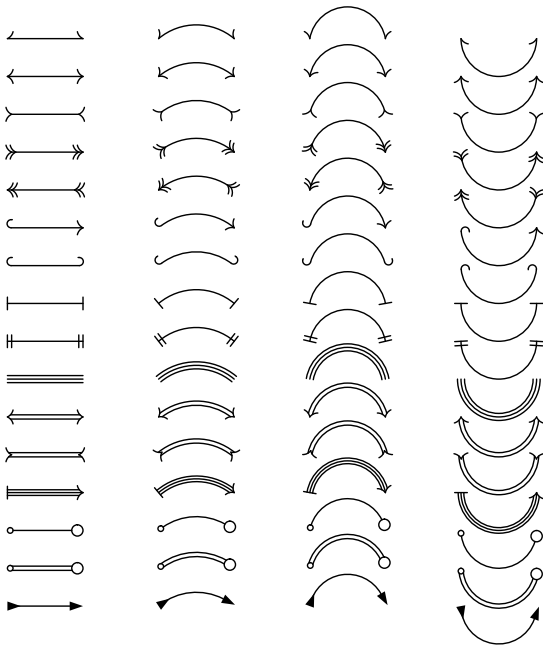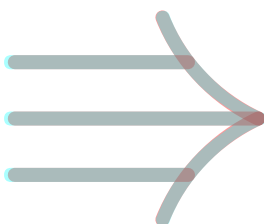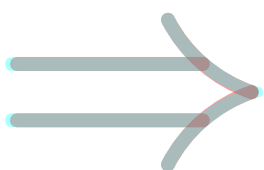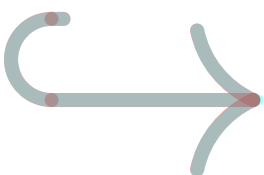# Arrow heads

Compare to symbols $\rightarrow$, $\twoheadrightarrow$, $\hookrightarrow$, $\mapsto$

Matching math arrows

Red is our output; cyan is reference symbol in default math font.

$A \to B, A \longrightarrow B$

$A \Rightarrow B, A \Longrightarrow B$

$A \Rrightarrow B, A \Longrightarrow B$

Double and triple lines

Diagram $A \xrightarrow{f} B$ and equation $A \to B$.

Diagram $A \xRightarrow{f} B$ and equation $A \Rightarrow B$.

Diagram $A \xRightarrow{f} B$ and equation $A \Rightarrow B$.

Arrow head shorthands

`->` $= \longrightarrow$

`<-` $= \longleftarrow$

`<->` $= \longleftrightarrow$

`<=>` $= \Longleftrightarrow$

`<==>` $= \Longleftrightarrow$

`|->` $= \longmapsto$

`|=>` $= \Longmapsto$

`>->` $= \rightarrowtail$

`->>` $= \twoheadrightarrow$

`hook->` $= \hookrightarrow$

`hook'--hook` $= \text{⌐-----⌐}$

`|=|` $=$ ⊨========⊨

`/--\` $= \text{⟋-----⟍}$

`\=\` $=$ ⟍========

`x-X` $= \times\!\!\longrightarrow\!\!\times$

`>>-<<` $= \ggg\!\!\longrightarrow\!\!\lll$

`harpoon-harpoon'` $= \text{⟋-------⟍}$

`harpoon'-<<` $= \text{⟍-------⟨⟨}$

`<--hook'` $= \text{⟨-----⌐}$

`|..|` $= \vdash\cdots\cdots\dashv$

`hooks--hooks` $= \text{ε-----Ɜ}$

`o-0` $= \circ\!\!\longrightarrow\!\!\circ$

`*-@` $= \bullet\!\!\longrightarrow\!\!\bullet$

`o==0` $= \circ\!\!\Longrightarrow\!\!\circ$

`||->>` $= \mapsto\!\!\longrightarrow\!\!\twoheadrightarrow$

`<|-|>` $= \blacktriangleleft\!\!\longrightarrow\!\!\blacktriangleright$

`|>-<|` $= \blacktriangleright\!\!\longrightarrow\!\!\blacktriangleleft$

Connectors

$$
\begin{CD}
X @>>> Y \\
@VVV \quad \nearrow \\
Z
\end{CD}
$$

with self-loop on X, map f from Z to Y

Arc connectors

from $\xrightarrow{\text{20deg}}$ to

0deg

−50deg
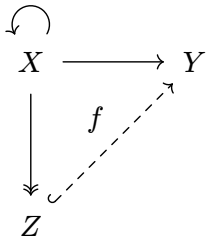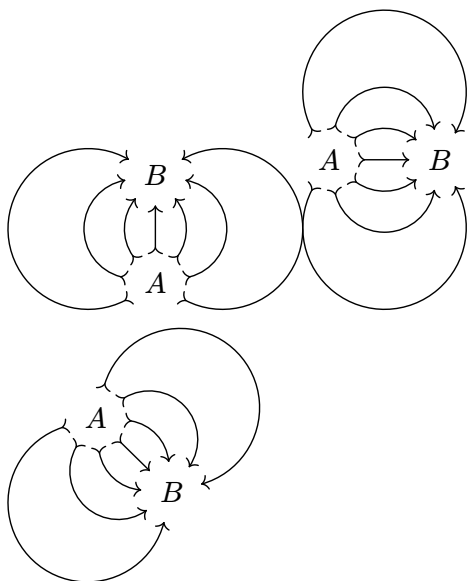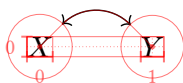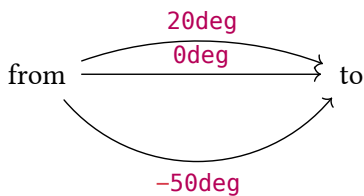
Defocus
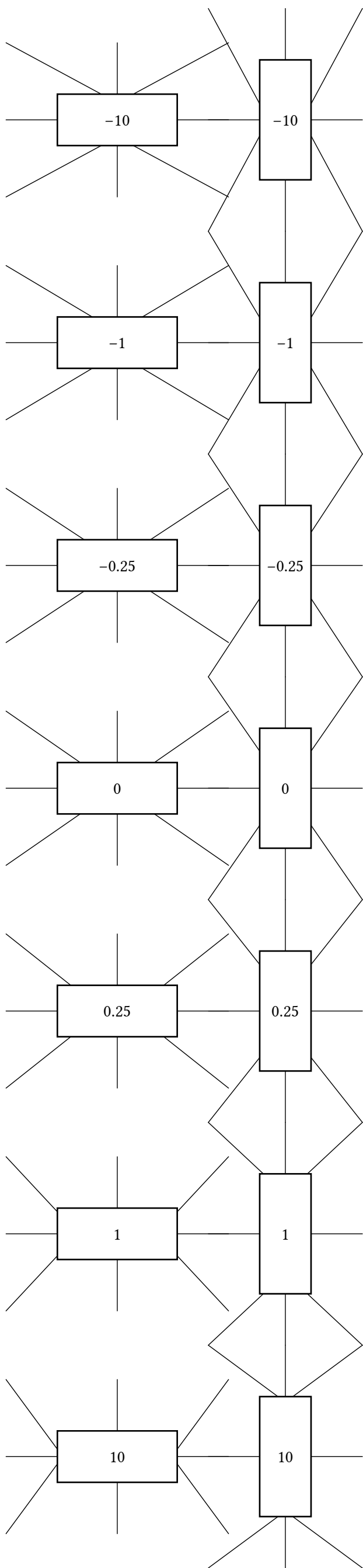
Label placement

Default placement above the line.
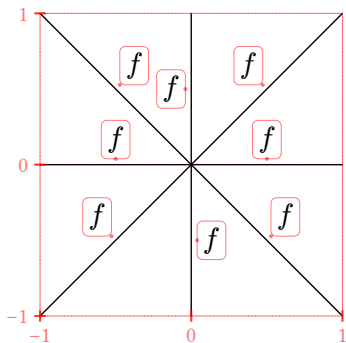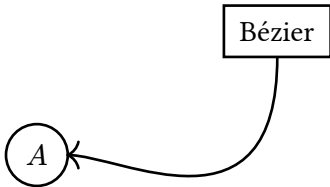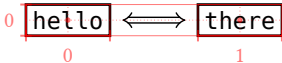
Crossing connectors
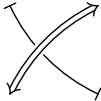
edge() argument shorthands
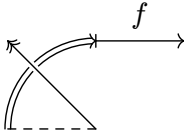
Diagram-level options

CeTZ integration

Bézier

A
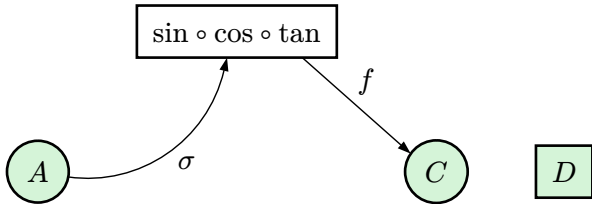
Node bounds

Corner edges

(−1, 1)   *f*   (1, 1)

f

(−1, −1)   left   (1, −1)

f

(−1, 1)   *f*   (1, 1)

f

(−1, −1)   right   (1, −1)

f
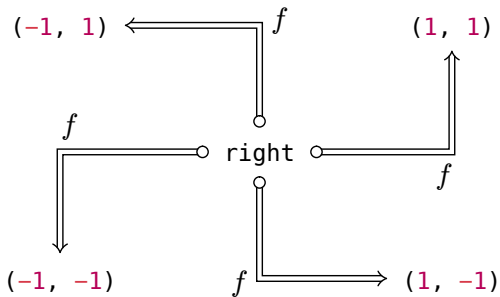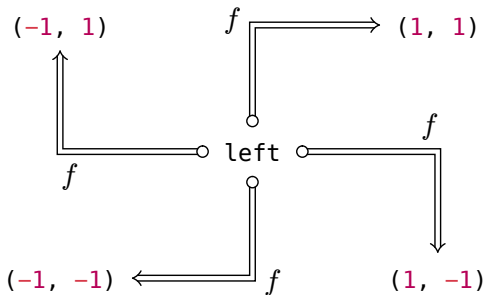
Double node strokes
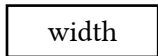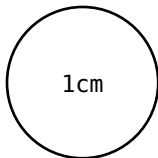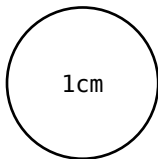

outer | inner | middle
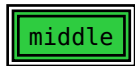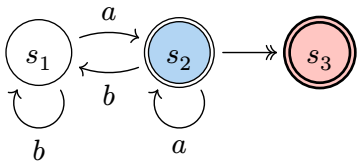
Relative and absolute extrusion lengths

outer | inner
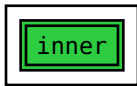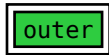
Custom node sizes

Make sure provided dimensions are exact, not affected by node `inset`.

1cm

1cm

width   height   both

Example