

# GRAPHZOOM

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

## Requirements

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GRAPHER

## Installation

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

## 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 has a menu above it that contains the items `LARGER` and `SMALLER`. Selecting in the menu with the left button causes a small change in scale; selecting with the middle button causes a larger change in scale.

The graph zooms toward the center of the window.

## 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.

## 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 are printed in the closest Helvetica size. This is often smaller than the corresponding Gacha font.

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