

Map Tiling Application



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Installing Dependencies

Installing .NET 6.x

From the URL <https://dotnet.microsoft.com/en-us/download> download exe packages of .Net 6.x SDK x64 and .NET Runtime, after downloading exe packages install those packages.

Installing .NET Framework 4.8.x

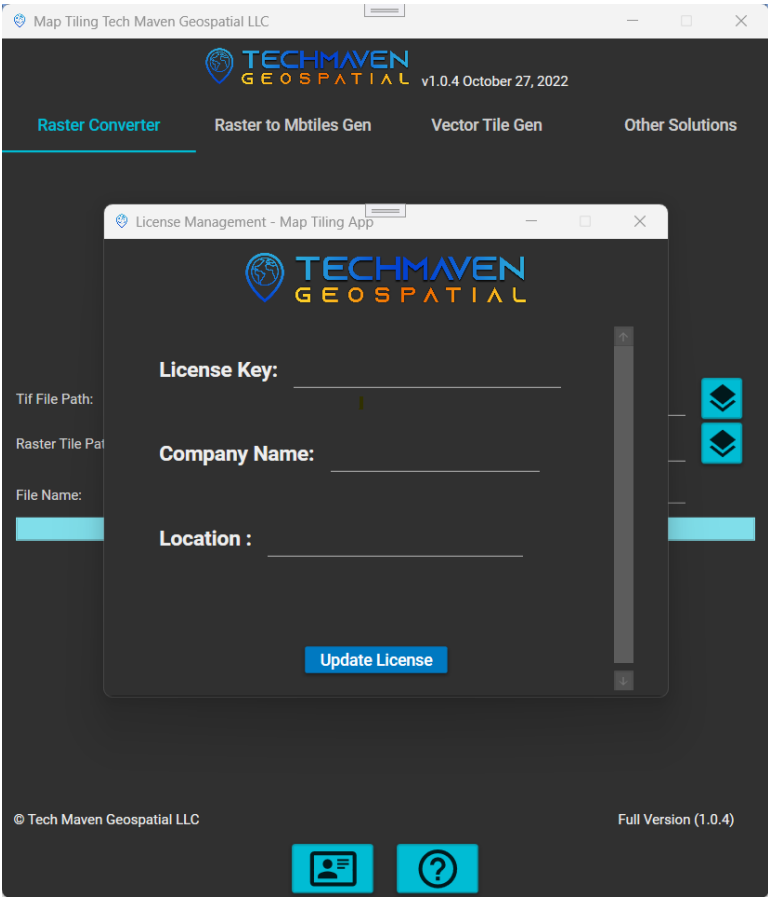
From the URL <https://dotnet.microsoft.com/en-us/download/dotnet-framework/net48> download exe packages of .NET Framework 4.8.x Runtime and .NET Framework 4.8.x Developer Pack, after downloading those packages install those packages.

Installing Application

After successful SendOwl Checkout and downloading the exe package, install the exe package.

Update License Key

Enter the License key provided by SendOwl checkout. Enter your company name and location. After pressing enter this will register your license with Tech Maven Geospatial's database.



Raster Conversion

Supported Input Format

The supported input format for the conversion are mentioned below:

File Name	Extension
Geo PDF	.pdf
JP2	.jp2
Mr.SID	.sid

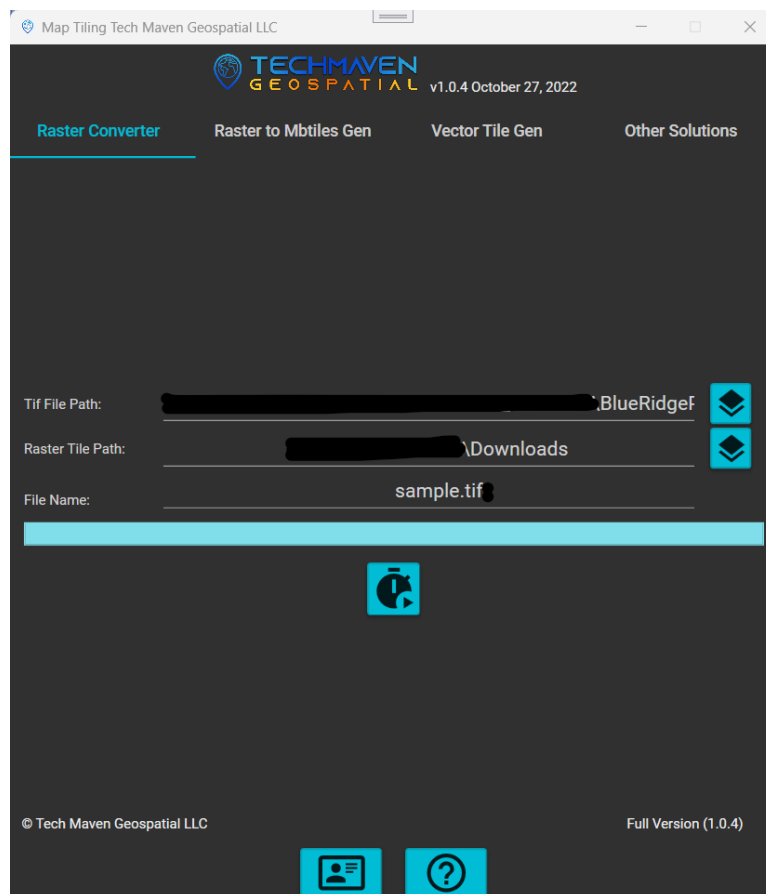
Supported Output Format

The supported output format for the conversion are mentioned below:

File Name	Extension
Tiff	.tif

Converting Raster Tiles into Tiff

To convert Raster Images like geo pdf (.pdf), jp2 (.jp2), and Mr.Sid (.sid) images into standard Tiff (.tif) tiles. Click the **Raster Converter** from the top menu bar. This will open a page on which you will be able to select input file, output folder and file name, you can enter file name like **sample.tif**. After completing this you can press the start icon and the conversion will start.



After pressing the start button, you can see the conversion status through the progress bar. After the successful completion of the conversion an message box will appear that will indicate the user about the conversion status.

Vector Conversion

Supported Input Format

The supported input format for the conversion are mentioned below:

File Name	Extension
ESRI Shape File	.shp
GeoJSON	.geojson
Geo Package	.gpkg
Microstation - DGN	.dgn
AutoCAD - DXF	.dxf
Keyhole Markup Language - KML	.kml
Comma Separated Value	.csv

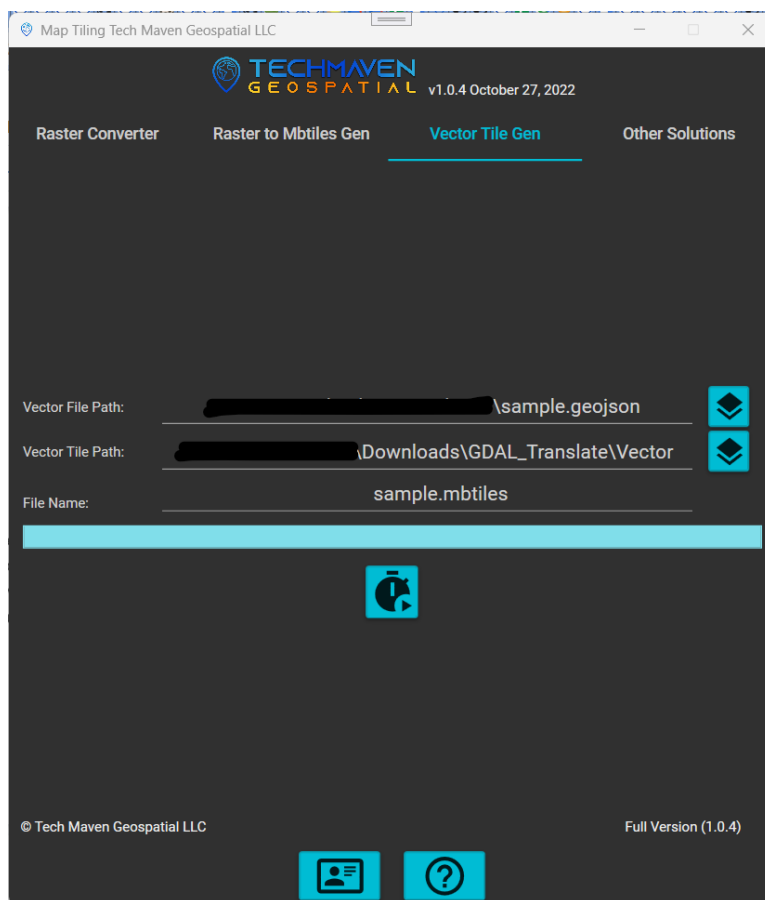
Supported Output Format

The supported output format for the conversion are mentioned below:

File Name	Extension
Mapbox Vector Tiles - MVT	.mbtiles

Converting Vector Tiles into MVT

To convert vector tiles like geo package (.gpkg), gso JSON (.geojson), ESRI shapefile (.shp), comma separated value (.csv), and autocad dxf (.dxf) images into standard mapbox vector tiles (.mbtiles) tiles. Click the **Vector Tile Gen** from the top menu bar. This will open a page on which you will be able to select input file, output folder and file name, you can enter file name like **sample.mbtiles**. After completing this you can press the start icon and the conversion will start.



After pressing the start button, you can see the conversion status through the progress bar. After the successful completion of the conversion an message box will appear that will indicate the user about the conversion status.

Raster Tile to Mbtiles

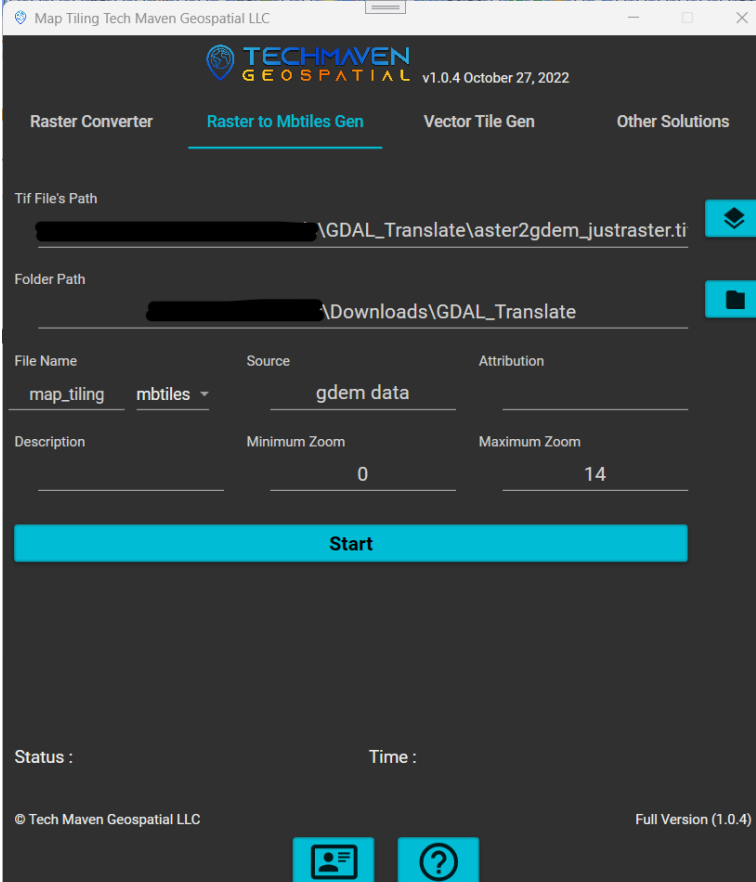
Information about Conversion

This will use GDAL CSharp library for conversion and it will use maximum cpu cores for conversion so the conversion will be faster than many other competitors.

Converting Geotiff into MBTiles

To convert standard geo tiff into mbtiles, you need to do following things mentioned below:

1. Select Input Tile - compulsory
2. Select Output Folder - compulsory
3. Enter File Name - compulsory
4. Select Format - compulsory
5. Enter Source - optional
6. Enter Attribution - optional
7. Enter Description - optional
8. Enter Min Zoom - compulsory
9. Enter Max Zoom - compulsory



The screenshot shows a web application window titled "Map Tiling Tech Maven Geospatial LLC". The application is "TECHMAVEN GEOSPATIAL v1.0.4 October 27, 2022". It has four main sections: "Raster Converter", "Raster to Mbtiles Gen" (which is selected and underlined), "Vector Tile Gen", and "Other Solutions".

The "Raster to Mbtiles Gen" section contains the following fields:

- Tif File's Path:** A text input field containing a file path ending in "\GDAL_Translate\aster2gdem_just raster.tif" with a file selection icon to the right.
- Folder Path:** A text input field containing a folder path ending in "\Downloads\GDAL_Translate" with a folder selection icon to the right.
- File Name:** A text input field containing "map_tiling".
- Format:** A dropdown menu currently set to "mbtiles".
- Source:** A text input field containing "gdem data".
- Attribution:** An empty text input field.
- Description:** An empty text input field.
- Minimum Zoom:** A text input field containing "0".
- Maximum Zoom:** A text input field containing "14".

Below these fields is a large blue "Start" button. At the bottom of the interface, there are labels for "Status:" and "Time:", both currently empty. The footer contains "© Tech Maven Geospatial LLC" on the left and "Full Version (1.0.4)" on the right, along with two icons: a person icon and a question mark icon.

After Entering the data press the start button and conversion will start.