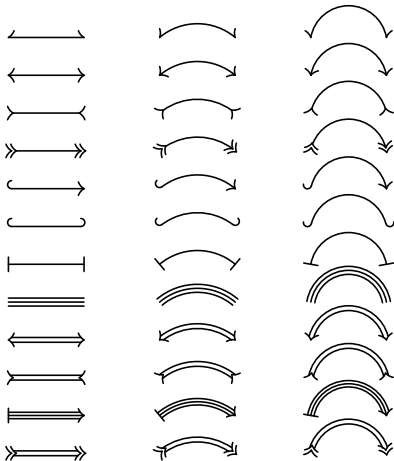# Arrow heads

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

Arrow head shorthands

`->` $= \longrightarrow$

`<-` $= \longleftarrow$

`<->` $= \longleftrightarrow$

`<=>` $= \Longleftrightarrow$

`|->` $= \longmapsto$

`|=>` $= \Longmapsto$

`>->` $= \rightarrowtail$

`->>` $= \twoheadrightarrow$

`hook->` $= \lhook\joinrel\longrightarrow$

`hook'--hook` $= \multimap$

`|=|` $= \Vvert$

`>>-<<` $= \gg\!\!-\!\!\ll$

`harpoon-harpoon'` $= \leftharpoondown\!\rightharpoondown$

`harpoon'-<<` $= \leftharpoonup\!\!\ll$

`<--hook'` $= \leftarrow\!-\!-\!-\!\rhook$

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

`hooks--hooks` $= \Lleftarrow\!-\!-\!-\!\Rrightarrow$

Connectors

$$
\begin{array}{ccc}
X & \longrightarrow & Y \\
\downarrow & \nearrow & \\
Z & &
\end{array}
$$

f

Arc connectors

from $\longrightarrow$ to

20deg

0deg

−50deg

X Y

A $\longrightarrow$ B

B

A

A

B
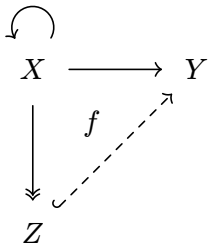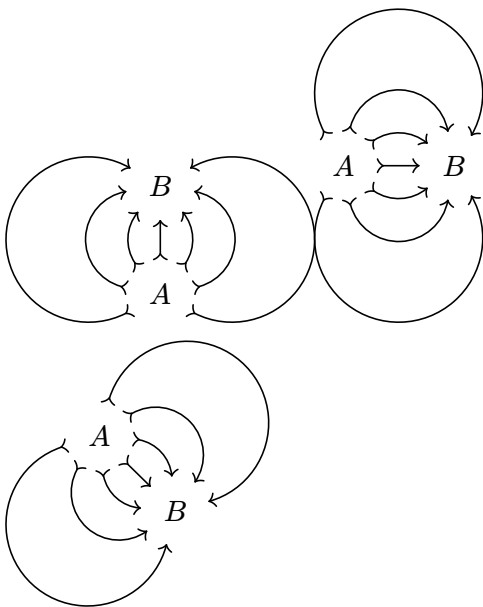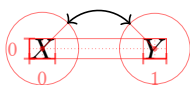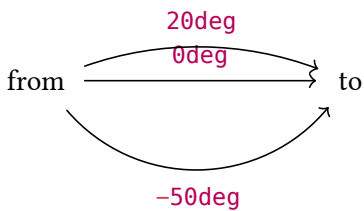
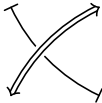**Defocus**
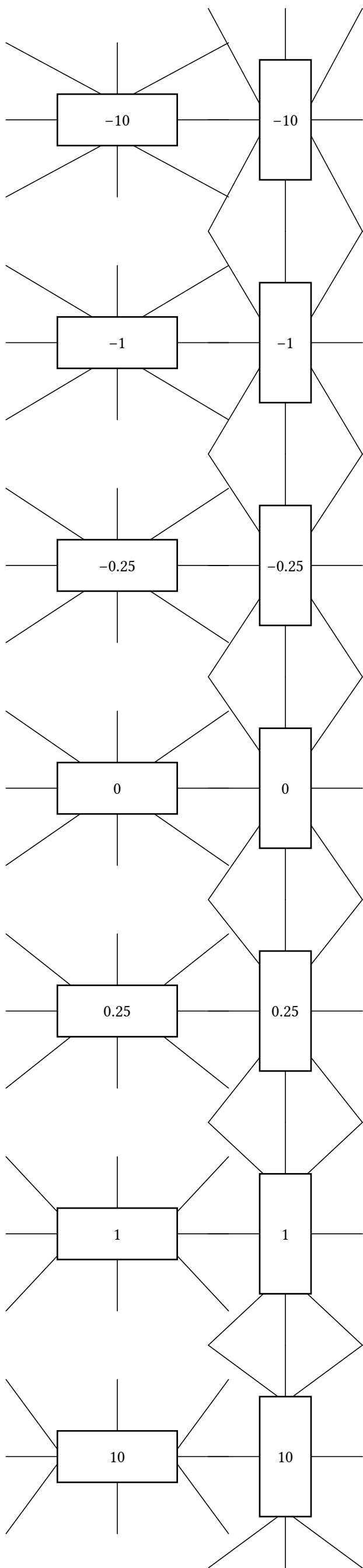
Label placement

Default placement above the line.
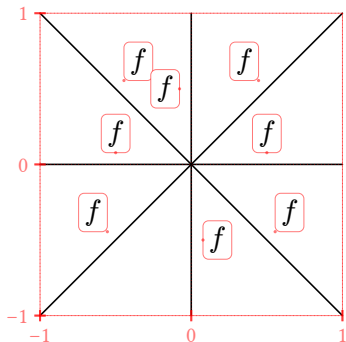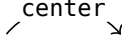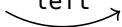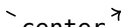
Crossing connectors

Coord callback

conn() argument shorthands

f

Diagram-level options
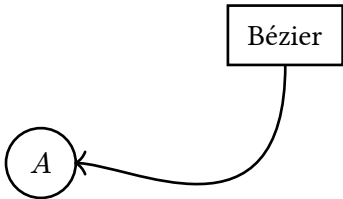
$$\sin \circ \cos \circ \tan$$

A C D

CeTZ integration

Bézier

A

Node bounds

0 | hello | ⟺ | there |
0   1