

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: 2022-01-02 11:15:42.223129
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://github.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, 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 diaria media en el Departamento del Cesar - Colombia -
Suramérica
Input file: D:/R.GISPython/TableInterpolatedGrid/Data/Sample3PrecipitationAverageMonthly.csv
Log file #: 1641140142
Attributes: 11
Records: 336

{R} Attention - If you are using ArcGIS for Desktop with Python 2, all the options may be enter
using quotes...

{R} Attention - Close all your ArcGIS for Desktop applications and type 'Y' to continue >> Y

{R} Number sample records for print with header (0/337): >> 337
Entry option was 337.

Data file record sample (337 records)

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Headers in data file:

 #, Field name

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(01) CHParamID
(02) CHIntervaloID
(03) Station
(04) StatName
(05) Julian
(06) Month
(07) Day
(08) CX
(09) CY
(10) CZ
(11) Var

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{R} Field number to eval (1/11): >> 11
Entry option was 11.
Variable in use is [Var]

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{R} Print all records in source file as text graph (Y/N) >> Y
Entry option was Y.

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Graph text format in field # 11
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Max value: 387.3423191

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00212	[]] 177.4018 of 387.3423191 (45.8%)
00213	[]] 169.4095 of 387.3423191 (43.7%)
00214	[]] 263.7538 of 387.3423191 (68.1%)
00215	[]] 175.7104 of 387.3423191 (45.4%)
00216	[]] 48.0201 of 387.3423191 (12.4%)
00217	[]] 23.8333 of 387.3423191 (6.2%)
00218	[]] 37.0278 of 387.3423191 (9.6%)
00219	[]] 85.5944 of 387.3423191 (22.1%)
00220	[]] 150.7222 of 387.3423191 (38.9%)

00221	[|||||]	] 221.3056 of 387.3423191 (57.1%)
00222	[|||||]	] 141.4444 of 387.3423191 (36.5%)
00223	[|||||]	] 109.4389 of 387.3423191 (28.3%)
00224	[|||||]	] 161.0 of 387.3423191 (41.6%)
00225	[|||||]	] 169.4861 of 387.3423191 (43.8%)
00226	[|||||]	] 254.7778 of 387.3423191 (65.8%)
00227	[|||||]	] 165.2446 of 387.3423191 (42.7%)
00228	[|||||]	] 58.4 of 387.3423191 (15.1%)
00229	[|]	] 13.5985 of 387.3423191 (3.5%)
00230	[|]	] 29.9952 of 387.3423191 (7.7%)
00231	[|]	] 75.5632 of 387.3423191 (19.5%)
00232	[|]	] 127.9392 of 387.3423191 (33.0%)
00233	[|]	] 198.8387 of 387.3423191 (51.3%)
00234	[|]	] 130.2971 of 387.3423191 (33.6%)
00235	[|]	] 84.3504 of 387.3423191 (21.8%)
00236	[|]	] 148.2148 of 387.3423191 (38.3%)
00237	[|]	] 158.458 of 387.3423191 (40.9%)
00238	[|]	] 224.8751 of 387.3423191 (58.1%)
00239	[|]	] 141.2256 of 387.3423191 (36.5%)
00240	[|]	] 48.0546 of 387.3423191 (12.4%)
00241	[|]	] 19.8475 of 387.3423191 (5.1%)
00242	[|]	] 31.3622 of 387.3423191 (8.1%)
00243	[|]	] 72.1549 of 387.3423191 (18.6%)
00244	[|]	] 140.8886 of 387.3423191 (36.4%)
00245	[|]	] 203.8318 of 387.3423191 (52.6%)
00246	[|]	] 136.2727 of 387.3423191 (35.2%)
00247	[|]	] 114.9909 of 387.3423191 (29.7%)
00248	[|]	] 150.2114 of 387.3423191 (38.8%)
00249	[|]	] 193.5159 of 387.3423191 (50.0%)
00250	[|]	] 277.5767 of 387.3423191 (71.7%)
00251	[|]	] 182.5047 of 387.3423191 (47.1%)
00252	[|]	] 59.414 of 387.3423191 (15.3%)
00253	[|]	] 17.1283 of 387.3423191 (4.4%)
00254	[|]	] 51.8484 of 387.3423191 (13.4%)
00255	[|]	] 72.0268 of 387.3423191 (18.6%)
00256	[|]	] 154.5662 of 387.3423191 (39.9%)
00257	[|]	] 203.5871 of 387.3423191 (52.6%)
00258	[|]	] 127.2509 of 387.3423191 (32.9%)
00259	[|]	] 111.9297 of 387.3423191 (28.9%)
00260	[|]	] 163.8334 of 387.3423191 (42.3%)
00261	[|]	] 185.6887 of 387.3423191 (47.9%)
00262	[|]	] 224.5725 of 387.3423191 (58.0%)
00263	[|]	] 157.9603 of 387.3423191 (40.8%)
00264	[|]	] 50.8606 of 387.3423191 (13.1%)
00265	[|]	] 13.2157 of 387.3423191 (3.4%)
00266	[|]	] 34.9675 of 387.3423191 (9.0%)
00267	[|]	] 70.3673 of 387.3423191 (18.2%)
00268	[|]	] 146.1932 of 387.3423191 (37.7%)
00269	[|]	] 190.3119 of 387.3423191 (49.1%)
00270	[|]	] 135.8572 of 387.3423191 (35.1%)
00271	[|]	] 116.6694 of 387.3423191 (30.1%)
00272	[|]	] 151.8853 of 387.3423191 (39.2%)
00273	[|]	] 186.5097 of 387.3423191 (48.2%)
00274	[|]	] 239.0079 of 387.3423191 (61.7%)
00275	[|]	] 182.1395 of 387.3423191 (47.0%)
00276	[|]	] 60.4632 of 387.3423191 (15.6%)
00277	[|]	] 14.9358 of 387.3423191 (3.9%)
00278	[|]	] 10.3829 of 387.3423191 (2.7%)
00279	[|]	] 62.7651 of 387.3423191 (16.2%)
00280	[|]	] 119.9287 of 387.3423191 (31.0%)
00281	[|]	] 158.5667 of 387.3423191 (40.9%)

00282	[|||||]	] 130.2917 of 387.3423191 (33.6%)
00283	[|||||]	] 100.548 of 387.3423191 (26.0%)
00284	[|||||]	] 155.9936 of 387.3423191 (40.3%)
00285	[|||||]	] 170.149 of 387.3423191 (43.9%)
00286	[|||||]	] 191.0017 of 387.3423191 (49.3%)
00287	[|||||]	] 134.4827 of 387.3423191 (34.7%)
00288	[||||]	] 32.623 of 387.3423191 (8.4%)
00289	[||||]	] 6.4068 of 387.3423191 (1.7%)
00290	[||||]	] 26.1909 of 387.3423191 (6.8%)
00291	[|||||]	] 77.8425 of 387.3423191 (20.1%)
00292	[|||||]	] 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%)
00297	[|||||]	] 142.9377 of 387.3423191 (36.9%)
00298	[|||||]	] 176.9545 of 387.3423191 (45.7%)
00299	[|||||]	] 125.317 of 387.3423191 (32.4%)
00300	[||||]	] 35.093 of 387.3423191 (9.1%)
00301	[||||]	] 9.2499 of 387.3423191 (2.4%)
00302	[||||]	] 31.3598 of 387.3423191 (8.1%)
00303	[|||||]	] 69.6524 of 387.3423191 (18.0%)
00304	[|||||]	] 150.0395 of 387.3423191 (38.7%)
00305	[|||||]	] 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%)
00309	[|||||]	] 159.5294 of 387.3423191 (41.2%)
00310	[|||||]	] 217.3287 of 387.3423191 (56.1%)
00311	[|||||]	] 137.4709 of 387.3423191 (35.5%)
00312	[||||]	] 42.5362 of 387.3423191 (11.0%)
00313	[||||]	] 11.2685 of 387.3423191 (2.9%)
00314	[||||]	] 25.4524 of 387.3423191 (6.6%)
00315	[|||||]	] 64.3149 of 387.3423191 (16.6%)
00316	[|||||]	] 138.2134 of 387.3423191 (35.7%)
00317	[|||||]	] 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%)
00321	[|||||]	] 175.5966 of 387.3423191 (45.3%)
00322	[|||||]	] 231.75 of 387.3423191 (59.8%)
00323	[|||||]	] 170.5 of 387.3423191 (44.0%)
00324	[||||]	] 37.7 of 387.3423191 (9.7%)
00325	[||||]	] 20.253 of 387.3423191 (5.2%)
00326	[||||]	] 28.1615 of 387.3423191 (7.3%)
00327	[||||]	] 28.9773 of 387.3423191 (7.5%)
00328	[|||||]	] 172.6873 of 387.3423191 (44.6%)
00329	[|||||]	] 154.4755 of 387.3423191 (39.9%)
00330	[|||||]	] 124.2468 of 387.3423191 (32.1%)
00331	[|||||]	] 89.5633 of 387.3423191 (23.1%)
00332	[|||||]	] 179.4427 of 387.3423191 (46.3%)
00333	[|||||]	] 141.7286 of 387.3423191 (36.6%)
00334	[|||||]	] 166.7003 of 387.3423191 (43.0%)
00335	[|||||]	] 110.0849 of 387.3423191 (28.4%)
00336	[||||]	] 14.0179 of 387.3423191 (3.6%)

Statistics

Registers: 336

Count: 336 (not null)
 Nulls: 0
 Max: 387.3423191
 Min: 6.406818182
 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 cell size: 540.7722200000006
 (Using as reference 150 pixels in the shortest horizontal or vertical spatial length)

Frequencies: 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: 7

 ID, Coordinate system

01 WKID: 4326, WGS84
 02 WKID: 3116, MAGNA Colombia Origen Bogota
 03 WKID: 3117, MAGNA Colombia Origen Este
 04 WKID: 3118, MAGNA Colombia Origen Este Este
 05 WKID: 3115, MAGNA Colombia Origen Oeste
 06 WKID: 3114, MAGNA Colombia Origen Oeste oeste
 07 WKID: 9377, MAGNA-SIRGAS / Origen-Nacional

{R} Coordinate system to use (1/7): >> 7
 Entry option was 7.

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 for 150
 pixels) (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 - 0k...
https://github.com/rcfdtools/R.GISPython/blob/main/TableInterpolatedGrid/Graph/1641140142GRDM001.
png
FileGRDM002.tif - High, km: 110.0 - Width, km: 81.2 - Min: 10.3832 - Max: 66.7947 - 0k...
https://github.com/rcfdtools/R.GISPython/blob/main/TableInterpolatedGrid/Graph/1641140142GRDM002.
png
FileGRDM003.tif - High, km: 110.0 - Width, km: 81.2 - Min: 28.9797 - Max: 112.7554 - 0k...
https://github.com/rcfdtools/R.GISPython/blob/main/TableInterpolatedGrid/Graph/1641140142GRDM003.
png
FileGRDM004.tif - High, km: 110.0 - Width, km: 81.2 - Min: 101.3466 - Max: 269.6653 - 0k...
https://github.com/rcfdtools/R.GISPython/blob/main/TableInterpolatedGrid/Graph/1641140142GRDM004.
png
FileGRDM005.tif - High, km: 110.0 - Width, km: 81.2 - Min: 154.4775 - Max: 318.1761 - 0k...
https://github.com/rcfdtools/R.GISPython/blob/main/TableInterpolatedGrid/Graph/1641140142GRDM005.
png
FileGRDM006.tif - High, km: 110.0 - Width, km: 81.2 - Min: 110.9968 - Max: 221.6947 - 0k...
https://github.com/rcfdtools/R.GISPython/blob/main/TableInterpolatedGrid/Graph/1641140142GRDM006.
png
FileGRDM007.tif - High, km: 110.0 - Width, km: 81.2 - Min: 84.3541 - Max: 169.7734 - 0k...
https://github.com/rcfdtools/R.GISPython/blob/main/TableInterpolatedGrid/Graph/1641140142GRDM007.
png
FileGRDM008.tif - High, km: 110.0 - Width, km: 81.2 - Min: 134.5488 - Max: 232.7073 - 0k...
https://github.com/rcfdtools/R.GISPython/blob/main/TableInterpolatedGrid/Graph/1641140142GRDM008.
png
FileGRDM009.tif - High, km: 110.0 - Width, km: 81.2 - Min: 141.7314 - Max: 313.9845 - 0k...
https://github.com/rcfdtools/R.GISPython/blob/main/TableInterpolatedGrid/Graph/1641140142GRDM009.
png
FileGRDM010.tif - High, km: 110.0 - Width, km: 81.2 - Min: 166.704 - Max: 387.3418 - 0k...
https://github.com/rcfdtools/R.GISPython/blob/main/TableInterpolatedGrid/Graph/1641140142GRDM010.
png
FileGRDM011.tif - High, km: 110.0 - Width, km: 81.2 - Min: 110.0886 - Max: 331.8109 - 0k...
https://github.com/rcfdtools/R.GISPython/blob/main/TableInterpolatedGrid/Graph/1641140142GRDM011.
png
FileGRDM012.tif - High, km: 110.0 - Width, km: 81.2 - Min: 14.0198 - Max: 97.7244 - 0k...
https://github.com/rcfdtools/R.GISPython/blob/main/TableInterpolatedGrid/Graph/1641140142GRDM012.
```

png

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 - Ok...

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 - Ok...

File color map GRDM011.tif - Ok...

File color map GRDM012.tif - Ok...

Statistics and summary grid creation report

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

Manual print PDF as: D:/R.GISPython/TableInterpolatedGrid//PDF/1641140142.pdf

Value data plot: <https://github.com/rcfdtools/R.GISPython/blob/main/TableInterpolatedGrid/Graph/1641140142.png>

Process accomplished (dt = 89.0sec or 1.5min)

{R} Type 'Y' to exit...