

*relativesize* — Choices for sizes of objects

[Description](#)[Syntax](#)[Remarks and examples](#)[Also see](#)

## Description

A *relativesize* specifies a size relative to the graph (or subgraph) being drawn. Thus as the size of the graph changes, so does the size of the object.

## Syntax

<i>relativesize</i>	Description
#	specify size; size 100 = minimum of width and height of graph; # must be $\geq 0$ , depending on context
*#	specify size change via multiplication; *1 means no change, *2 twice as large, *.5 half; # must be $\geq 0$ , depending on context

Negative sizes are allowed in certain contexts, such as for gaps; in other cases, such as the size of symbol, the size must be nonnegative, and negative sizes, if specified, are ignored.

Examples:

<i>example</i>	Description
<code>msize(2)</code>	make marker diameter 2% of $g$
<code>msize(1.5)</code>	make marker diameter 1.5% of $g$
<code>msize(.5)</code>	make marker diameter .5% of $g$
<code>msize(*2)</code>	make marker size twice as large as default
<code>msize(*1.5)</code>	make marker size 1.5 times as large as default
<code>msize(*.5)</code>	make marker size half as large as default
<code>xsca(titlegap(2))</code>	make gap 2% of $g$
<code>xsca(titlegap(.5))</code>	make gap .5% of $g$
<code>xsca(titlegap(-2))</code>	make gap -2% of $g$
<code>xsca(titlegap(-.5))</code>	make gap -.5% of $g$
<code>xsca(titlegap(*2))</code>	make gap twice as large as default
<code>xsca(titlegap(*.5))</code>	make gap half as large as default
<code>xsca(titlegap(*-2))</code>	make gap -2 times as large as default
<code>xsca(titlegap(*-.5))</code>	make gap -.5 times as large as default

where  $g = \min(\text{width of graph, height of graph})$

## Remarks and examples

*relativesize* is allowed, for instance, as a *textsizestyle* or a *markersizestyle*—see [G-4] *textsizestyle* and [G-4] *markersizestyle*—and as the size of many other things, as well.

Relative sizes are not restricted to being integers; relative sizes of .5, 1.25, 15.1, etc., are allowed.

## Also see

[G-4] *markersizestyle* — Choices for the size of markers

[G-4] *textsizestyle* — Choices for the size of text