

To derive slope from a surface

- 1 Activate the grid or TIN theme on which to derive slope.
- 2 From the Surface menu, choose Derive Slope.
- 3 If the input theme is a TIN, specify the output extent in the Output Grid Extent dropdown list, the cell size in the Output Grid Cell Size Input field, and the number of rows and columns in the Number of Rows and Number of Columns input fields on the Output Grid Specification dialog. Press OK.

Derive Slope identifies the slope, or maximum rate of change, from each cell to its neighbors. The output slope grid theme represents the degree of slope (e.g., 10 degree slope) for each cell location.

The output grid theme from Derive Slope is automatically named "Slope of" followed by the name of the input theme. The grid data set associated with the output theme is written to the project's working directory, with the name "slope" followed by a unique number. Use Properties in the Theme menu to find out which data set is associated with which theme. Use Properties in the Project menu to change the project's working directory. The grid data set associated with the output theme is temporary and will be deleted when the theme is deleted. Use Save Data Set in the Theme menu or save the project to prevent the grid data set from being deleted when the theme is deleted.