# Default operator list

These are all the default tags and math operators you can use in CO$^{W}$TCH$_{O}$OX , 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. The safest way of adding JS to the page, as it will run AFTER the elements are placed on the page. Very useful to show the current date, copy an element's contents... Notes:
- Custom tag parameters can be included in JS code, because it is considered as text by cowtchoox, and colon tags will be replaced
- You can access the evaluate document element with `this`
- To do thing and replace the evaluate tag by nothing at the end, just put `""` on the last line

### `<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}
```

$$\text{inner}$$

Makes inner not use math font.

**`txt`**

```
?txt{inner}
```

$$\text{inner}$$

Same as normalfont, but with additionnal margins.

**`exponent`** Infix alias `^`

```
?exponent{before}{inner}
```

$$before^{inner}$$

Exponent.

**`subscript`** Infix alias `_`

```
?subscript{before}{inner}
```

$$before_{inner}$$

Subscript.

**`underset`** Infix alias `__`

```
?underset{middle}{down}
```

$$\underset{down}{middle}$$

Put down under middle.

**`overset`** Infix alias `^^`

```
?overset{middle}{up}
```

$$\overset{up}{middle}$$

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)

**`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.

**rightdoublearrow** Alias `=>`

```
?rightdoublearrow
```



Right double arrow.

**leftdoublearrow** Alias `<=`

```
?leftdoublearrow
```



Left double arrow.

**longrightdoublearrow** Alias `==>`

```
?longrightdoublearrow
```



Long right double arrow.

**longleftdoublearrow** Alias `<==`

```
?longleftdoublearrow
```



Long left double arrow.

**longleftrightarrow** Alias `<-->`

```
?longleftrightarrow
```



Long left right arrow.

**leftrightdoublearrow** Alias `<=>`

```
?leftrightdoublearrow
```

$$\Leftrightarrow$$

Left right double arrow.

**longleftrightdoublearrow** Alias `<==>`

```
?longleftrightdoublearrow
```

$$\Longleftrightarrow$$

Long left right double arrow.

**un**

```
?un{inner}
```

$$\underline{inner}$$

Underlines argument.

**simeq** Alias `~=`

```
?simeq
```

$$\simeq$$

Almost equal. (U+2243)

**noteq** Alias `!=`

```
?noteq
```

$$\neq$$

Not equal. (U+2260)

**equiv** Alias `~`

```
?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
```

$$\gg$$

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}
```

$$\dot{inner}$$

Put a dot over argument.

**overddot** Alias `^..`

```
?overddot{inner}
```

$$\ddot{inner}$$

Put two dots over argument.

**overdddot** Alias `^...`

```
?overdddot{inner}
```

$$\dddot{inner}$$

Put two dots over argument.

**space**

```
?space
```

A small inline space

**deriv**

```
?deriv{up}{down}
```

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

Derivative (fraction notation)

**nderiv**

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

$$\frac{\mathrm{d}^{\mathrm{pow}} up}{\mathrm{ddown}^{\mathrm{pow}}}$$

Nth derivative (fraction notation)

**`cos`**

```
?cos{inner}
```

$$\cos inner$$

Cosine function

**`acos`**

```
?acos{inner}
```

$$\mathrm{acos} inner$$

Acos function

**`sin`**

```
?sin{inner}
```

$$\sin inner$$

Sine function

**`asin`**

```
?asin{inner}
```

$$\mathrm{asin} inner$$

Asin function

**`tan`**

```
?tan{inner}
```

$$\tan inner$$

Tangent function

**`atan`**

```
?atan{inner}
```

$$\text{atan}inner$$

Atan 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

**`cal`** Alias `£`

```
?cal{inner}
```

$$\mathcal{inner}$$

Calligraphic math font

**`frak`**

```
?frak{inner}
```

$$\mathfrak{inner}$$

Fraktur math font

**bb** Alias `||`

```
?bb{inner}
```

$$\mathbb{inner}$$

Blackboard bold math font

**pm**

```
?pm
```

$$\pm$$

Plus or minus (U+00B1)