```
File - TableInterpolatedGrid By: r.cfdtools@gmail.com Printed from: PyCharm 2021.3 run log
"C:\Program Files\ArcGIS\Pro\bin\Python\envs\arcgispro-py3\python.exe" D:/R.GISPython/
TableInterpolatedGrid/TableInterpolatedGrid.py
Spatial interpolation and representation of meteorological data in a unique symbology ramp
Execution date & time: 2021-12-31 11:34:19.200380
Script compatibility: ArcGIS for Desktop 10.6+ y ArcGIS Pro
Python version: 3.7.11 [MSC v.1927 64 bit (AMD64)]
Python path: ['D:\\R.GISPython\\TableInterpolatedGrid', 'C:\\Program Files\\ArcGIS\\Pro\\
Resources\\ArcPy', 'D:\\R.GISPython', 'D:\\R.GISPython.wiki', 'C:\\Program Files\\ArcGIS\\Pro\\
bin\\Python\\envs\\arcgispro-py3\\python37.zip']
matplotlib version: 3.4.2
Repository: https://github.com/rcfdtools/R.GISPython/tree/main/TableInterpolatedGrid
License and conditions: https://qithub.com/rcfdtools/R.GISPython/wiki/License
Credits: r.cfdtools@gmail.com
_____
Requirements
-----
Valid table format file: comma separated values .csv
Float or double values required period as decimal separator.
CSV file with header row.
Field or attribute names can not content comma or special characters.
Header attributes names required: Julian (1-366), Month (1-12), CX, CX, CZ, Var.
Var correspond to the numeric variable for analysis. User can choice the var name.
Compatible with ArcGIS for Desktop 10+ and ArcGIS Pro.
ArcGIS Spatial analyst extension: CheckedOut
Study case & File data summary
Study case: Estudio de la precipitación media en el Departamento del Cesar - Colombia - Suramérica
Input file: D:/R.GISPython/TableInterpolatedGrid/Data/Sample3PrecipitationAverageMonthly.csv
Log file #: 164096845920
Attributes: 11
Records: 336
{R} Attention - Close all the ArcGIS for Desktop applications and press Enter >>
{R} Number sample records for print (0/337): >> 337
Entry option was 337.
Data file record sample (337 records)
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(00326)['1', '5', '28045040', 'Hda. La Guaira', '15', '1', '15', '1030460.888', '1555235.529', '
50', '20.25301993']
(00327)['1', '5', '28045040', 'Hda. La Guaira', '46', '2', '15', '1030460.888', '1555235.529', '
50', '28.16147537']
(00328)['1', '5', '28045040', 'Hda. La Guaira', '74', '3', '15', '1030460.888', '1555235.529', '
50', '28.97733862']
(00329)['1', '5', '28045040', 'Hda. La Guaira', '105', '4', '15', '1030460.888', '1555235.529', '
50', '172.687287']
(00330)['1', '5', '28045040', 'Hda. La Guaira', '135', '5', '15', '1030460.888', '1555235.529', '
50', '154.4755211']
(00331)['1', '5', '28045040', 'Hda. La Guaira', '166', '6', '15', '1030460.888', '1555235.529', '
50', '124.2467706']
(00332)['1', '5', '28045040', 'Hda. La Guaira', '196', '7', '15', '1030460.888', '1555235.529', '
50', '89.5632762']
(00333)['1', '5', '28045040', 'Hda. La Guaira', '227', '8', '15', '1030460.888', '1555235.529', '
50', '179.4427168']
(00334)['1', '5', '28045040', 'Hda. La Guaira', '258', '9', '15', '1030460.888', '1555235.529', '
50', '141.7285786']
(00335)['1', '5', '28045040', 'Hda. La Guaira', '288', '10', '15', '1030460.888', '1555235.529
', '50', '166.7002795']
(00336)['1', '5', '28045040', 'Hda. La Guaira', '319', '11', '15', '1030460.888', '1555235.529
', '50', '110.084865']
(00337)['1', '5', '28045040', 'Hda. La Guaira', '349', '12', '15', '1030460.888', '1555235.529
', '50', '14.0179338']
```

Headers in data file:

```
#, Field name
```

⁽⁰¹⁾ CHParamID

⁽⁰²⁾ CHIntervaloID

⁽⁰³⁾ Station

⁽⁰⁴⁾ StatName

```
(05) Julian
(06) Month
(07) Day
(08) CX
(09) CY
(10) CZ
(11) Var
\{R\} Field number to eval (1/11): >> 11
Entry option was 11.
Variable in use is [Var]
{R} Print all records in source file (Y/N, Python 2 with quotes) >> y
Entry option was y.
-----
Graph text format in field # 11
______
Max value: 387.3423191
00001 [|||
                                          ] 26.8447 of 387.3423191(6.9%)
00002 [|||||
                                          ] 44.6457 of 387.3423191(11.5%)
00003 [|||||||||
                                          ] 88.0668 of 387.3423191(22.7%)
00004 [||||||||||||||||
                                          ] 156.8302 of 387.3423191(40.5%)
] 264.0614 of 387.3423191(68.2%)
00006 [|||||||||||||||
                                          ] 180.5749 of 387.3423191(46.6%)
00007 [|||||||||||||
                                          ] 129.0868 of 387.3423191(33.3%)
202.0675 of 387.3423191(52.2%)
] 254.7411 of 387.3423191(65.8%)
296.5721 of 387.3423191(76.6%)
] 231.3762 of 387.3423191(59.7%)
00012 [||||||
                                          ] 58.2985 of 387.3423191(15.1%)
                                          ] 11.7019 of 387.3423191(3.0%)
00013 [|
00014 [||||
                                          ] 32.8416 of 387.3423191(8.5%)
00015 [|||||||
                                          ] 62.0208 of 387.3423191(16.0%)
00016 [||||||||||||||
                                          ] 146.8925 of 387.3423191(37.9%)
] 200.4774 of 387.3423191(51.8%)
00018 [||||||||||||||
                                          ] 137.7358 of 387.3423191(35.6%)
                                          ] 107.5094 of 387.3423191(27.8%)
00019 [|||||||||||
] 204.3578 of 387.3423191(52.8%)
] 226.6208 of 387.3423191(58.5%)
274.5472 of 387.3423191(70.9%)
                                          ] 224.8132 of 387.3423191(58.0%)
00024 [||||||
                                          ] 56.6981 of 387.3423191(14.6%)
00025 [||
                                          ] 21.3755 of 387.3423191(5.5%)
00026 [|||||
                                          ] 42.1906 of 387.3423191(10.9%)
00027 [||||||||
                                          ] 84.2499 of 387.3423191(21.8%)
00028 [|||||||||||||||
                                          ] 145.9985 of 387.3423191(37.7%)
] 205.921 of 387.3423191(53.2%)
00030 [|||||||||||||
                                          ] 131.7132 of 387.3423191(34.0%)
                                          ] 102.9226 of 387.3423191(26.6%)
00031 [||||||||||
] 171.083 of 387.3423191(44.2%)
] 215.3811 of 387.3423191(55.6%)
] 320.0113 of 387.3423191(82.6%)
                                          ] 218.066 of 387.3423191(56.3%)
00036 [||||||
                                          ] 61.4283 of 387.3423191(15.9%)
00037 [|||
                                          ] 30.6415 of 387.3423191(7.9%)
00038 [|||||
                                          ] 46.8566 of 387.3423191(12.1%)
00039 [||||||||||
                                          ] 112.7555 of 387.3423191(29.1%)
] 198.483 of 387.3423191(51.2%)
] 272.6604 of 387.3423191(70.4%)
```

File - TableInterpolatedGrid By: r.cfdtools@qmail.com Printed from: PyCharm 2021.3 run log

00163 [||||||||||||

] 110.1793 of 387.3423191(28.4%)

] 109.4389 of 387.3423191(28.3%)

] 161.0 of 387.3423191(41.6%)

00223 [||||||||||||

00224 [||||||||||||||||

] 100.548 of 387.3423191(26.0%)

] 155.9936 of 387.3423191(40.3%)] 170.149 of 387.3423191(43.9%)

00283 [||||||||||

File - TableInterpolatedGrid By: r.cfdtools@gmail.com	Printed from: PyCharm 2021.3 run log
00286 [] 191.0017 of 387.3423191(49.3%)
] 134.4827 of 387.3423191(34.7%)
	32.623 of 387.3423191(8.4%)
] 6.4068 of 387.3423191(1.7%)
] 26.1909 of 387.3423191(6.8%)
] 77.8425 of 387.3423191(20.1%)
] 115.9568 of 387.3423191(29.9%)
00293 [] 173.0142 of 387.3423191(44.7%)
00294 [] 111.45 of 387.3423191(28.8%)
00295 [] 105.2614 of 387.3423191(27.2%)
00296 [] 143.7417 of 387.3423191(37.1%)
] 142.9377 of 387.3423191(36.9%)
] 176.9545 of 387.3423191(45.7%)
] 125.317 of 387.3423191(32.4%)
	35.093 of 387.3423191(9.1%)
	-
] 9.2499 of 387.3423191(2.4%)
] 31.3598 of 387.3423191(8.1%)
] 69.6524 of 387.3423191(18.0%)
] 150.0395 of 387.3423191(38.7%)
] 172.9877 of 387.3423191(44.7%)
00306 [] 117.0547 of 387.3423191(30.2%)
00307 [] 91.3518 of 387.3423191(23.6%)
00308 [] 180.0967 of 387.3423191(46.5%)
] 159.5294 of 387.3423191(41.2%)
] 217.3287 of 387.3423191(56.1%)
] 137.4709 of 387.3423191(35.5%)
	42.5362 of 387.3423191(11.0%)
] 11.2685 of 387.3423191(2.9%)
] 25.4524 of 387.3423191(6.6%)
] 64.3149 of 387.3423191(16.6%)
] 138.2134 of 387.3423191(35.7%)
] 185.8608 of 387.3423191(48.0%)
00318 [] 124.32 of 387.3423191(32.1%)
00319 [] 91.7706 of 387.3423191(23.7%)
00320 [] 142.2844 of 387.3423191(36.7%)
] 175.5966 of 387.3423191(45.3%)
00322 [] 231.75 of 387.3423191(59.8%)
] 170.5 of 387.3423191(44.0%)
	37.7 of 387.3423191(9.7%)
	20.253 of 387.3423191(5.2%)
	-
	28.1615 of 387.3423191(7.3%)
] 28.9773 of 387.3423191(7.5%)
] 172.6873 of 387.3423191(44.6%)
] 154.4755 of 387.3423191(39.9%)
] 124.2468 of 387.3423191(32.1%)
00331 [] 89.5633 of 387.3423191(23.1%)
00332 [] 179.4427 of 387.3423191(46.3%)
] 141.7286 of 387.3423191(36.6%)
] 166.7003 of 387.3423191(43.0%)
] 110.0849 of 387.3423191(28.4%)
] 14.0179 of 387.3423191(3.6%)

Statistics

Registers: 336 Count: 336 (not null)

Nulls: 0

Max: 387.3423191 Min: 6.406818182

```
File - TableInterpolatedGrid By: r.cfdtools@gmail.com Printed from: PyCharm 2021.3 run log
Sum: 44677.116350118995
Avg: 132.96760818487797
Spatial domain in the station records
Attributes: 11
CX field number: 8
CY field number: 9
336 records found.
CX max: 1101664.327000 CX min: 1020548.494000 Width: 81115.833000
CY max: 1618759.248000 CY min: 1508871.889000 Heigh: 109887.359000
Recommended grid size: 540.7722200000006
Frecuencies: 2
-----
ID, Max. val, Frequency field required
-----
01 0366 Dayly Julian
02 0012 Monthly Month
\{R\} Frequency to use (1/2): >> 2
Entry option was 2.
{R} Total grids to create (1/12): >> 12
Entry option was 12.
Coordinate Systems: 3
ID, Coordinate system
01 4326 WGS84
02 3116 MAGNAColombiaBogota
03 9377 MAGNA-SIRGAS / Origen-Nacional
\{R\} Coordinate system to use (1/3): >> 3
Entry option was 3.
PROJCS['MAGNA_Colombia_Origen_Unico',GEOGCS['GCS_MAGNA',DATUM['D_MAGNA',SPHEROID['GRS_1980',
6378137.0,298.257222101]],PRIMEM['Greenwich',0.0],UNIT['Degree',0.0174532925199433]],PROJECTION['
Transverse_Mercator'], PARAMETER['False_Easting',5000000.0], PARAMETER['False_Northing',2000000.0],
PARAMETER['Central_Meridian',-73.0],PARAMETER['Scale_Factor',0.9992],PARAMETER['
Latitude_Of_Origin',4.0],UNIT['Meter',1.0]]
{R} Output grid resolution for the coordinate system selected (540.772220 recommended) (0/10000
): >> 100
Entry option was 100.000000.
Total Color Map Styles: 15
______
ID, Colors, Color map style name
-----
00 0256 Grayscale
01 0256 White - Magenta
02 0256 White - Red
03 0256 Cyan - Red
04 0256 Green - Magenta
05 0256 Magenta - Green
06 0256 Purple - Green - Yellow
07 0256 Green - Light Green - Pink - Dark Pink - Purple (x5)
08 0256 Green - Light Green - Pink - Dark Pink - Purple (x8)
```

```
09 0256 Lila - Khaki - Blue (x15)
10 0256 Lila - Khaki - Blue (x13)
11 0256 Yellow - Pink - Green - Blue
12 0256 Gray - Aquamarina - Sea Blue
13 0512 Green Sea - Blue Sea - Purple - Red - Orange - Yellow (x18)
14 1024 Dark Pink - Mercury - Lime - Green (x13)
{R} Ramp color number (0/14): >> 13
Entry option was 13.
Color map file: D:/R.GISPython/TableInterpolatedGrid/ColorMapStyle/ColorMapArcGIS512_v13.clr
Color map sample: D:/R.GISPython/TableInterpolatedGrid/ColorMapStyle/ColorMapArcGIS512_v13.jpg
Creating 12 file grids
-----
FileGRDM001.tif- High(km):110.0- Width(km):81.2- Min:6.407- Max:32.5751- Ok...
FileGRDM002.tif- High(km):110.0- Width(km):81.2- Min:10.3832- Max:66.7947- Ok...
FileGRDM003.tif- High(km):110.0- Width(km):81.2- Min:28.9797- Max:112.7554- Ok...
FileGRDM004.tif- High(km):110.0- Width(km):81.2- Min:101.3466- Max:269.6653- Ok...
FileGRDM005.tif- High(km):110.0- Width(km):81.2- Min:154.4775- Max:318.1761- Ok...
FileGRDM006.tif- High(km):110.0- Width(km):81.2- Min:110.9968- Max:221.6947- Ok...
FileGRDM007.tif- High(km):110.0- Width(km):81.2- Min:84.3541- Max:169.7734- Ok...
FileGRDM008.tif- High(km):110.0- Width(km):81.2- Min:134.5488- Max:232.7073- Ok...
FileGRDM009.tif- High(km):110.0- Width(km):81.2- Min:141.7314- Max:313.9845- Ok...
FileGRDM010.tif- High(km):110.0- Width(km):81.2- Min:166.704- Max:387.3418- Ok...
FileGRDM011.tif- High(km):110.0- Width(km):81.2- Min:110.0886- Max:331.8109- Ok...
FileGRDM012.tif- High(km):110.0- Width(km):81.2- Min:14.0198- Max:97.7244- Ok...
_____
Creating 12 grid color scaled files (512 colors)
All database values
Max data value: 387.3423191
Min data value: 6.406818182
Slope colors ramp: 1.344059555400201
Grids created
Max pixel value: 387.34182739258
Min pixel value: 6.406991481781
File color map GRDM001.tif - Ok...
File color map GRDM002.tif - Ok...
File color map GRDM003.tif - Ok...
File color map GRDM004.tif - 0k...
File color map GRDM005.tif - Ok...
File color map GRDM006.tif - Ok...
File color map GRDM007.tif - Ok...
File color map GRDM008.tif - Ok...
File color map GRDM009.tif - Ok...
File color map GRDM010.tif - 0k...
File color map GRDM011.tif - Ok...
File color map GRDM012.tif - Ok...
_____
Statistics and summary grid creation report
```

File - TableInterpolatedGrid By: r.cfdtools@gmail.com Printed from: PyCharm 2021.3 run log

Grids created on: D:/R.GISPython/TableInterpolatedGrid/OutputGrid/

Color Map Grids created on: D:/R.GISPython/TableInterpolatedGrid/OutputColorMap/

Minimum pixel value all grids: 6.407 Maximum pixel value all grids: 387.3418 ArcScene Z Scale conversion: 0.756527 Day or Month with maximum value: 10

Process accomplished (dt = 39.3sec or0.7min)

{R} Press Enter to exit...

Process finished with exit code 0