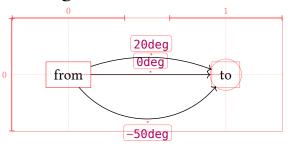
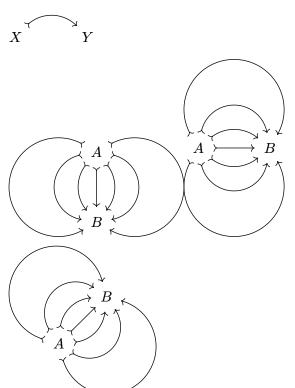
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Arc edges

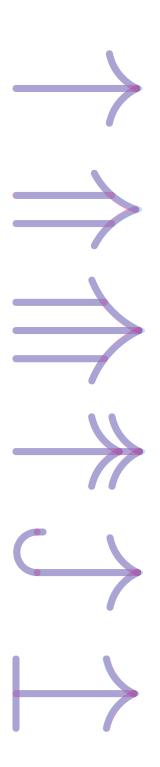




Matching math arrows

Compare to \rightarrow , \Rightarrow , \Rightarrow , \rightarrow , \hookrightarrow , \mapsto .

Our output versus reference symbol in default math font.



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 $A \Rightarrow B$

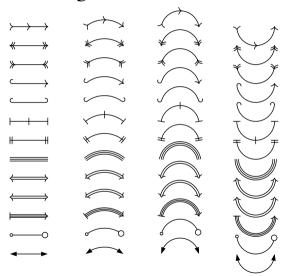
Diagram $A \Longrightarrow^f B$ and equation $A \Rightarrow B$.

Arrow head shorthands

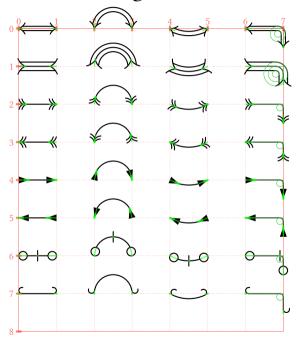
Symbol arrow aliases

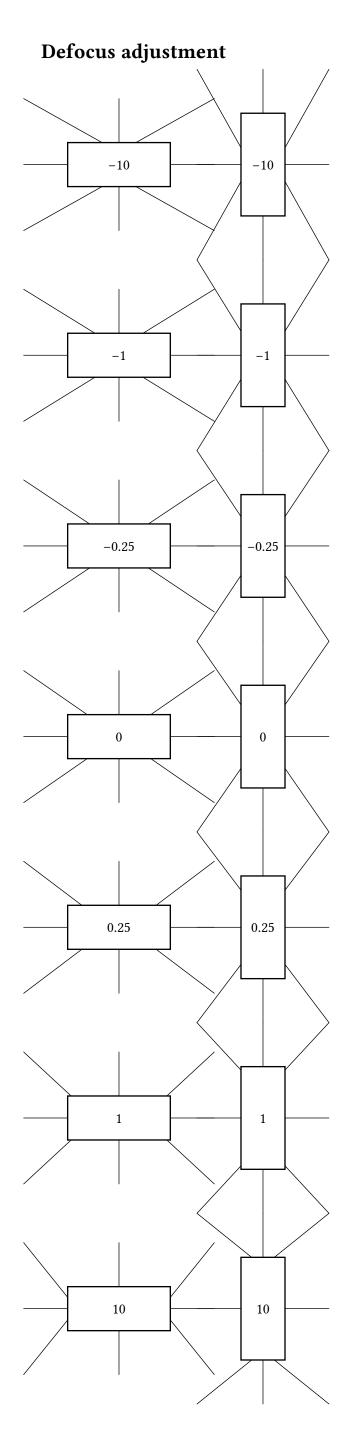
| | İ | i | i |
|-----------------------|-------------------|---------|--|
| Math | Unicode | Mark | Diagram |
| \rightarrow | \rightarrow | -> | \longrightarrow |
| \longrightarrow | ? | -> | \longrightarrow |
| \leftarrow | ← | <- | |
| \leftrightarrow | \leftrightarrow | <-> | \longleftrightarrow |
| \longleftrightarrow | ? | <-> | \longleftrightarrow |
| → | ? | ->> | ************************************* |
| « | ? | <<- | * |
| \rightarrow | ? | >-> | \longrightarrow |
| \leftarrow | ? | <-< | ← |
| \Rightarrow | \Rightarrow | => | \Longrightarrow |
| \Rightarrow | ? | => | \Longrightarrow |
| \leftarrow | ? | <= | |
| \Leftrightarrow | \Leftrightarrow | <=> | \iff |
| \Leftrightarrow | ? | <=> | \longleftrightarrow |
| \mapsto | \mapsto | -> | \longmapsto |
| \Rightarrow | ? | => | \longmapsto |
| ^> | ? | none! | none! |
| ₩ | ? | none! | none! |
| \hookrightarrow | | hook-> | \hookrightarrow |
| \leftarrow | | <-hook' | |

Bending arrows

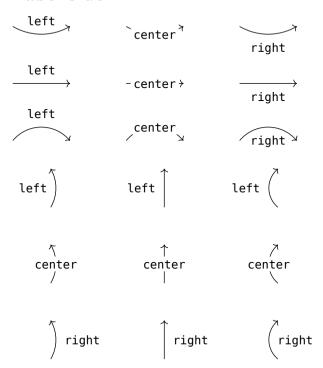


Fine mark angle corrections



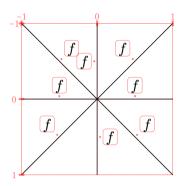


Label side

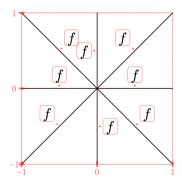


Automatic label placement

Default placement above the line.



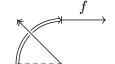
Reversed *y*-axis:



Crossing connectors



edge() argument shorthands

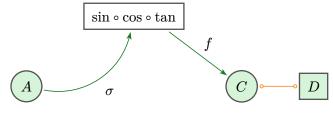


edge() stroke

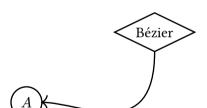


(none)

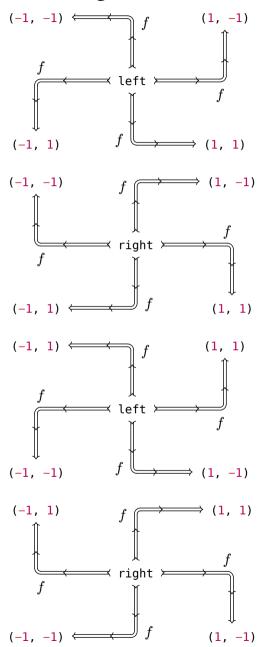
Diagram-level options



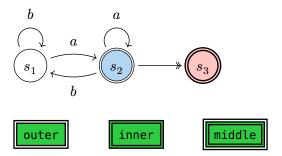
CeTZ integration TODO!



Corner edges



Double node strokes

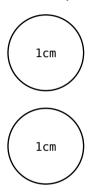


Relative and absolute extrusion lengths



Custom node sizes

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



width

height

b<mark>ot</mark>h

Node inset and outset

What 5mm inset should look like:



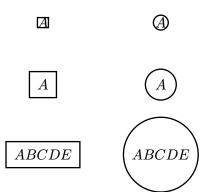
A diagram node with 5mm inset:



A diagram node with 5mm outset:

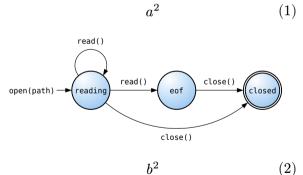


Circular insets:

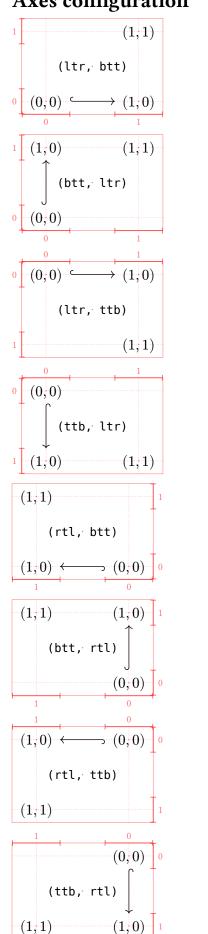


Example

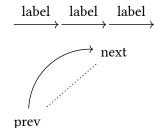
Make sure node or edge labels don't pick up equation numbers!



Axes configuration



Implicit from and to points



Edge positional arguments

Explicit named arguments versus implicit positional arguments.

Each row should be the same thing repeated.

$$A \xrightarrow{\pi} B A \xrightarrow{\pi} B A \xrightarrow{\pi} B A \xrightarrow{\pi} B$$

$$A \xrightarrow{\tau} B A \xrightarrow{\tau} B A \xrightarrow{\tau} B A \xrightarrow{\tau} B$$

$$A \xrightarrow{\tau} B A \xrightarrow{\tau} B A \xrightarrow{\tau} B A \xrightarrow{\tau} B$$

$$A \xrightarrow{+} B A \xrightarrow{+} B A \xrightarrow{+} B$$

Math-mode diagrams

The following diagrams should be identical:

$$G \xrightarrow{f} \operatorname{im}(f)$$

$$\pi \downarrow \qquad \tilde{f} \qquad \tilde{f} \qquad \tilde{f}$$

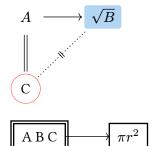
$$G/\ker(f)$$

$$G \xrightarrow{\tilde{f}} \operatorname{im}(f)$$

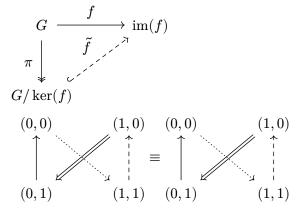
$$\pi \downarrow \qquad \tilde{f} \qquad \tilde{f} \qquad \tilde{f}$$

$$G/\ker(f)$$

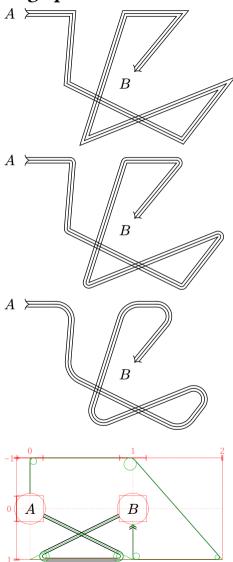
Nodes in math-mode



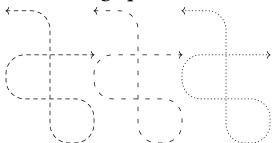
Relative node coordinates



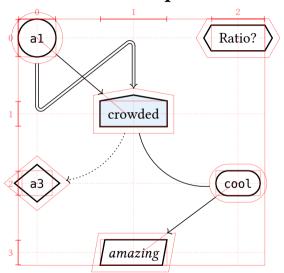
Edge paths



Dashed edge paths



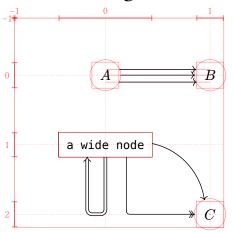
Custom node shapes



Intersection finding



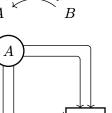
Off-center edges



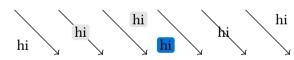
Edge shift







Label fill



Line decorations

