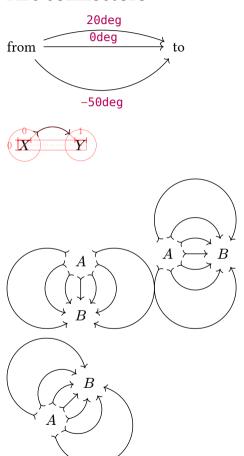
#### **Connectors**



#### **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

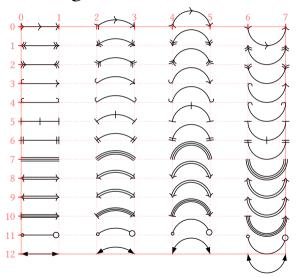
Diagram  $A \xrightarrow{f} B$  and equation  $A \to B$ .

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

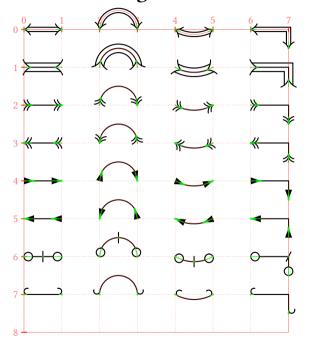
Diagram  $A \stackrel{f}{\Longrightarrow} B$  and equation  $A \Rightarrow B$ .

#### Arrow head shorthands

## Bending arrows



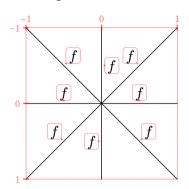
# Fine mark angle corrections



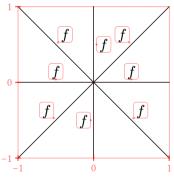


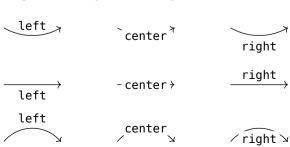
## Automatic label placement

Default placement above the line.



#### Reversed *y*-axis:





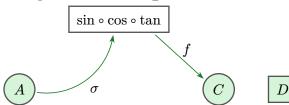
# **Crossing connectors**

 $\times$ 

## edge() argument shorthands



## **Diagram-level options**



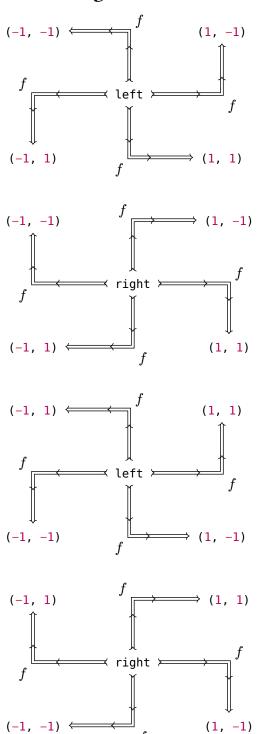
## **CeTZ** integration



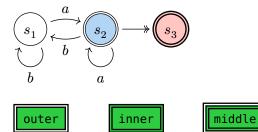
## Node bounds, inset, and outset

```
\begin{array}{c}
0 \\
0 \\
\text{hello} \iff \text{there}
\end{array}
```

#### Corner edges



#### Double node strokes

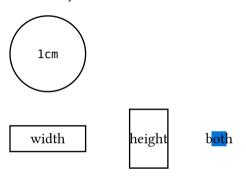


Relative and absolute extrusion lengths



#### Custom node sizes

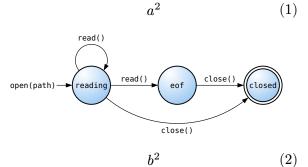
Make sure provided dimensions are exact, not affected by node inset.



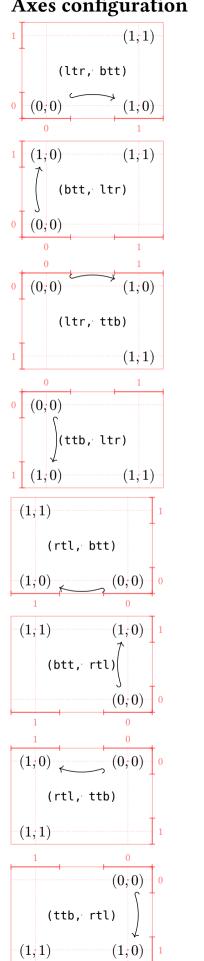


#### **Example**

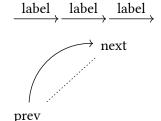
Make sure node or edge labels don't pick up equation numbers!



# 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
$\rightarrow$	$\rightarrow$	->	$\longrightarrow$
$\longrightarrow$	?	->	$\longrightarrow$
<b>←</b>	<b>←</b>	<-	<del></del>
$\leftrightarrow$	$\leftrightarrow$	<->	$\longleftrightarrow$
$\longleftrightarrow$	?	<->	$\longleftrightarrow$
<b>→</b>	?	->>	<b></b>
<del>«</del>	?	<<-	*
$\rightarrow$	?	>->	$\longrightarrow$
$\leftarrow$	?	<-<	<del></del>
$\Rightarrow$	$\Rightarrow$	=>	$\Longrightarrow$
$\Rightarrow$	?	=>	$\Longrightarrow$
$\leftarrow$	?	<=	<del></del>
$\Leftrightarrow$	$\Leftrightarrow$	<=>	$\longleftrightarrow$
$\Leftrightarrow$	?	<=>	$\longleftrightarrow$
$\mapsto$	$\rightarrow$	->	$\longmapsto$
⊭	?	=>	$\Longrightarrow$
^>	?	none!	none!
₩	?	none!	none!
$\hookrightarrow$		hook->	$\hookrightarrow$
$\leftarrow$		<-hook'	← →

#### Math-mode diagrams

The following diagrams should be identical:

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

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

$$G/\ker(f)$$

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

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

$$G/\ker(f)$$

#### Relative node coordinates

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

 $G/\ker(f)$ 

#### Nodes in math-mode

 $\begin{array}{c} A & \longrightarrow & \mathbf{B} \\ \parallel & & \end{array}$ 

# **Edge paths**

