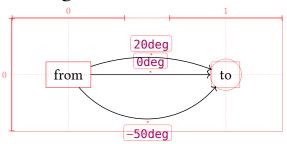
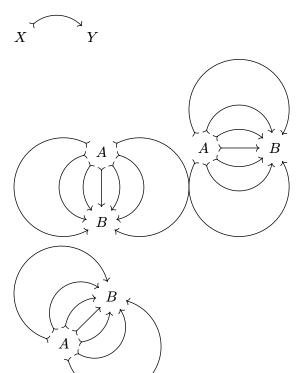
Contents

Arc edges 2	2
Matching math arrows	3
Double and triple lines4	1
Arrow head shorthands5	5
Symbol arrow aliases 6	5
Bending arrows	7
Fine mark angle corrections	3
Defocus adjustment9)
Label side 10)
Automatic label placement 11	
Crossing connectors12	2
edge() argument shorthands13	3
edge() stroke14	1
Diagram-level options15	5
CeTZ integration16	5
Corner edges17	7
Double node strokes 18	3
Custom node sizes19)
Node inset and outset20)
Example 21	1
Axes configuration22	2
Implicit from and to points23	3
Edge positional arguments24	1
Math-mode diagrams25	5
Nodes in math-mode26	5
Relative node coordinates27	
Edge paths28	3
Dashed edge paths29)
Custom node shapes30)
Intersection finding31	1
Off-center edges32	2
Edge shift33	3
Label fill	1
Line decorations	ī

Arc edges

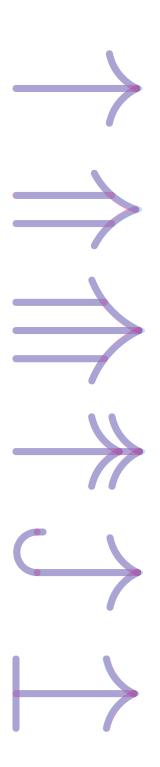




Matching math arrows

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 $A \Rightarrow B$

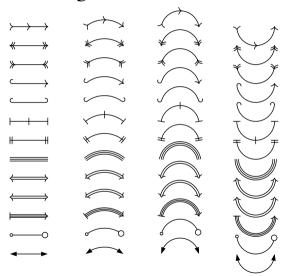
Diagram $A \Longrightarrow^f B$ and equation $A \Rightarrow B$.

Arrow head shorthands

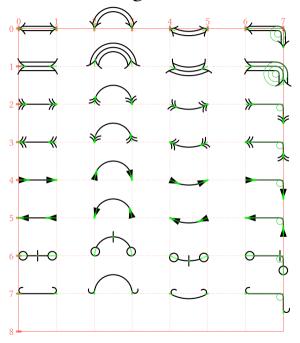
Symbol arrow aliases

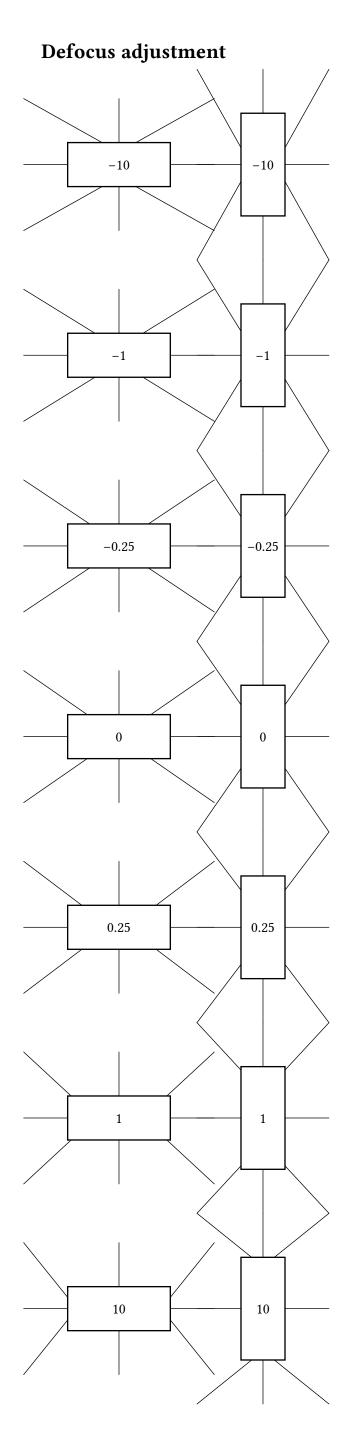
	İ	i	i
Math	Unicode	Mark	Diagram
\rightarrow	\rightarrow	->	\longrightarrow
\longrightarrow	?	->	\longrightarrow
\leftarrow	←	<-	
\leftrightarrow	\leftrightarrow	<->	\longleftrightarrow
\longleftrightarrow	?	<->	\longleftrightarrow
→	?	->>	*************************************
«	?	<<-	*
\rightarrow	?	>->	\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

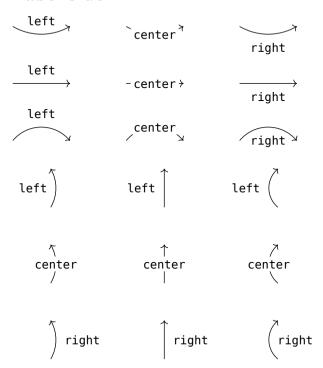


Fine mark angle corrections



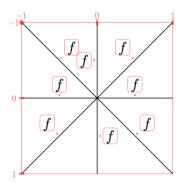


Label side

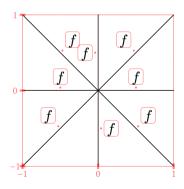


Automatic label placement

Default placement above the line.



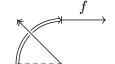
Reversed *y*-axis:



Crossing connectors



edge() argument shorthands

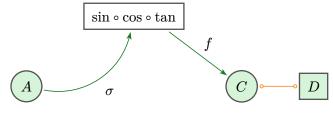


edge() stroke

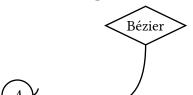


(none)

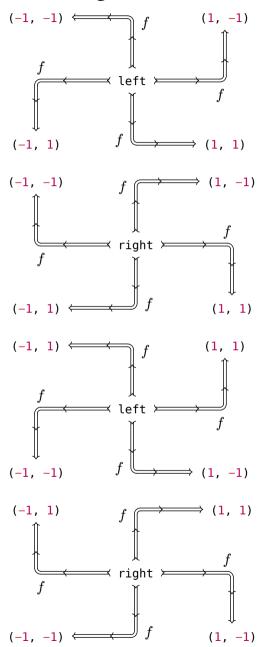
Diagram-level options



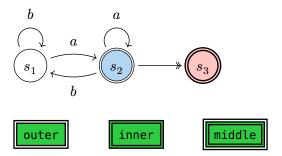
CeTZ integration



Corner edges



Double node strokes

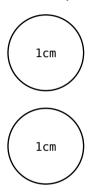


Relative and absolute extrusion lengths



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:



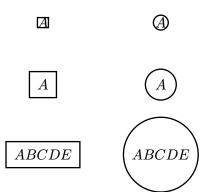
A diagram node with 5mm inset:



A diagram node with 5mm outset:

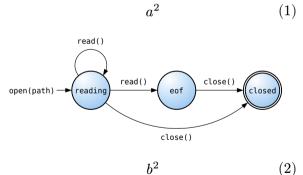


Circular insets:

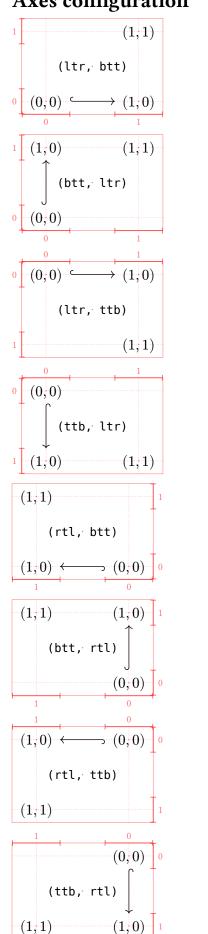


Example

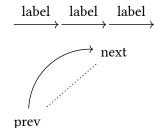
Make sure node or edge labels don't pick up equation numbers!



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:

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

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

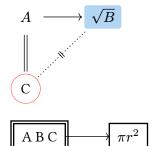
$$G/\ker(f)$$

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

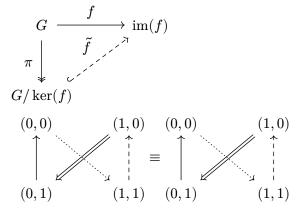
$$\pi \downarrow \qquad \tilde{f} \qquad \tilde{f} \qquad \tilde{f}$$

$$G/\ker(f)$$

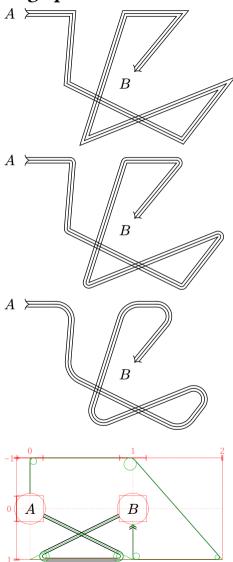
Nodes in math-mode



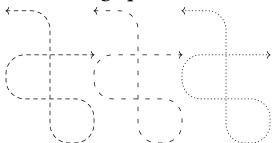
Relative node coordinates



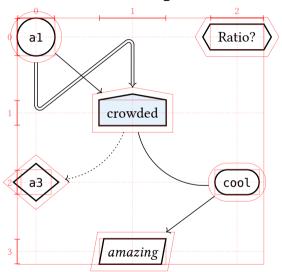
Edge paths



Dashed edge paths



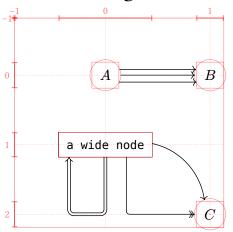
Custom node shapes



Intersection finding



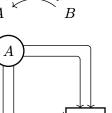
Off-center edges



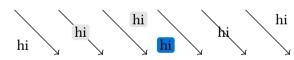
Edge shift







Label fill



Line decorations

 $A \leftrightarrow \sim \rightarrow B \leftrightarrow \sim \rightarrow C \leftrightarrow \sim \rightarrow$

