

GML Tags

Globally defined Tags

id *integer*

id defines an identifier for an object. The values of **id** tags must be unique under certain constraints. For example, there may not be two nodes with the same **id**.

In an array, **id** can be used for indexing.

name *string*

name is similar to **id** but uses a **string** instead of an integer. Again, the level of uniqueness is defined by the application.

label *string*

label defines a textual label attached to an object. Typically, labels are attached to [node](#) or an [edge](#).

comment *string*

Defines a comment embedded in a GML file. Comments are ignored by the application.

Creator *string*

The name of the application created this file.

Graph Tags

graph *list*

The tag **graph** starts a new graph. Common tags within **graph** are [node](#) and [edge](#).

node *list*

The tag **node** starts a new node. Common tags within **node** are [id](#), [label](#), [graphics](#) and [LabelGraphics](#).

edge *list*

The tag **edge** starts a new edge. Required tags within **edge** are [source](#) and [target](#). Common tags are [label](#), [graphics](#) and [LabelGraphics](#).

Graphics

graphics *list*

graphics defines the graphical representation of a [graph](#), a [node](#) or an [edge](#). Graphlet defines a separate tag [LabelGraphics](#) which optionally defines the graphical representation of the label.

x *double*

In context of [center](#), **x** defines an x coordinate.

y *double*

In context of [center](#), **y** defines an y coordinate.

z *double*

In context of [center](#), **z** defines an x coordinate.

w *double*

In context of [graphics](#), **w** defines the width of an object.

h *double*

In context of [graphics](#), **h** defines the height of an object.

d *double*

In context of [graphics](#), **d** defines the depth of an object.

Line *list*

Line defines a polyline, typically to describe an edge. **Line** contains at least two [point](#) objects.

point *list*

point defines a point, for example a point of a [Line](#). **point** contains [x](#), [y](#) and optionally [z](#).

type *string* (Graphlet Extension, derived from Tk)

type defines the type of a graphic object. Graphlet recognizes the following values:

- **arc**
- **bitmap**
- **image**
- **line**
- **oval**
- **polygon**
- **rectangle**
- **text**

Default value is **rectangle**

visible *bool* (Graphlet Extension)

Determines whether the object is visible or not.

fill *string* (Graphlet Extension, derived from Tk)

Defines a color to fill the interior of an object with.

outline *string* (Graphlet Extension, derived from Tk)

The color of the outline of the object.

stipple *string* (Graphlet Extension, derived from Tk)

The color of the outline of the object.

anchor *string* (Graphlet Extension, derived from Tk)

Defines the anchor position (that is, the relative location of (x,y,z) of a **bitmap**, **image** or **text** object. Graphlet recognizes the following values:

- **c** center
- **n** north
- **ne** northeast
- **e** east
- **se** southeast
- **s** south
- **sw** southwest
- **w** west
- **nw** northwest

width *double* (Graphlet Extension, derived from Tk)

The **width** is the width of a line or an outline.

extent *double* (Graphlet Extension, derived from Tk)

(**arc** only) The length of the arc in counter-clockwise direction, in degrees.

start *double* (Graphlet Extension, derived from Tk)

(**arc** only) The starting angle of the arc, in degrees.

style *string* (Graphlet Extension, derived from Tk)

(**arc** only) The style of an arc. Graphlet recognizes the following values:

- pieslice
- chord
- arc

background *string* (Graphlet Extension, derived from Tk)

(**bitmap** only) The background color of a bitmap.

foreground *string* (Graphlet Extension, derived from Tk)

(**bitmap** only) The foreground color of a bitmap.

bitmap *bitmap* (Graphlet Extension, derived from Tk)

(**bitmap** only) The file name of the bitmap. Graphlet recognizes **X Bitmap** files through Tk.

image *string* (Graphlet Extension, derived from Tk)

(**image** only) The file name of the image. Graphlet recognizes **GIF** and **JPEG** images through Tk.

arrow *string* (Graphlet Extension, derived from Tk)

(**line** only) The position of the arrow. Graphlet recognizes the following values:

- **none**
- **first**
- **last**
- **both**

Undirected graphs should use **none**, directed graphs should use **first**.

capstyle *string* (Graphlet Extension, derived from Tk)

(**line** only) Line ends. Graphlet recognizes the following values:

- **butt**
- **projecting**
- **round**

joinstyle *string* (Graphlet Extension, derived from Tk)

(**line** only) Line joints. Graphlet recognizes the following values:

- **bevel**
- **miter**
- **round**

smooth *boolean* (Graphlet Extension, derived from Tk)

(**line**, **polygon** only) Determines whether the line should be drawn as a straight lines or splines.

splinsteps *integer* (Graphlet Extension, derived from Tk)

(**line**, **polygon** only) Number of line segments that approximate the spline. Only active if **smooth** is set to **1**.

justify *string* (Graphlet Extension, derived from Tk)

(**text** only) text justification. Graphlet recognizes the following values:

- left
- right
- center

font *string* (Graphlet Extension, derived from Tk)

(**text** only) Name of the X11 font to draw the text with. Device independent form not determined yet.

