

GraphZoom allows you to work with graphs (from Grapher) at different scales.

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## Requirements

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GRAPHER

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## Installation

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Load GRAPHER.LCOM and GRAPHZOOM.LCOM from the library.

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## User Interface

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The interface to GraphZoom is through the function SHOWZOOMGRAPH which is used instead of SHOWGRAPH. The resulting grapher window has the capability of being zoomed by using a menu that is attached to the top. To use, call SHOWZOOMGRAPH:

The window will have a menu above it that contains the items LARGER and SMALLER. Selecting in the menu with the left button will cause a small change in scale; selecting with the middle button will cause a larger change in scale.

The graph will zoom toward the center of the window.

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## Function

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(SHOWZOOMGRAPH *GRAPH WINDOW LEFTBUTTONFN*  
*MIDDLEBUTTONFN TOPJUSTIFYFLG ALLOWEDITFLG INITSCALE*)

[Function]

The arguments are the same as in the Grapher function SHOWGRAPH. *INITSCALE* is the initial scale at which the graph is shown. The default, 1.0, is the same as in SHOWGRAPH. Larger scales make the graph appear smaller.

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## Limitations

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The zooming of text is driven from a list of font descriptors stored as the value of the variable DECREASING.FONT.LIST. The

values on this list are Times Roman 72, 36, 30, Helvetica 24, 18, 14, 12, 10, 8, 5, 4, and 3. Graphs that have fonts other than Helvetica will get printed in the closest Helvetica size. This is often smaller than the corresponding Gacha font.