

Hello Typst

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An introduction to Typst: <https://typst.app>

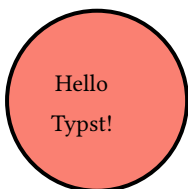
First Section

- item 1
- item 2

```
puts "Hello Tcl"
```

Hello Tcl

```
lappend auto_path ../modules
package require tsvg
tsvg set width 100
tsvg set height 100
# Tcl like syntax without hyphens
tsvg circle cx 50 cy 50 r 45 stroke black stroke-width 2 fill salmon
tsvg text x 29 y 45 Hello
tsvg text x 27 y 65 Typst!
tsvg write hello-typst.svg
### cleanup
tsvg set code ""
puts done
done
```



An example equation:

$E = mc^2$

$E = mc^2$

Tcl Lists to Tables

An example for a table given as a Tcl list:

```
```.tcl results=asis,echo=false}
set h [list A B C]
set d [list 1 2 3 4 5 6 7 8 9]
puts [list2tab $h $d]
```.
```

A	B	C
1	2	3
4	5	6

CSV Display

Since version 0.15.0 with Typst it is as well to embed CSV (Comma Separated Values) data into the documents and return the data as text. Here an example:

```
col1,col2,col3,col4
1,2,3,4
5,6,7,8
9,10,11,12
```

col1	col2	col3	col4
1	2	3	4
5	6	7	8
9	10	11	12

As with other code chunks you can as well hide the input by using `echo=false`. Here data from an other table:

col1	col2	col3	col4
11	12	13	14
15	16	17	18
19	20	21	22

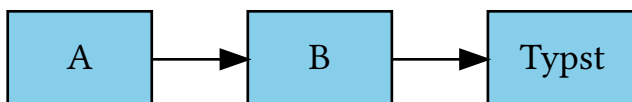
Shell Chunks

Here the code. Replace the single quote with a back tick before the other two back ticks.

```
```{.shell label=tdot2 cmd="dot -Tsvg %i -o%o" chunk.ext=dot ext=svg}
digraph G {
 rankdir="LR";
 node[style=filled,fillcolor=skyblue,shape=box];
 A -> B -> Typst
}
```
```

Here the output:

```
digraph G {
  rankdir="LR";
  node[style=filled,fillcolor=skyblue,shape=box];
  A -> B -> Typst
}
```

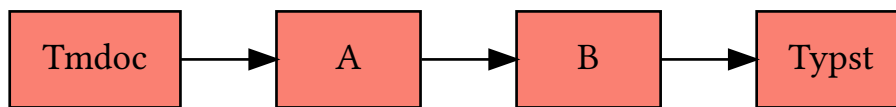


Using the option `echo=false` you can hide the input and only display the image:

```
```{.shell label=tdot3 cmd="dot -Tsvg %i -o%o" chunk.ext=dot ext=svg echo=false}
digraph G {
 rankdir="LR";
 node[style=filled,fillcolor=salmon,shape=box];
 Tmdoc -> A -> B -> Typst
}
```

```
}
...
```

Here the output:

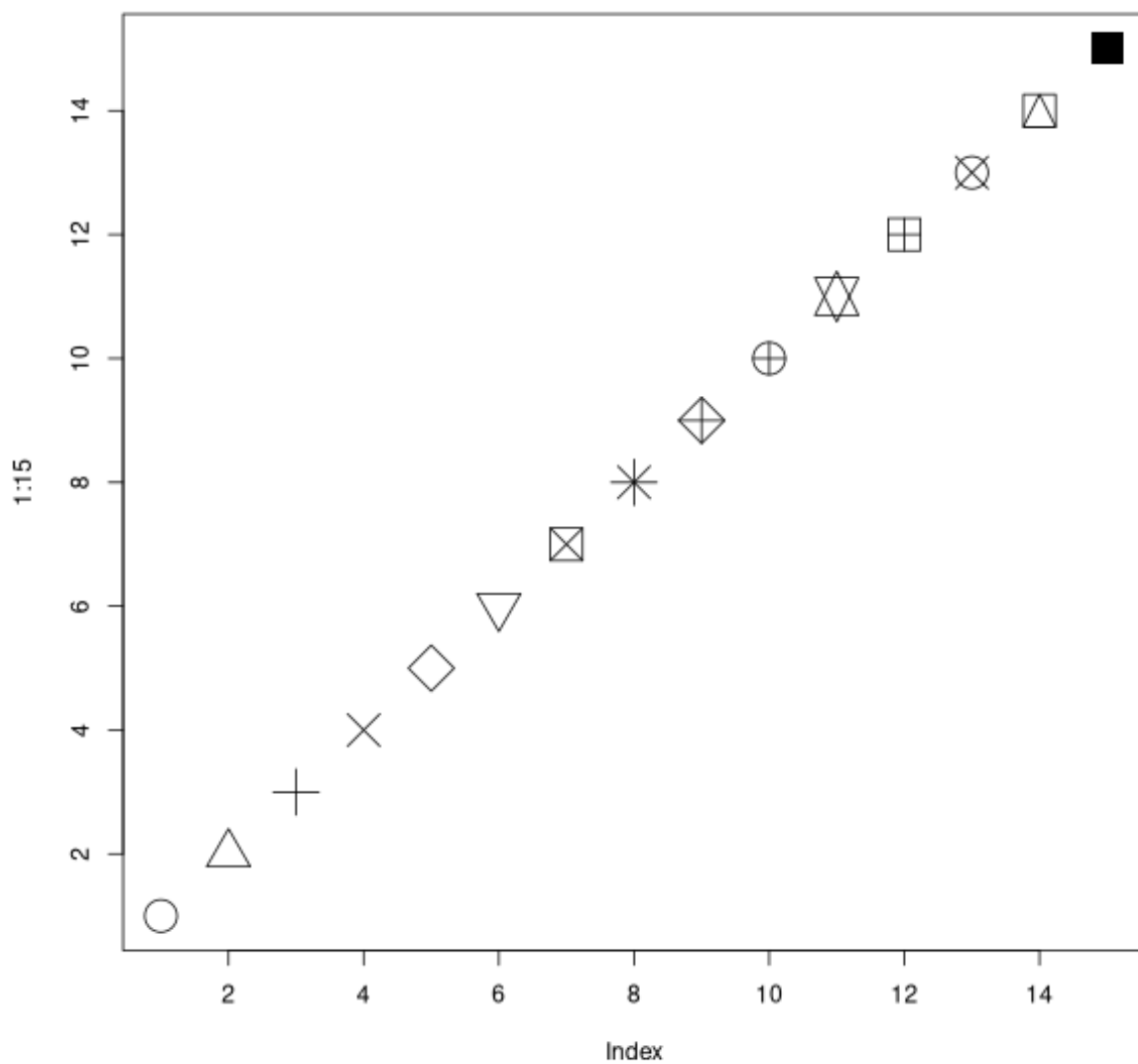


## R Examples

```
x=1
print("Hello R World!")

> x=1
> print("Hello R World!")
[1] "Hello R World!"

plot(1:15,pch=1:15,cex=3)
> plot(1:15,pch=1:15,cex=3)
```



The value of x is 1!

## Python Example

```
x=2
print(x)
x=x+1
import sys
print(sys.version)

>>> x=2
>>> print(x)
2
>>> x=x+1
>>> import sys
>>> print(sys.version)
3.13.5 (main, Jun 25 2025, 18:55:22) [GCC 14.2.0]
```

The value of Python's x is 3!

## Abbreviations

Typst uses it's own abbreviation system. We usually declare some variables and then within the text prefix them with a hash. Here an example:

```
#let abbrev = "Abbreviation"
```

To use the abbreviation we use a hash like this: An #abbrev is a short text symbol.

And here the output:

To use the abbreviation we use a hash like this: An Abbreviation is a short text symbol.

To use yaml based abbreviations which can be declared within yaml files like this:

```
MM: Max Musterman, University of Mustercity
```

And then in the text you place the abbreviations within curly braces like this:

```
This document was not written by {MM}.
```

The output is then the following:

This document was not written by Max Musterman, University of Mustercity.

To process the abbreviations you need to give the abbreviation file on the command line of tmdoc like this:

```
tmdoc input.ttyp output.typ --abbrev abbrev.yaml
typst compile output.typ
```