right arrow.

**longleftarrow**   Alias   <--

?longleftarrow

←

Long left arrow.

**rightdblarrow** Alias `=>`

?rightdblarrow

→

Right double arrow.

**leftdblarrow** Alias `<=`

?leftdblarrow

←

Left double arrow.

**longrightdblarrow** Alias `==>`

?longrightdblarrow

⇒

Long right double arrow.

**longleftdblarrow** Alias `<==`

?longleftdblarrow

⇐

Long left double arrow.

**longleftrightrightarrow** Alias `<-->`

?longleftrightrightarrow

↔

Long left right arrow.

**leftrighdblarrow** Alias `<=>`

?leftrighdblarrow

$\Leftrightarrow$

Left right double arrow.

**longlefttrightdoublearrow** Alias **<==>**

`?longlefttrightdoublearrow`

$\Longleftrightarrow$

Long left right double arrow.

**un**

`?un{inner}`

$\underline{inner}$

Underlines argument.

**simeq** Alias **\simeq**

`?simeq`

$\approx$

Almost equal. (U+2243)

**noteq** Alias **\neq**

`?noteq`

$\neq$

Not equal. (U+2260)

**equiv** Alias **\sim**

`?equiv`

$\sim$

Equivalent / tilde operator. (U+223C)

**less** Alias <

?less

<

Less than.

**greater** Alias >

?greater

>

Greater than.

**leq** Alias ≤

?leq

≤

Less than or equal. (U+2264)

**geq** Alias ≥

?geq

≥

Greater than. (U+2265)

**mless** Alias <<

?mless

<<

Much less than. (U+226A)

**mgreater** Alias >>

?mgreater

>>



Much greater than. (U+226B)

**abs**

`?abs{inner}`

$$|inner|$$

Absolute value

**v**

`?v{inner}`

$$\overrightarrow{inner}$$

Put an arrow over the argument, like a vector.

**and**

`?and`

$$\wedge$$

Logical and, or GCD, or cross product (U+2227)

**or**

`?or`

$$\vee$$

Logical or, or LCM (U+2228)

**vert-flex**

`?vert-flex{inner}`

$$inner$$

Creates a vertical flex display. All contained HTML tags will be listed vertically, and horizontally centered

**overdot** Alias `^.`

`?overdot{inner}`

$$\dot{\phantom{x}}$$

$\dot{inner}$

Put a dot over argument.

**overddot** Alias  $\overset{..}{}$

`?overddot{inner}`

$\ddot{inner}$

Put two dots over argument.

**overdddots** Alias  $\overset{...}{}$

`?overdddots{inner}`

$\overset{...}{inner}$

Put two dots over argument.

**space**

`?space`

A small inline space

**deriv**

`?deriv{up}{down}`

$\frac{d\textit{up}}{d\textit{down}}$

Derivative (fraction notation)

**nderiv**

`?nderiv{up}{down}{pow}`

$\frac{d^{\textit{pow}}\textit{up}}{d\textit{down}^{\textit{pow}}}$

Nth derivative (fraction notation)

**cos**

?cos

cos

Cosine function

**sin**

?sin{inner}

$\sin inner$

Sine function

**eqname**

?eqname{inner}

$(inner)$

Show the name of an equation

**int**

?int{down}{up}{inner}

$\int_{down}^{up} inner$

Integral

**down** : the thing at the bottom of the integral

**up** : the thing at the top of the integral

**inner** : the content inside the integral