

GIS - Documentation #8321

How Inverse Distance Weighting (IDW) interpolation works

16/05/2019 17:35 - Debojyoti Mallick

Status:	Closed	Start date:	16/05/2019
Priority:	Normal	Due date:	
Assignee:	Philippe May	% Done:	0%
Category:		Estimated time:	0.00 hour
Target version:		Spent time:	0.00 hour
Description			
Hello everyone:			
You can read through the following links to learn more about how IDW works and if it can be of any use with regards to Basin Analysis.			
How inverse distance weighted interpolation works : https://pro.arcgis.com/en/pro-app/help/analysis/geostatistical-analyst/how-inverse-distance-weighted-interpolation-works.htm			
The IDW tool in ArcGIS for the Parameters : https://pro.arcgis.com/en/pro-app/tool-reference/geostatistical-analyst/idw.htm			
Another simpler explanation : https://gisgeography.com/inverse-distance-weighting-idw-interpolation/			
Nevertheless you can always check Wiki description : https://en.wikipedia.org/wiki/Inverse_distance_weighting			
To have some clarity of using this in QGIS (Disclaimer : very basic results just for understanding and also limited to a raster format): https://www.geodose.com/2019/03/spatial-interpolation-inverse-distance-weighting-idw.html			
FYI: ArcGIS gives you the option of providing the output as a GeoStatistical Layer which can be eventually converted to a Raster Layer. We would have to run it to eventually realize if the vector layer generated would give us the same problems previously encountered with lines and directions (dosen't seem so judging from examples)			

History

#1 - 24/05/2019 16:53 - Philippe May

- Status changed from New to Closed

Interesting. I don't think it's very useful in the discussed scope (basin), but it's good information for further reference.