

Warning: This API is deprecated. Please use the actively maintained [Google Charts \(/chart\)](#) API instead. See our [deprecation policy \(/chart/terms\)](#) for details.

GraphViz Charts



This document describes how to create GraphViz charts using the Chart API.

Overview

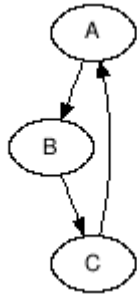
GraphViz is a package of open source tools for visualizing connectivity graphs. You can create GraphViz graphs using the DOT language and your choice of layout engines.

GraphViz charts support a different set of required parameters. Here are the supported parameters:

Parameter	Required or Optional	Description
<code>cht=gv[:<opt_engine>]</code>	Required	Specifies a GraphViz chart. You can optionally specify a GraphViz engine. If you want to specify a layout engine, include the semicolon <code>:</code> mark and specify one of the following strings for <code><opt_engine></code> : <ul style="list-style-type: none"><code>dot</code> - The default engine<code>neato</code><code>twopi</code><code>circo</code><code>fdp</code> See the GraphViz website (http://www.graphviz.org/) for a description of these different engines.
<code>chs=<width>x<height></code>	Optional	If you don't specify a size, the chart will be sized automatically.
<code>chl=<DOT_string></code>	Required	The chart to draw, in DOT language notation. You can find the DOT language reference (http://www.graphviz.org/doc/info/lang.html) on the GraphViz website.
<code>chd</code>	NOT USED	GraphViz codes are unusual in that the <code>chd</code> parameter is ignored. Don't include it in your URL.
<code>chof=<output_format></code>	Optional	An output format (https://developers.google.com/chart/image/docs/chart_params?hl=es#gcharts_chof) for the chart. See the parameter description to learn what output formats are supported. If you specify <code>chof=json</code> , you will get back a JSON representation of the chart as HTML image map that you can use to add links or interactivity to the chart. See Creating a Chart Image Map (https://developers.google.com/chart/image/docs/json_format?hl=es) for details.
<code>callback=<handling_function_name></code>	Optional	If you specify <code>chof=json</code> , you can also specify a function to call with the returned JSON that includes the image map of the chart. Your function must accept a single JSON parameter, which will be a JSON representation of the chart. Your page can then specify your chart as an <code></code> element to render the chart, and also call the same URL with <code>chof=json&callback=somefunc</code> , and include a function called <code>somefunc()</code> that will parse the returned JSON and add links or interactivity.

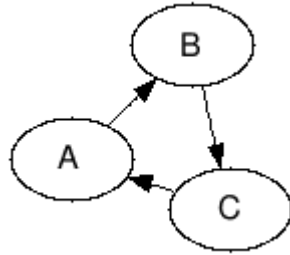
Examples:

Description	Example
dot engine example (default).	



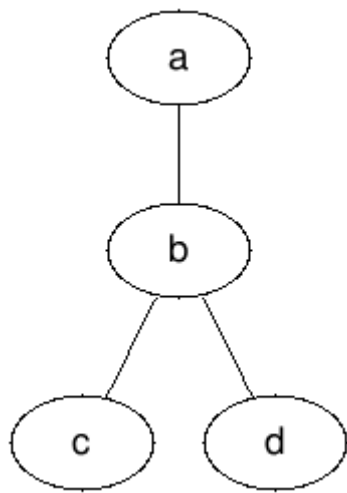
```
cht=gv
chl=digraph{A->B->C->A}
chs=150x150
```

neato engine example of the same chart.



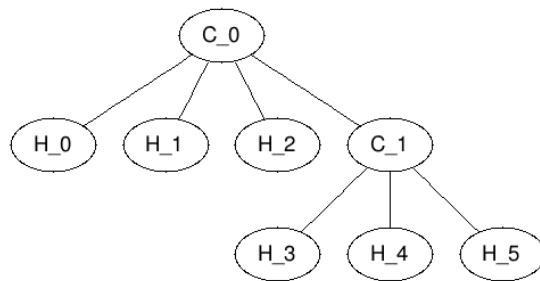
```
cht=gv:neato
chl=digraph{A->B->C->A}
chs=150x150
```

A dot chart, with no size specified. The chart is sized automatically.



```
cht=gv
chl=graph{a--b--c;b--d}
```

A more complex chart.



```
cht=gv
chl=
graph{C_0--H_0[type=s];C_0--H_1[type=s];C_0--H_2[type=s];C_0--C_1[type=s];C_1--
H_3[type=s];C_1--H_4[type=s];C_1--H_5[type=s]}
```

Here are some tips and known limitations in the current GraphViz charts:

- The graph attribute `size` should not be used; use the Chart API parameter `chs` instead.
- The maximum number of nodes is 200, and the maximum for edges is 400.
- Anti-aliasing, transparency, and alternate fonts are not supported.
- The node attributes `image` and `shapefile` are not supported, and will result in an error if present.
- The graph attributes `ratio`, `margin`, and `pad` are not supported, and will be ignored if present.

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