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GEOG 4140-001

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Lab 10 Deliverable 3

What did changing the power parameter in step 4 do? How did it change the way in which the IDW interpreted the data?

The IDW gives more weight on nearby control points than ones that are far away and relies on local trends to interpolate, so by lowering the power parameter from the default value of 2 to 0.5, what was essentially done was *lessening the emphasis* on the nearest points—they have *less weight*, so to speak, and that emphasis was applied to more distant points instead; this is the primary explanation why the IDW with the 0.5 power is much more smoothed and possesses less detail than that of its counterpart, the IDW with the power of 2. Comparing the two, the IDW power 0.5 did maintain the rough locations of the very red areas, but only some of the very green areas that are few in between, and the yellow areas are much more abundant compared to the IDW power 2.