

Instant Site Grader Nui Parameters

Instant Site Grader tutorials for additional information. Basic methods and parameters are the same for the "Use Lines" method

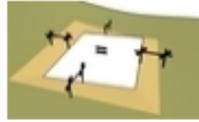
Based on what is selected, the script will offer either the **USE LINES**  or **USE OBJECT**  methods

Grade around closed loop of lines **USE LINES**  Grades around closed loop made of lines or curves.

STYLE PARAMETERS

Shoulder Type Equal Width Variable
Width

GRADE **CANCEL**



Select a group containing a closed loop of lines (no lines should be vertical) plus a live terrain or connected faces. It functions like my old version of Instant Site Grader except is a little more forgiving as it can fix some small gaps in the loop outline and fix some incorrect vertical lines. Click the Grade tool:

STYLE PARAMETERS

Shoulder Type Equal Width Variable
Width

GRADE **CANCEL**



Option for graded width to vary based on cut/ fill slopes

Shoulder Type Equal Width Variable
Width
Max Width
Max Cut Slope %
Max Fill Slope %



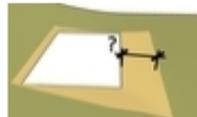
STYLE PARAMETERS

Shoulder Type Equal Width Variable
Width
Max Width
Max Cut Slope %
Max Fill Slope %



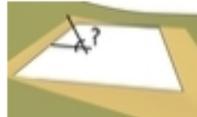
STYLE PARAMETERS

Shoulder Type Equal Width Variable
Width
Max Width
Max Cut Slope %
Max Fill Slope %

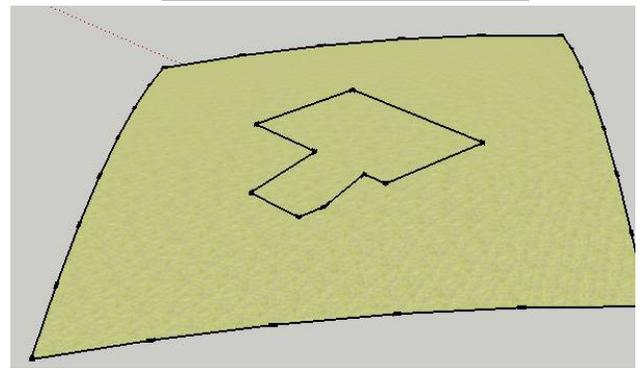


STYLE PARAMETERS

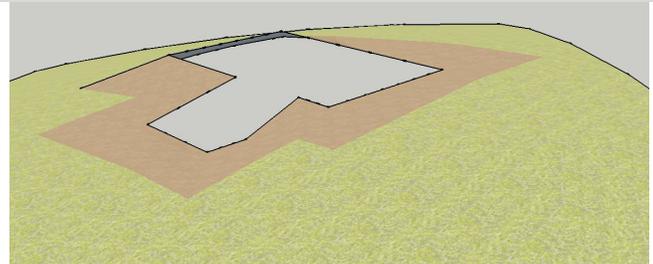
Shoulder Type Equal Width Variable
Width
Max Width
Max Cut Slope %
Max Fill Slope %



Grade around Loop or Object
Select active terrain plus group



The output merges the terrain with the line loop



----- STYLE PARAMETERS -----

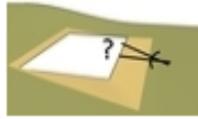
Shoulder Type Equal Width Variable

Width

Max Width

Max Cut Slope %

Max Fill Slope % x



Grade around object

USE OBJECT



Uses vertical faces in a group or component where they intersect terrain to make loop to grade around.

----- STYLE PARAMETERS -----

Shoulder Type

Width x

FLATTEN



Select a group or component containing faces that if intersected with the terrain will make a closed loop plus a live terrain or connected faces. Click the Grade tool



Grade around Loop or Object
Select active terrain plus group

----- STYLE PARAMETERS -----

Shoulder Type

Width

FLATTEN



----- STYLE PARAMETERS -----

Shoulder Type

Width

FLATTEN

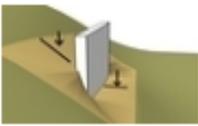


----- STYLE PARAMETERS -----

Shoulder Type

Width

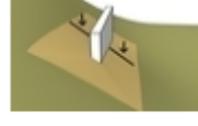
FLATTEN



----- STYLE PARAMETERS -----

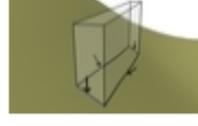
Shoulder Type

Width



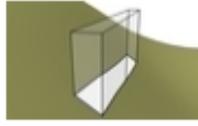
----- STYLE PARAMETERS -----

Shoulder Type



----- STYLE PARAMETERS -----

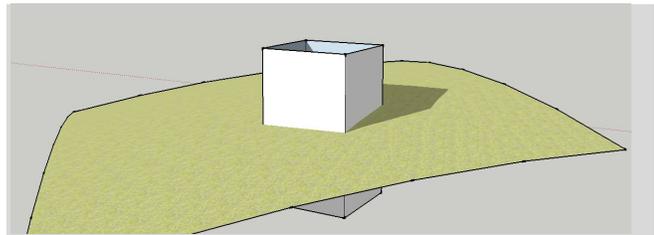
Shoulder Type



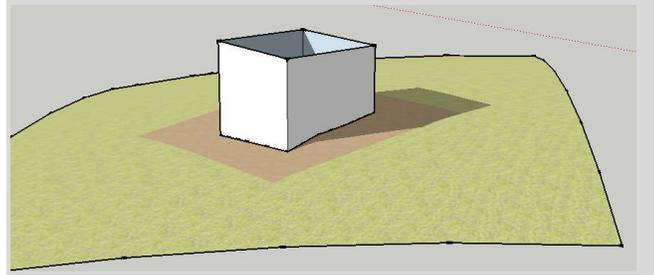
FLATTEN is to smooth out bumps as it is making the graded area. Bumps may also be flattened using the Smooth Terrain Edge tool shown below.

FLATTEN

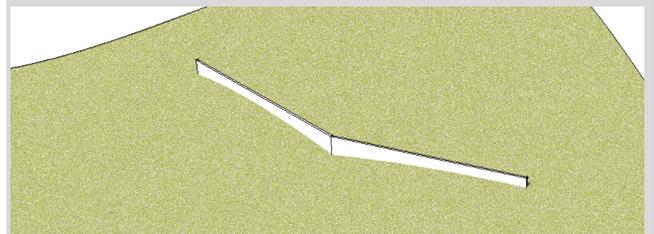
Max Bump Width



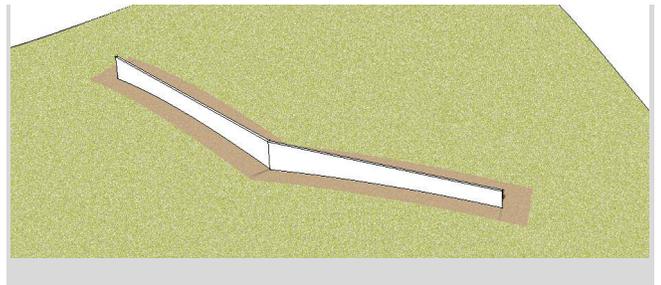
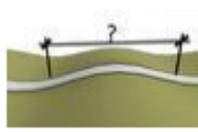
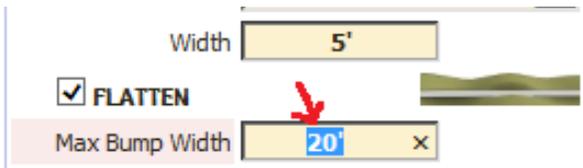
The output will be a merged area around the object. Options include creation of level graded areas at top, bottom or both.



Next I made a wall using my Instant Wall script.



Then used the Grade Around Object method:



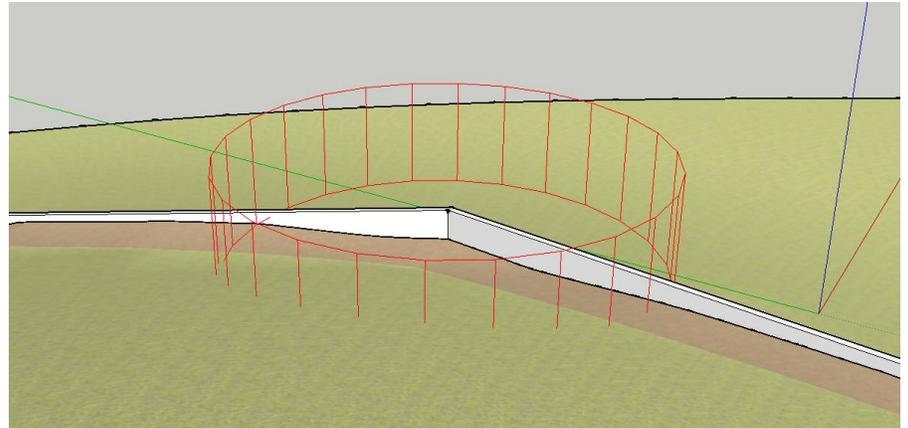
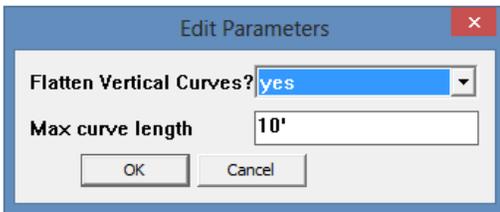
Adjust Grade Tool *Moves edges of terrain up or down. It adjusts the terrain height on one side of the object only.*

The tool uses a circle select tool (user can change the diameter) to select the edges to raise or lower.

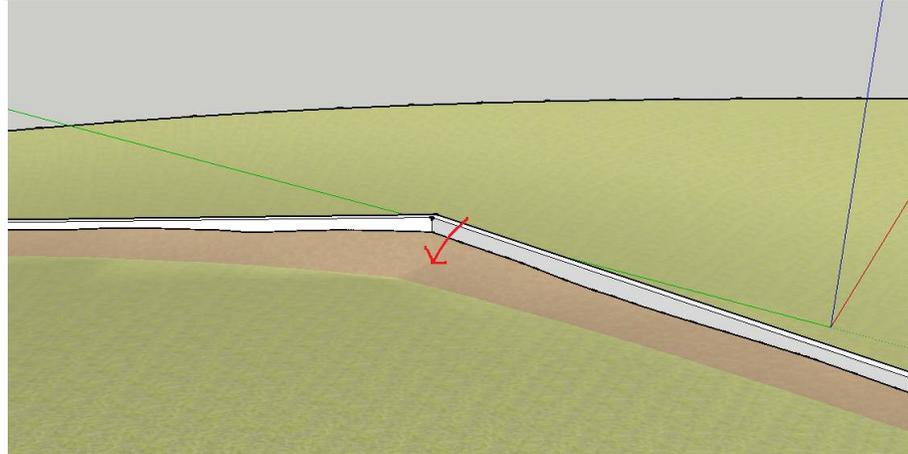


Adjust Terrain Edge Height
Select Terrain edge(s) or use tool

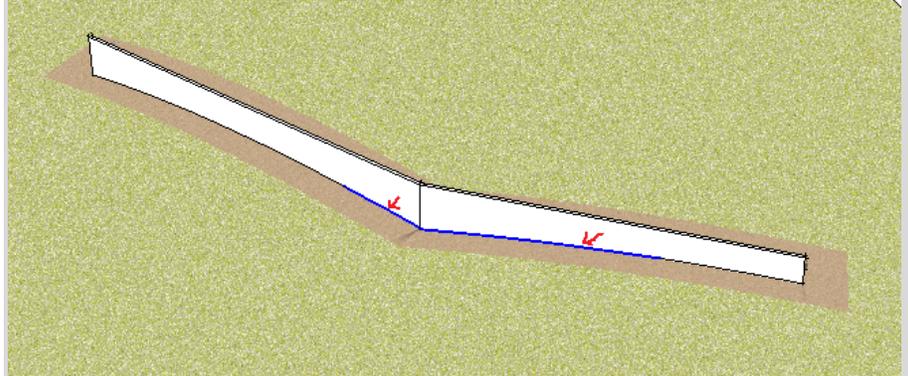
There is an option to flatten bumps as the tool is working. This can also be done with the Smooth tool as shown in the next section. The menu will display below and has a similar result as the "Flatten" parameter in the section above.



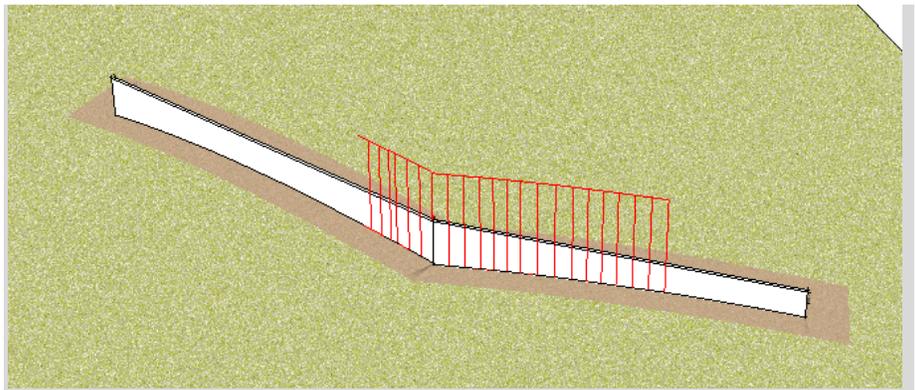
The result:



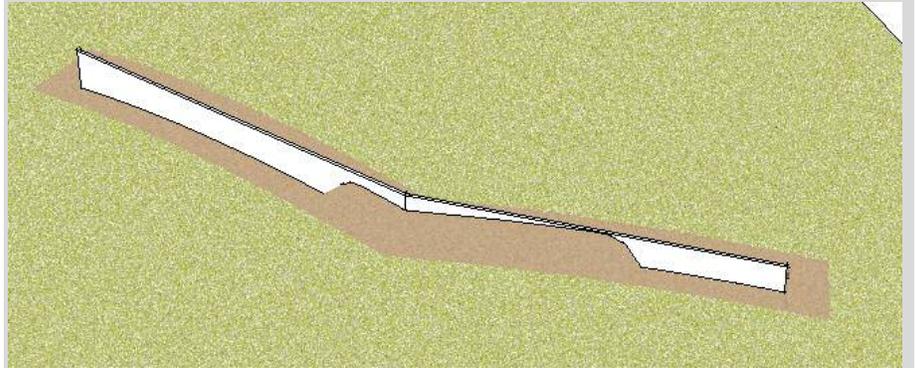
If edges are selected prior to running the tool,



... only those edges will be raised or lowered rather than using the circle select tool.



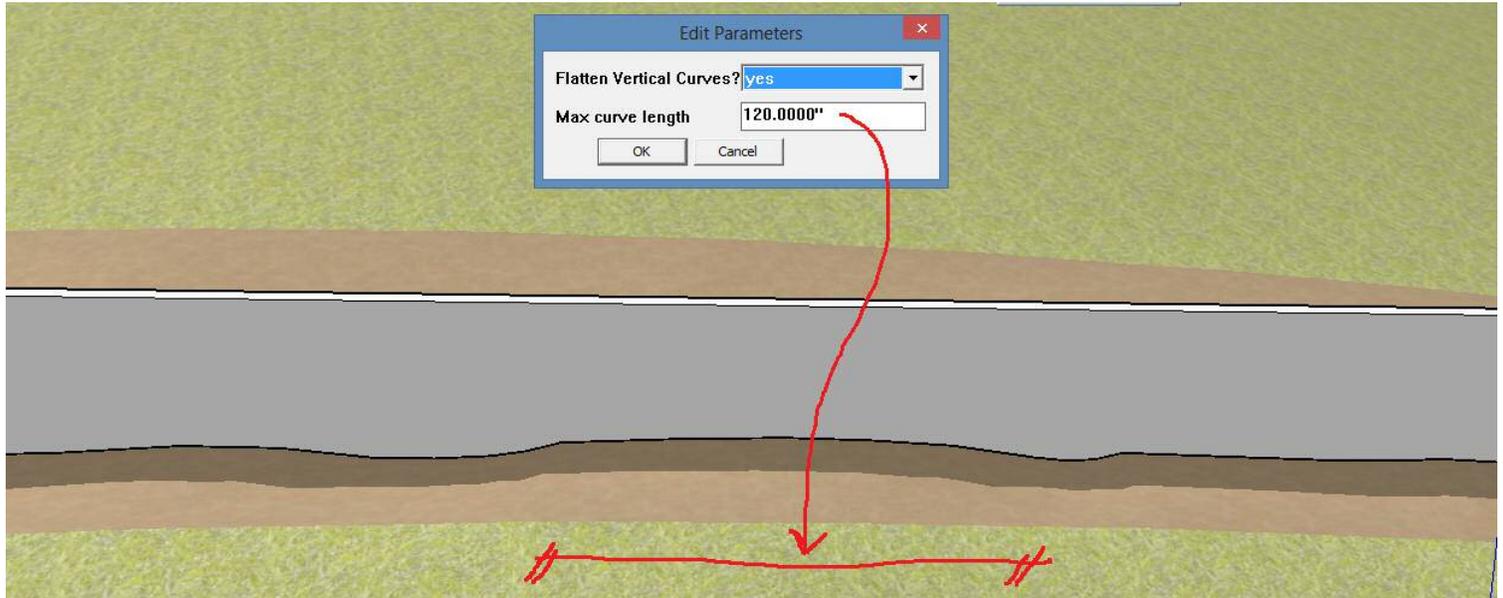
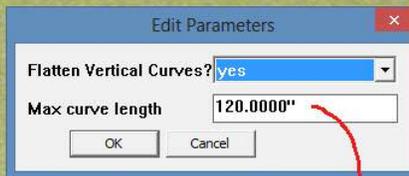
The result:



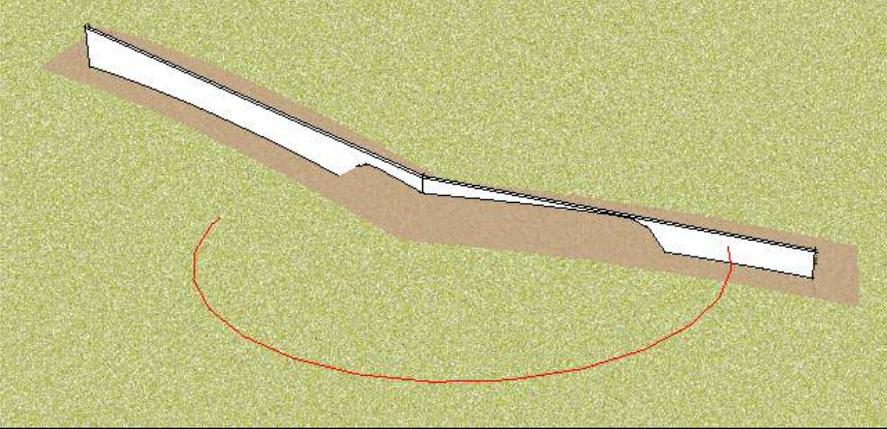
Smooth Terrain Edge Tool *Smooths bumps in the edge of the terrain. It affects edges on one side of the object only. Flatten parameters are similar to the sections above.*



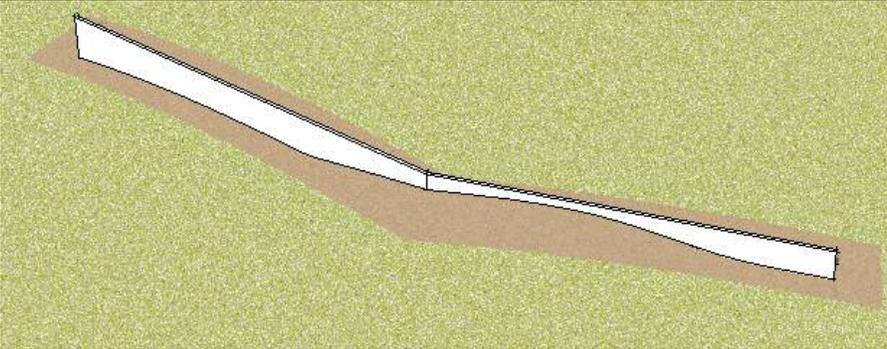
Smooth Terrain Edge
Select Edge(s) or Use Tool



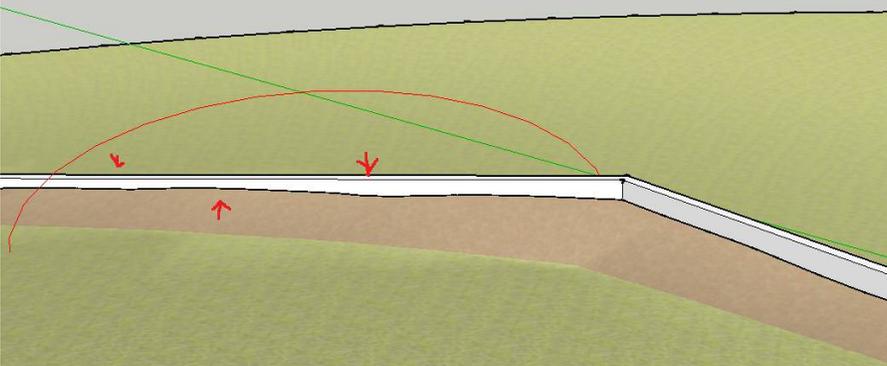
Starting with the results from above, bumps can be smoothed out using the circle select tool or by pre selecting the edges to smooth.



The result:



Here is the other side of the wall from above



The result:

