

## DensityToVector

**Title** DensityToVector

### Description

*This script is intended to help aid a density based network/vector analysis process by computing KDEs, associating them with a target vector file, and computing percentile scores of non-zero/null density scores. This helps with cartography and analysis on networks and other vector data.*

### Usage

*This script is intended to help aid a density based network/vector analysis process by computing KDEs, associating them with a target vector file, and computing percentile scores of non-zero/null density scores. This helps with cartography and analysis on networks and other vector data.*

### Syntax

DensityToVector (Input\_Density\_FC, Weight\_Fields, Input\_Target\_Vector, {Add\_Percentiles}, {Prepended\_Field\_Name\_Edit}, Cell\_Size, Search\_Radius, Areal\_Unit\_Factor)

Parameter	Explanation	Data Type
Input_Density_FC	Dialog Reference Feature class of point values that will be used to compute kernel densities.  There is no python reference for this parameter.	Feature Class
Weight_Fields	Dialog Reference Density feature class fields that are used to both weight and filter kernel density estimates. Each kernel density is computed on non-null values, but a weight of 0 will still be treated as non-existent data.  There is no python reference for this parameter.	Multiple Value
Input_Target_Vector	Dialog Reference This is the target network/vector that the kernel densities will be associated with. Zero values will be turned into nulls.  There is no python reference for this parameter.	Feature Class
Add_Percentiles (Optional)	Dialog Reference If true, this will add a percentile calculation for every weight field.  There is no python reference for this parameter.	Boolean
Prepended_Field_Name_Edit (Optional)	Dialog Reference This will edit the added field names to add what ever characters/text is added here. For a regional kernel density, you could add "REG" and it will be added to	String

the new fields.

There is no python reference for this parameter.

Cell_Size	Dialog Reference Cell Size of output KDE rasters to be associated with network. There is no python reference for this parameter.	Long
Search_Radius	Dialog Reference Search Radius of KDE estimation function of ArcGIS. There is no python reference for this parameter.	Double
Areal_Unit_Factor	Dialog Reference Determines output units of KDE estimation. There is no python reference for this parameter.	String

## Code Samples

There are no code samples for this tool.

## Tags

Density, network

## Credits

David Wasserman

## Use limitations

There are no access and use limitations for this item.

*You are currently using the Item Description metadata style. Change your metadata style in the Options dialog box to see additional metadata content.*