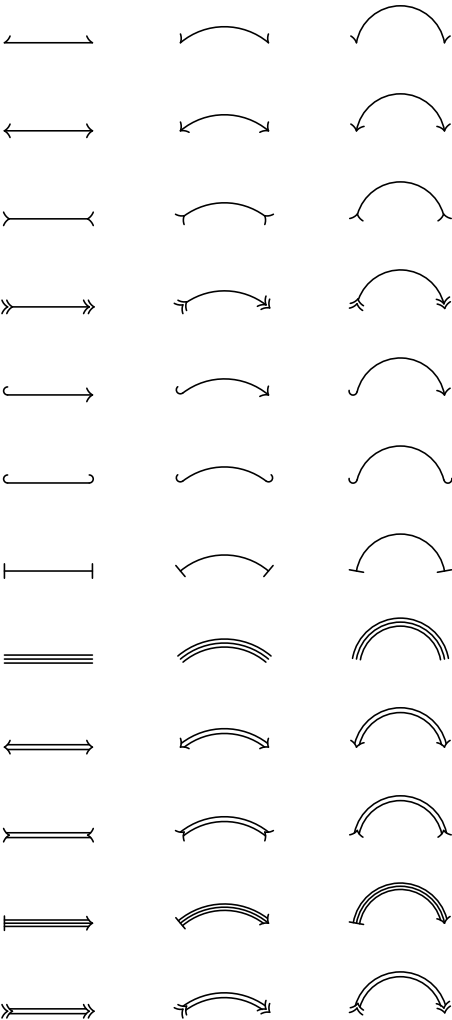# Arrow heads

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

Arrow head shorthands

`->` $= \longrightarrow$

`<-` $= \longleftarrow$

`<->` $= \longleftrightarrow$

`<=>` $= \Longleftrightarrow$

`|->` $= \longmapsto$

`|=>` $= \Longmapsto$

`>->` $= \rightarrowtail$

`->>` $= \twoheadrightarrow$

`hook->` $= \hookrightarrow$

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

`|=|` $= \Longleftrightarrow$

`>>-<<` $= $

`harpoon-harpoon'` $= $

`harpoon'-<<` $= $

`<--hook'` $= $

`|..|` $= $

`hooks--hooks` $= $

Connectors

$$
\begin{array}{ccc}
\circlearrowleft & & \\
X & \longrightarrow & Y \\
\Big\downarrow & \overset{f}{\nearrow} & \\
Z & &
\end{array}
$$

Arc connectors

from $\longrightarrow$ to

20deg

0deg

−50deg

X Y

0

0 1

B

A

$A \longmapsto B$

A

B
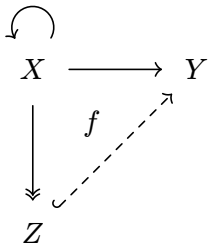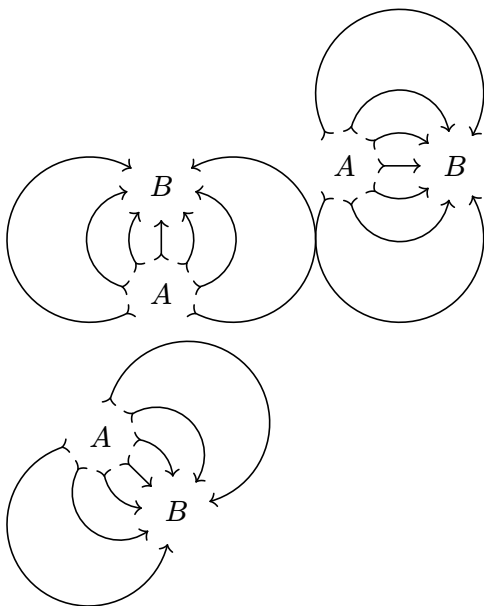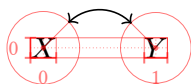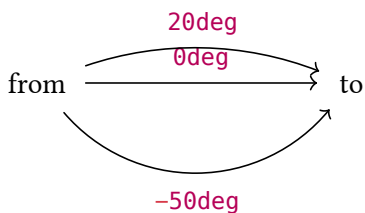
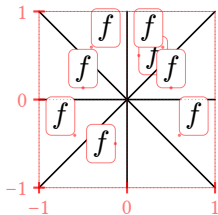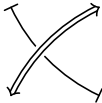**Defocus**
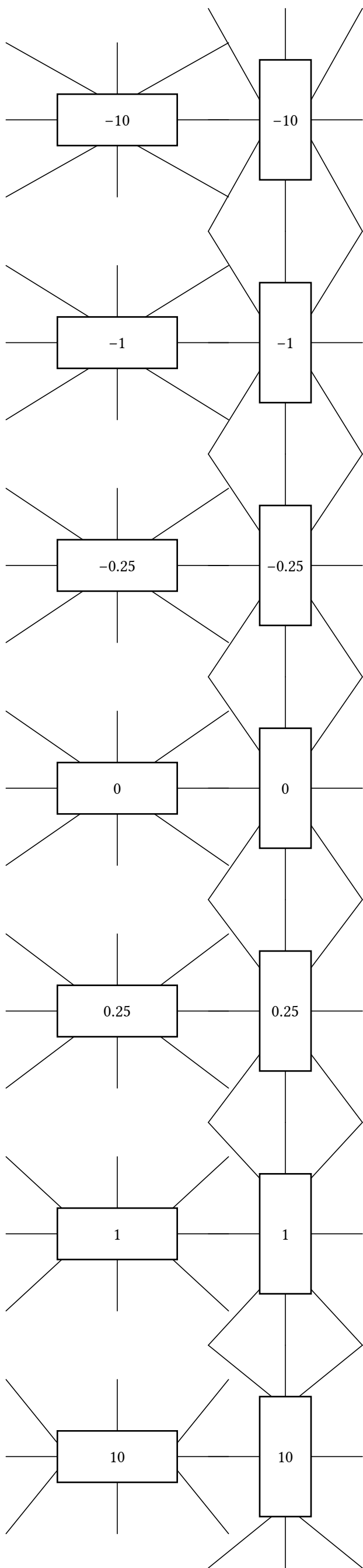
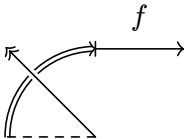# Default label placement

Prefer placing label 'above' the line.

Crossing connectors

Coord callback

hi

conn() argument shorthands

f

Layout

$$\sin B + \log$$

A C D