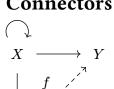
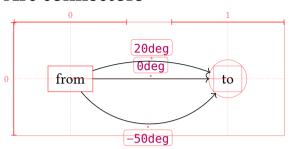
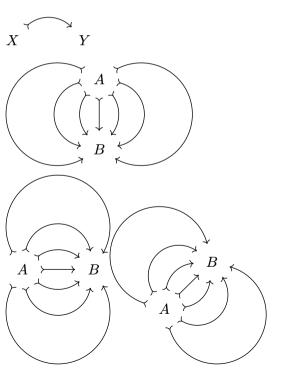
#### **Connectors**



#### **Arc connectors**

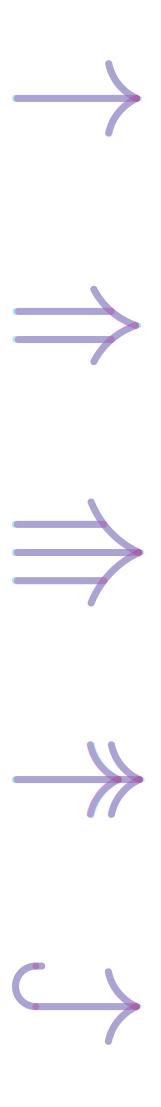


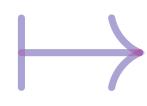


# Matching math arrows

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

Compare our output to the reference symbol in default math font.





#### Double and triple lines

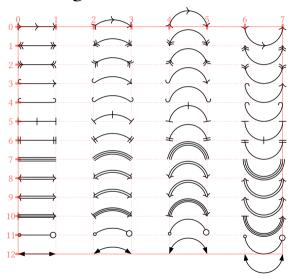
Diagram  $A \xrightarrow{f} B$  and equation  $A \to B$ .

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

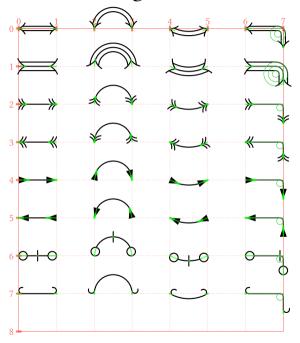
Diagram  $A \stackrel{f}{\Longrightarrow} B$  and equation  $A \Rightarrow B$ .

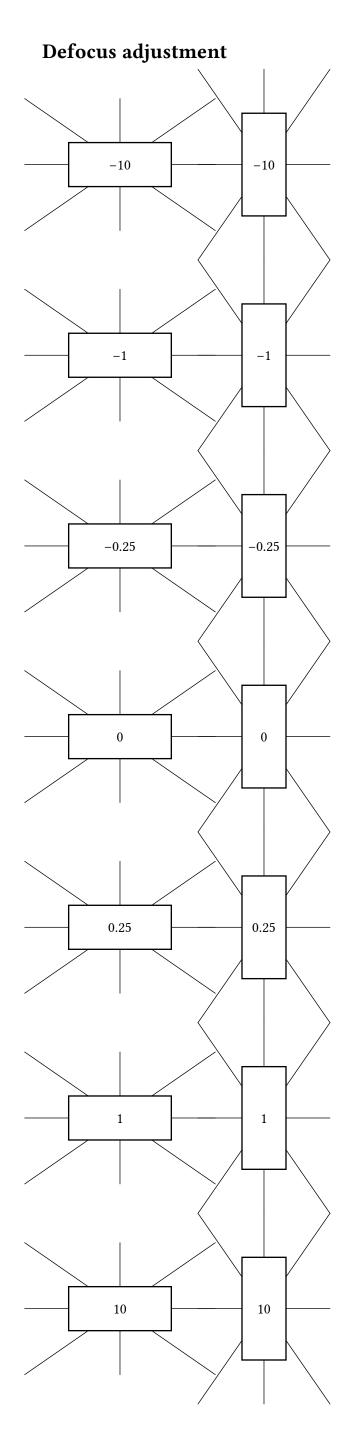
#### Arrow head shorthands

## Bending arrows

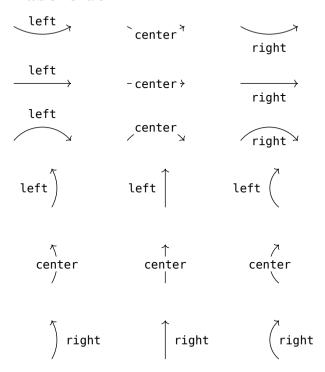


## Fine mark angle corrections



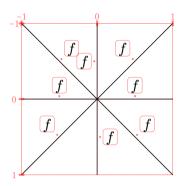


#### Label side

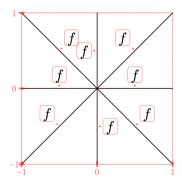


## Automatic label placement

Default placement above the line.



#### Reversed *y*-axis:



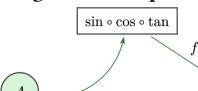
# **Crossing connectors**



#### edge() argument shorthands

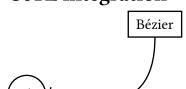


#### **Diagram-level options**

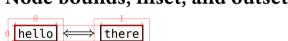




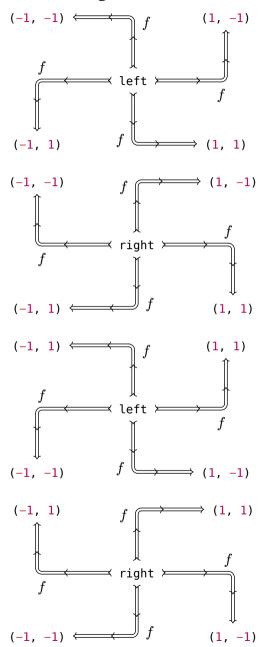
## **CeTZ** integration



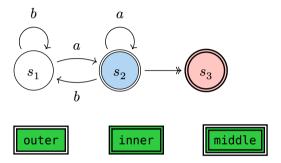
#### Node bounds, inset, and outset



#### Corner edges



#### Double node strokes



Relative and absolute extrusion lengths



#### Custom node sizes

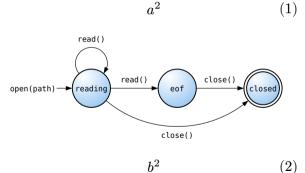
Make sure provided dimensions are exact, not affected by node inset.



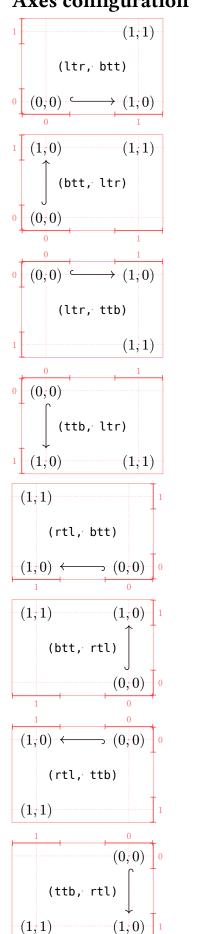


#### Example

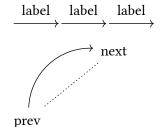
Make sure node or edge labels don't pick up equation numbers!



# 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.

# Symbol arrow aliases

Math	Unicode	Mark	Diagram
$\rightarrow$	$\rightarrow$	->	$\stackrel{-}{\longrightarrow}$
$\longrightarrow$	?	->	$\longrightarrow$
$\leftarrow$	<b>←</b>	<-	<del></del>
$\leftrightarrow$	$\leftrightarrow$	<->	$\longleftrightarrow$
$\longleftrightarrow$	?	<->	$\longleftrightarrow$
<b>→</b>	?	->>	
<b>«</b>	?	<<-	*
$\rightarrow$	?	>->	$\longrightarrow$
$\leftarrow$	?	<-<	$\leftarrow$
$\Rightarrow$	$\Rightarrow$	=>	$\Longrightarrow$
$\Rightarrow$	?	=>	$\Longrightarrow$
<b>(</b>	?	<=	<del></del>
$\Leftrightarrow$	$\Leftrightarrow$	<=>	$\longleftrightarrow$
$\iff$	?	<=>	$\longleftrightarrow$
$\mapsto$	$\mapsto$	->	$\longmapsto$
$\Rightarrow$	?	=>	$\Longrightarrow$
৵	?	none!	none!
₩	?	none!	none!
$\hookrightarrow$		hook->	$\hookrightarrow$
$\leftarrow$		<-hook'	← →

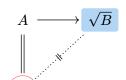
#### Math-mode diagrams

The following diagrams should be identical:

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

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

#### Nodes in math-mode



#### Relative node coordinates

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

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

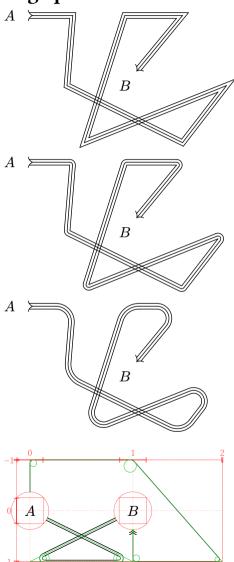
$$G/\ker(f)$$

$$(0,0) \qquad (1,0) \qquad (0,0) \qquad (1,0)$$

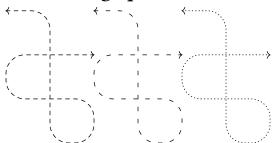
$$\uparrow \qquad \qquad \uparrow \qquad \qquad \downarrow$$

$$(0,1) \qquad (1,1) \qquad (0,1) \qquad (1,1)$$

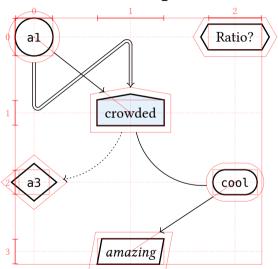
# Edge paths



## Dashed edge paths



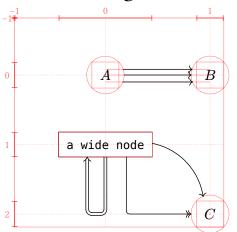
## Custom node shapes



#### **Intersection finding**



# Off-center edges

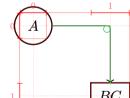


#### Edge shift TODO!



B





#### Label fill

