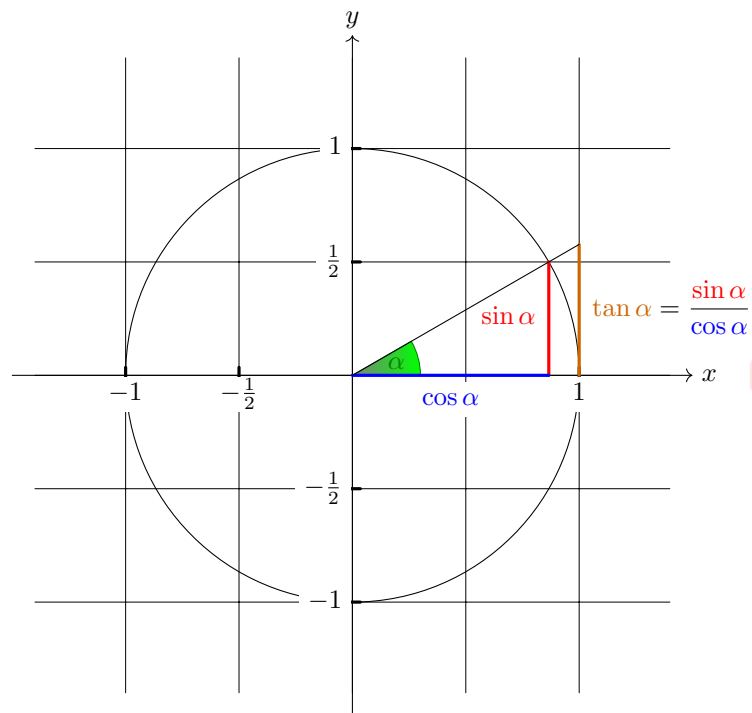


1 Karl's graph

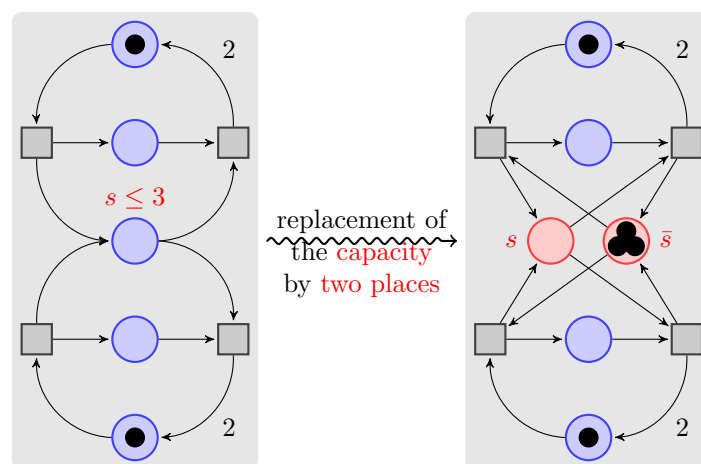


The **angle** α is 30° in the example ($\pi/6$ in radian). The **sine of** α which is the height of the red line is

$$\sin \alpha = 1/2.$$

By the theorem of Pythagoras,...

2 Petri Nets

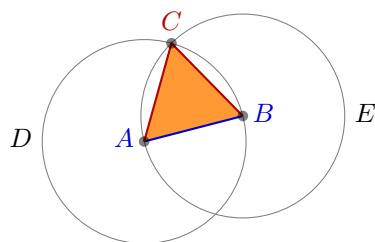


3 Book I, Proposition I

Proposition I

To construct an *equilateral triangle* on a given *finite straight line*.

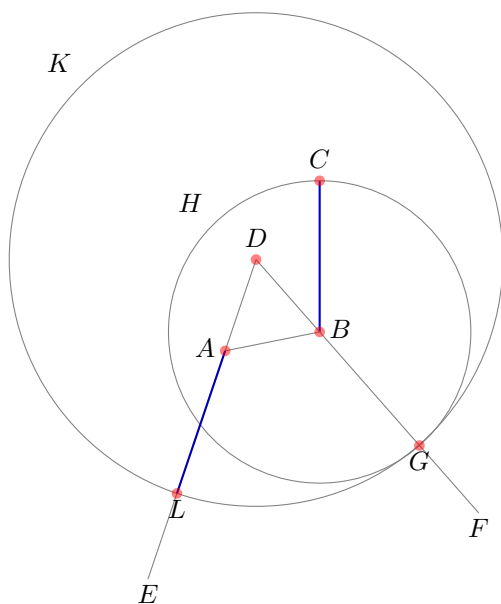
Let *AB* be the given *finite straight line*. ...



4 Book I, Proposition II

Proposition II

To place a *straight line* equal to a given straight line ...



5 Diagrams as Simple Graphs

unsigned integer

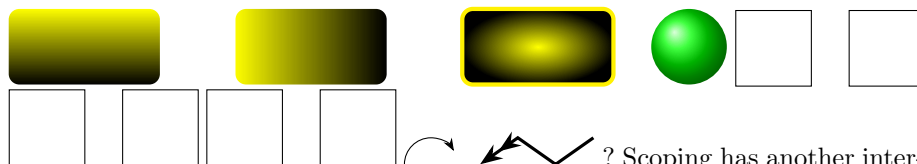


digit

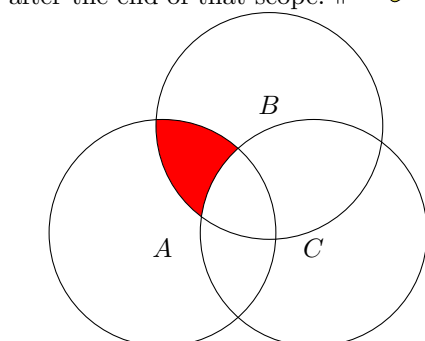


Curved Path Construction.





after the end of that scope.  $x = 1, x = 2, x = 3,$



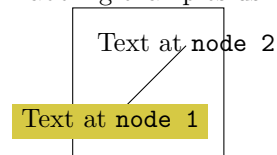
 We can also nest

loops to create interesting effects.

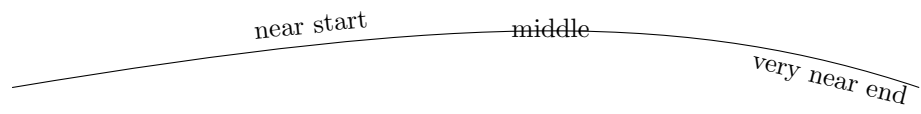
1,5	2,5	3,5	4,5	5,5
1,4	2,4	3,4	4,4	5,4
1,3	2,3	3,3	4,3	5,3
1,2	2,2	3,2	4,2	5,2
1,1	2,1	3,1	4,1	5,1

7,5	8,5	9,5	10,5	11,5	12,5
7,4	8,4	9,4	10,4	11,4	12,4
7,3	8,3	9,3	10,3	11,3	12,3
7,2	8,2	9,2	10,2	11,2	12,2
7,1	8,1	9,1	10,1	11,1	12,1

Labeling examples using TikZ.



You can also position labels on curves and, by adding the `sloped` option, have them rotated such that they match the line's slope.



Using pics to reuse a piece of code in a picture.

