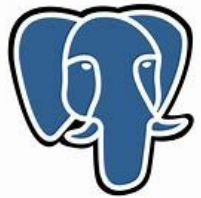
# Intro to Quantum GIS (QGIS)

# Open Source Tools

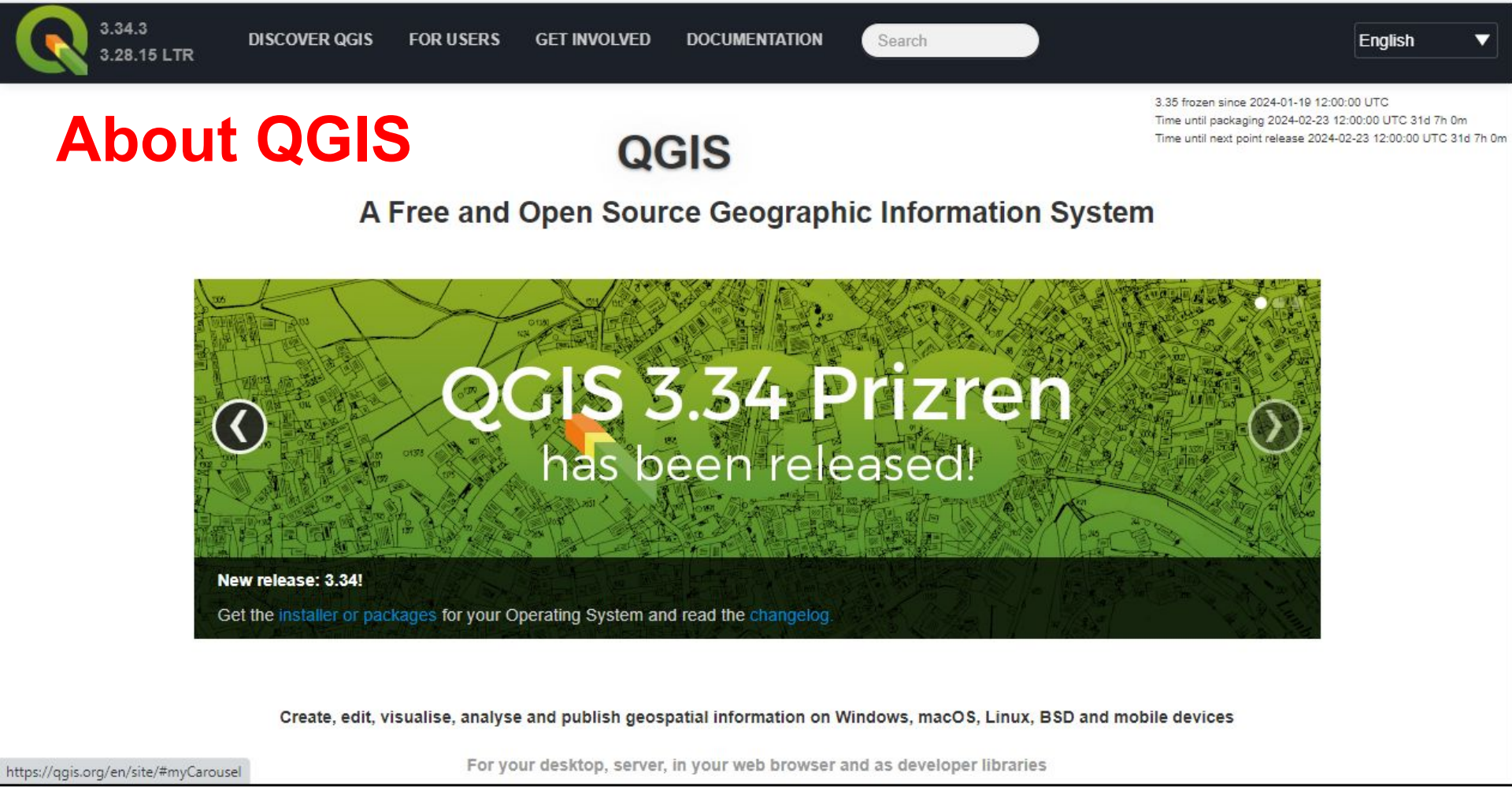

QGIS






GeoServer

# About QGIS


3.34.3
3.28.15 LTR
DISCOVER QGIS
FOR USERS
GET INVOLVED
DOCUMENTATION
Search
English
3.35 frozen since 2024-01-19 12:00:00 UTC
Time until packaging 2024-02-23 12:00:00 UTC 31d 7h 0m
Time until next point release 2024-02-23 12:00:00 UTC 31d 7h 0m
QGIS
A Free and Open Source Geographic Information System
QGIS 3.34 Prizren
has been released!
New release: 3.34!
Get the installer or packages for your Operating System and read the changelog.
Create, edit, visualise, analyse and publish geospatial information on Windows, macOS, Linux, BSD and mobile devices
For your desktop, server, in your web browser and as developer libraries
https://qgis.org/en/site/#myCarousel

# QGIS Today

Most popular Open Source Desktop GIS
Second most popular GIS after ESRI ArcGIS

Available for: Linux, Windows, OSX (and Android)

Translated in > 40 languages

More than desktop: QGIS Server, web clients (QWC2, LizMap), data collection solutions (QField, Intramaps Roam)

# Founder of QGIS

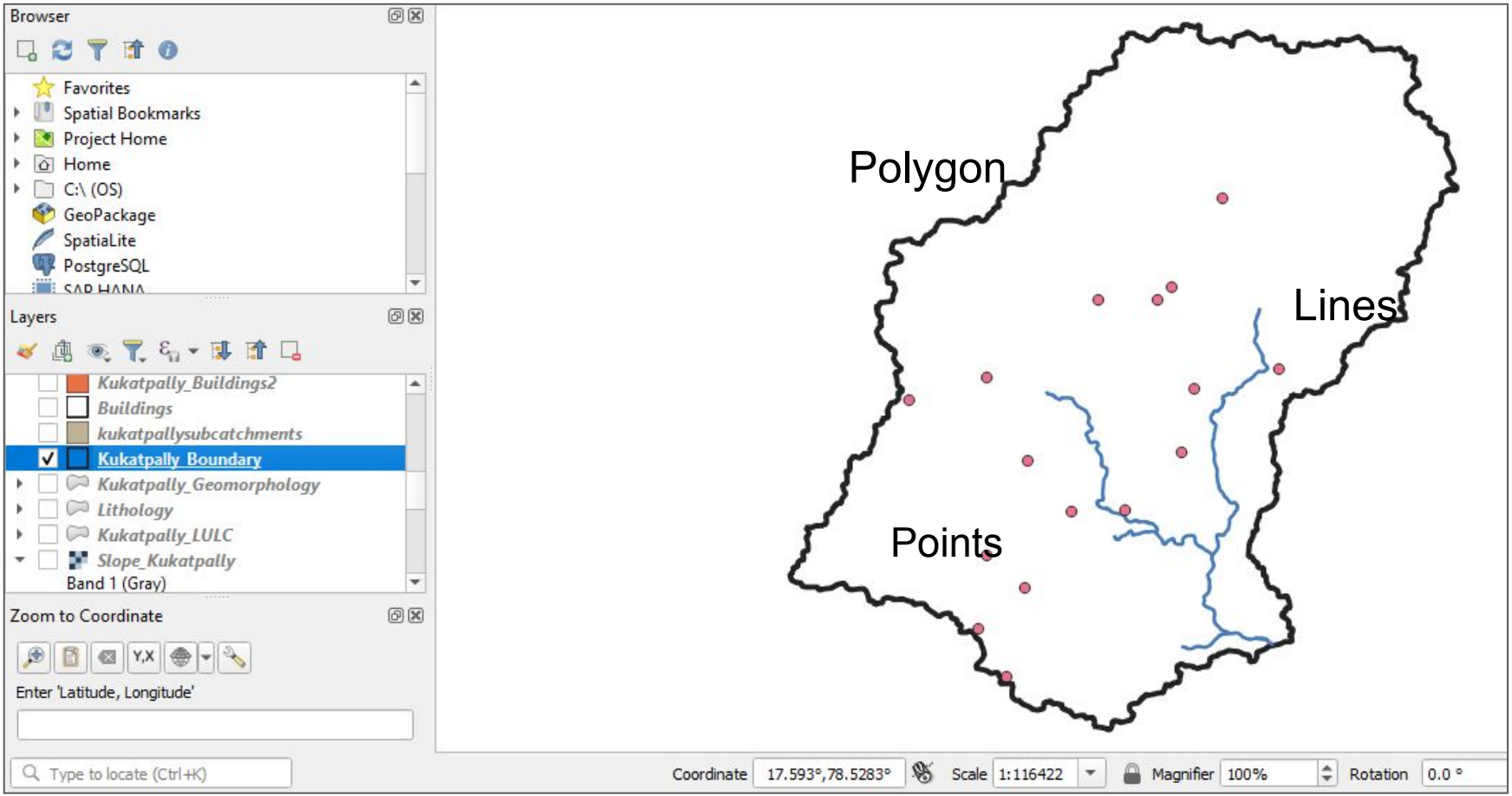
- Development of Quantum GIS in early 2002
- Incubator project of the ***Open Source Geospatial Foundation in 2007***
- Version 1.0 was released in January 2009

***Gary Sherman***

Download link for the latest version :

https://www.qgis.org/en/site/forusers/download.html#

# Vector Data


Browser
Favorites
Spatial Bookmarks
Project Home
Home
C:\ (OS)
GeoPackage
SpatiaLite
PostgreSQL
Layers
Kukatpally_Buildings2
Buildings
kukatpallysubcatchments
Kukatpally_Boundary
Kukatpally_Geomorphology
Lithology
Kukatpally_LULC
Slope_Kukatpally
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Zoom to Coordinate
Y,X
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Type to locate (Ctrl+K)
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Points
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Rotation
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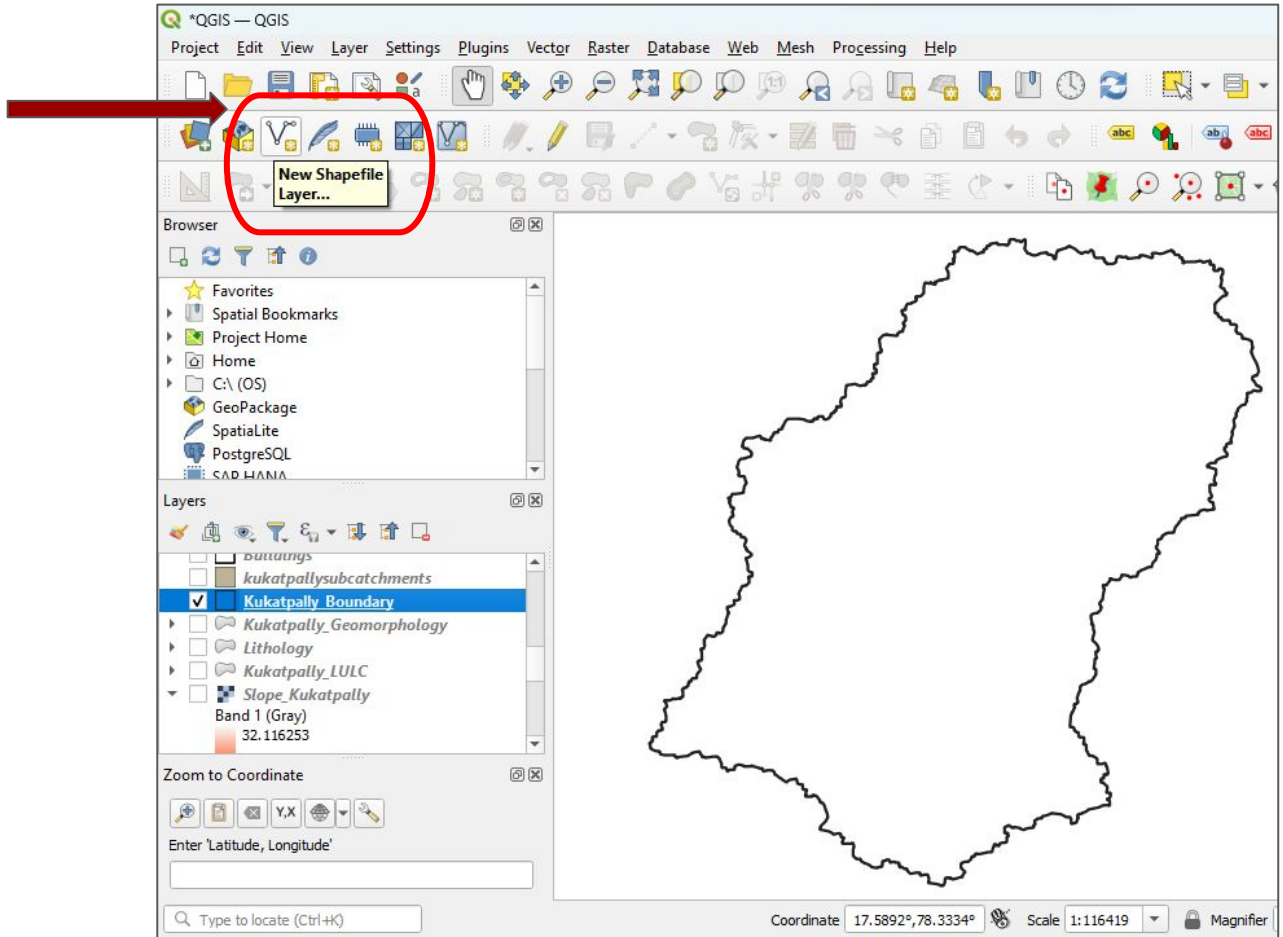
# Creating vector Data



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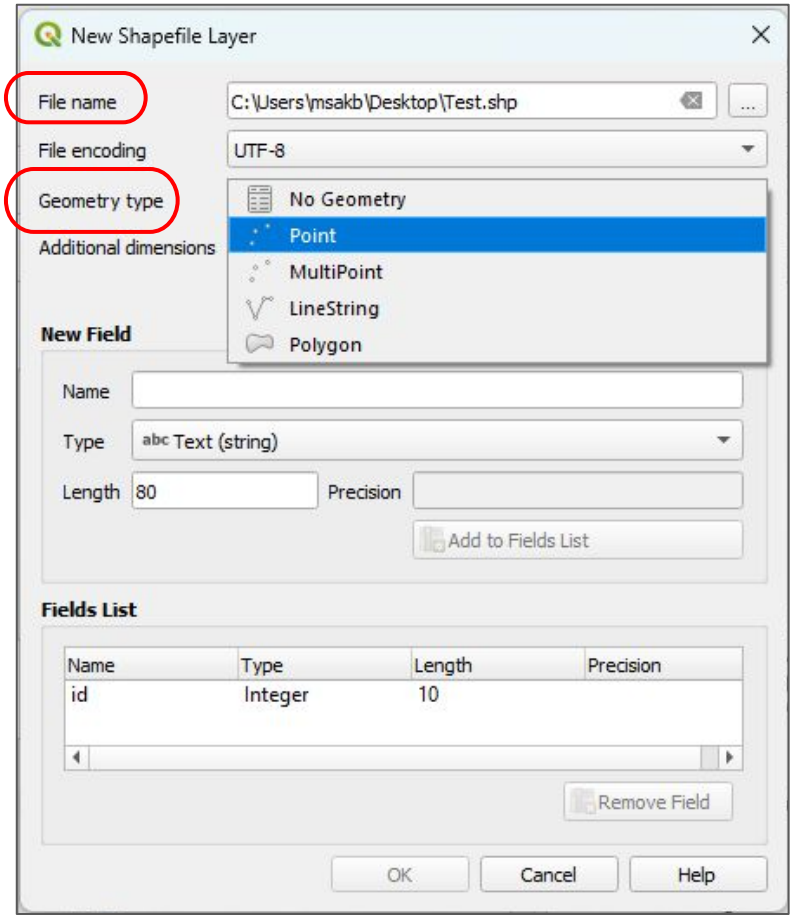


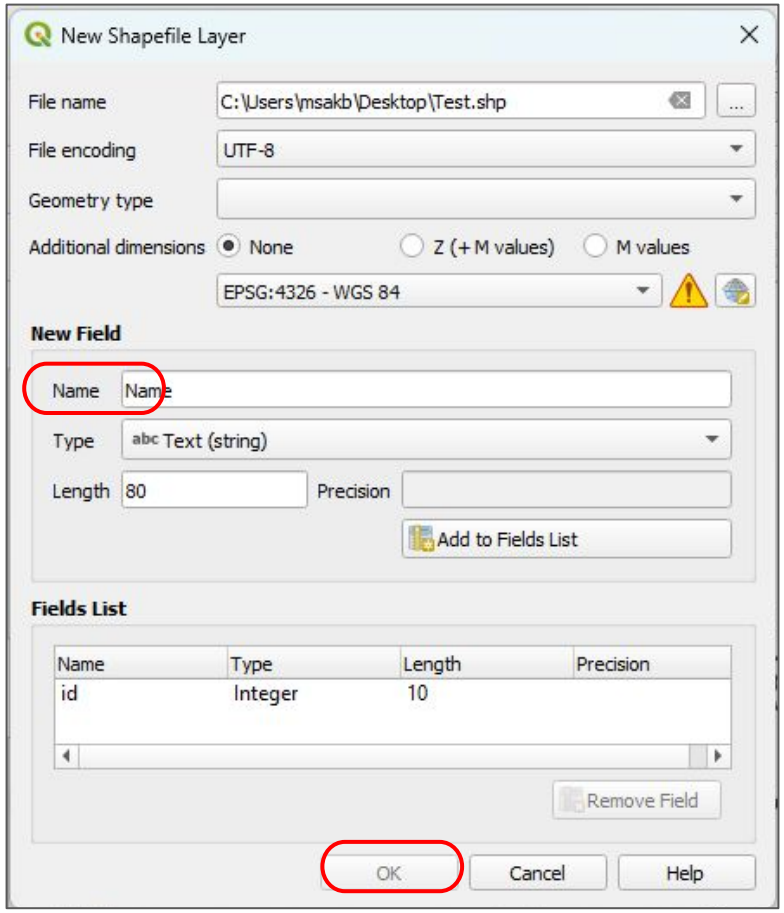

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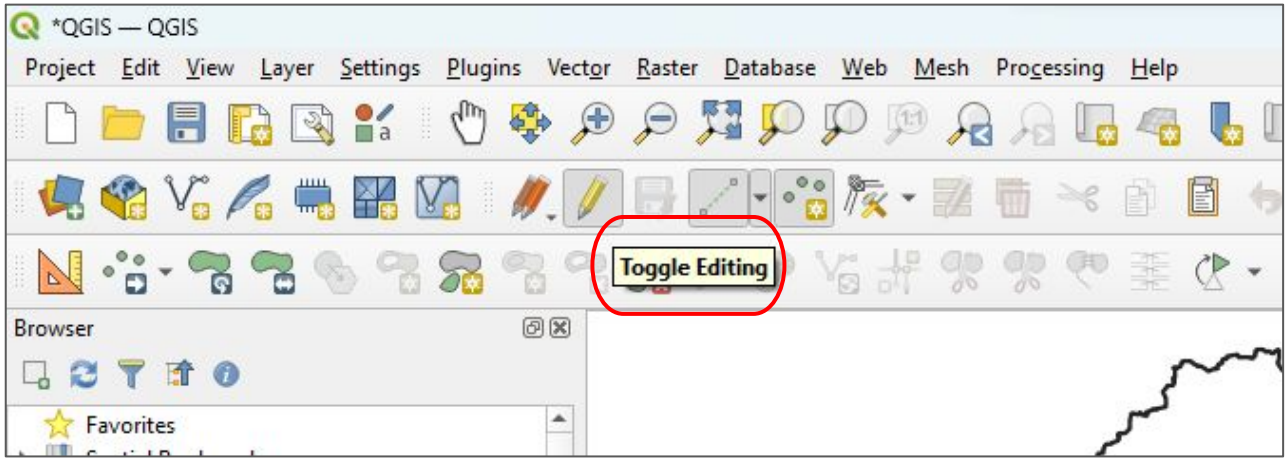
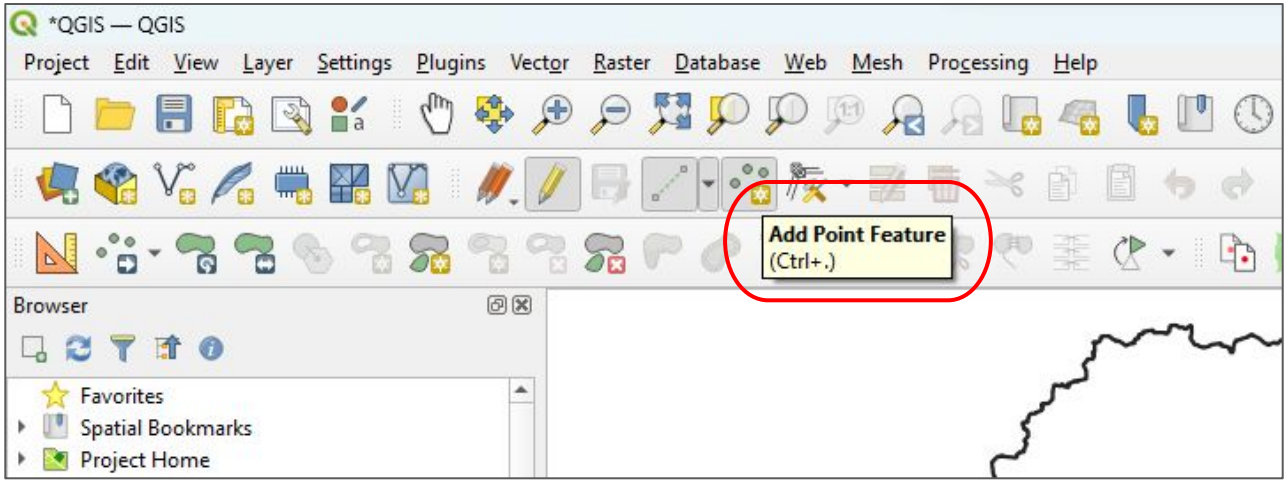
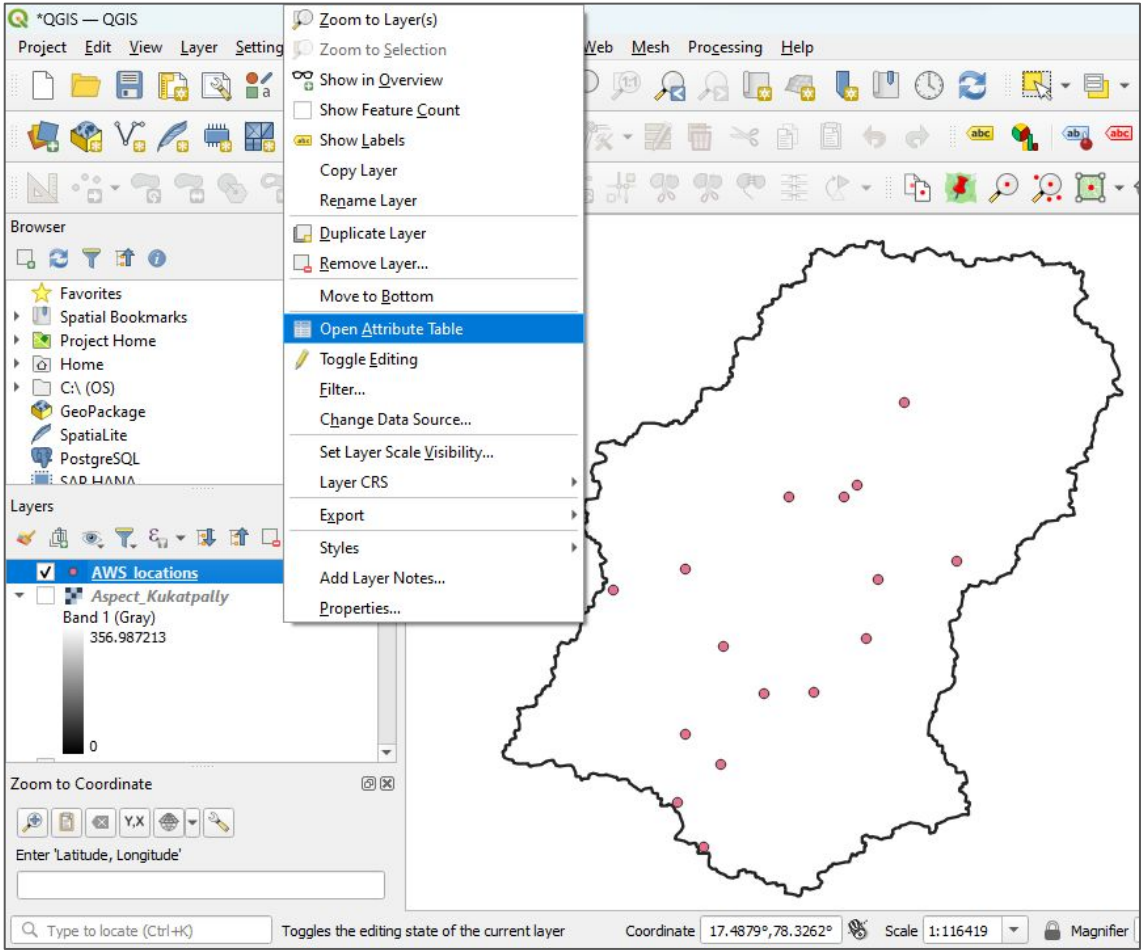
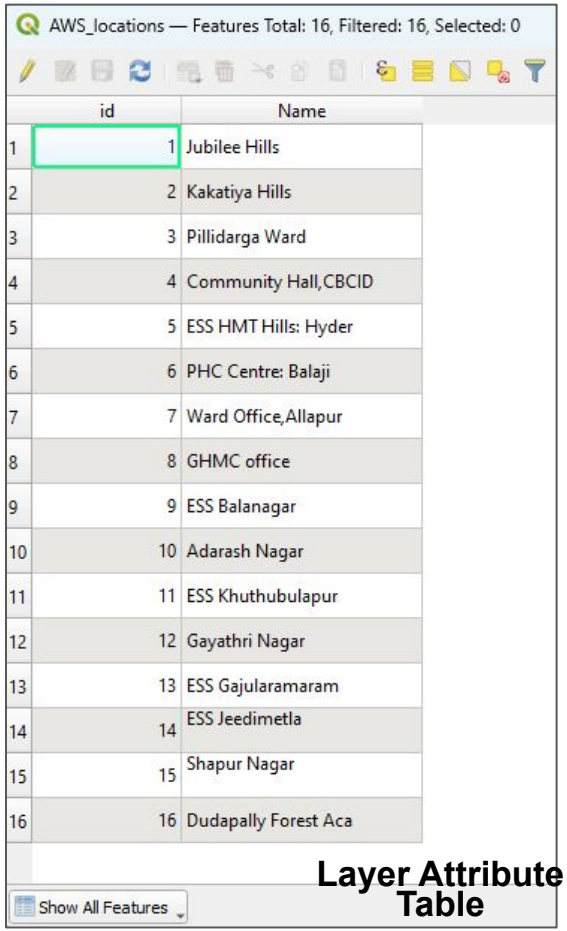


# Creating vector Data

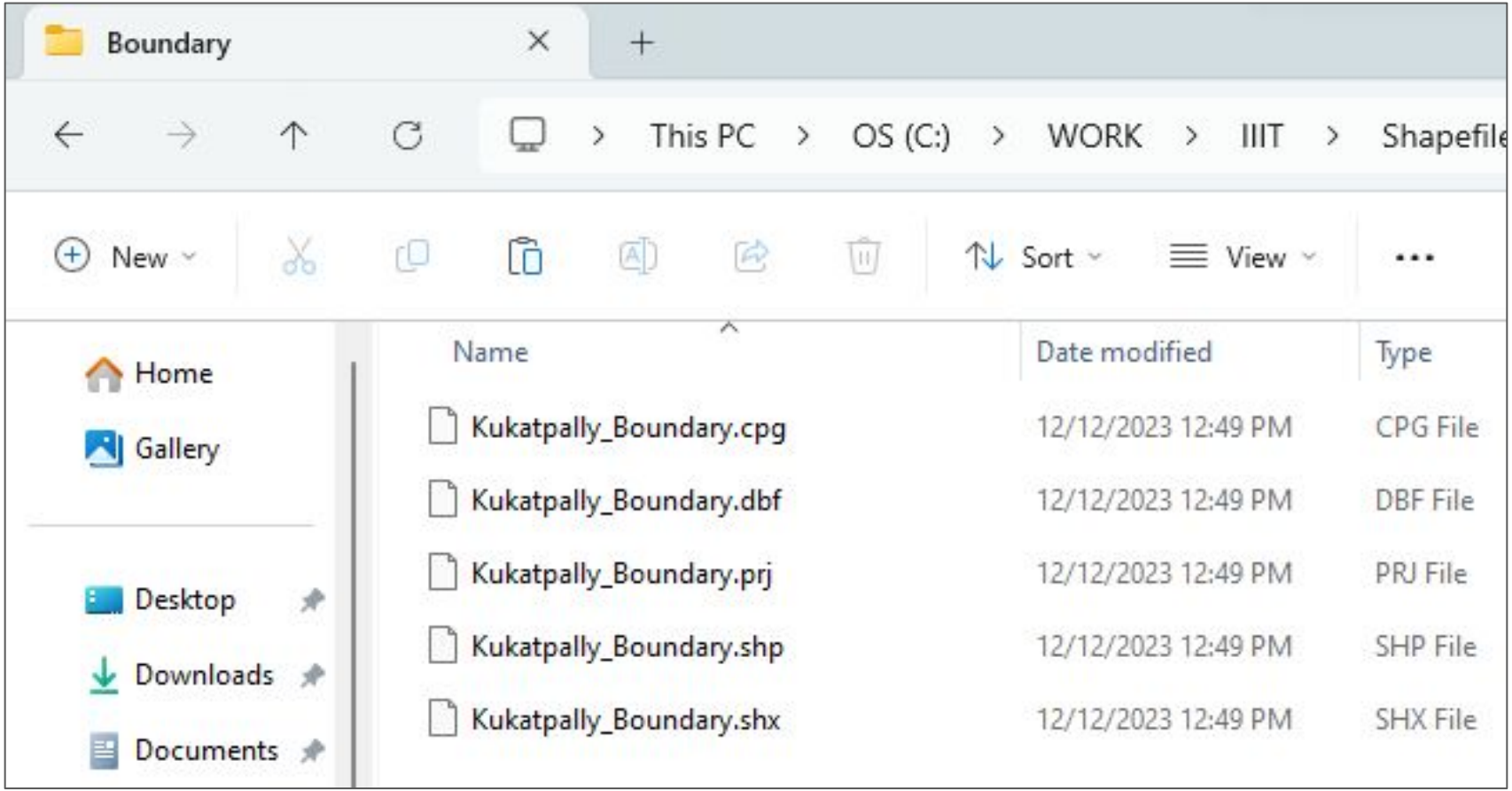



| | id | Name |
|---|---|---|
| 1 | 1 | Jubilee Hills |
| 2 | 2 | Kakatiya Hills |
| 3 | 3 | Pillidarga Ward |
| 4 | 4 | Community Hall,CBCID |
| 5 | 5 | ESS HMT Hills: Hyder |
| 6 | 6 | PHC Centre: Balaji |
| 7 | 7 | Ward Office,Allapur |
| 8 | 8 | GHMC office |
| 9 | 9 | ESS Balanagar |
| 10 | 10 | Adarash Nagar |
| 11 | 11 | ESS Khuthubulapur |
| 12 | 12 | Gayathri Nagar |
| 13 | 13 | ESS Gajularamaram |
| 14 | 14 | ESS Jeedimetla |
| 15 | 15 | Shapur Nagar |
| 16 | 16 | Dudapally Forest Aca |

**Layer Attribute Table**

# Exporting vector files



# Vector file format

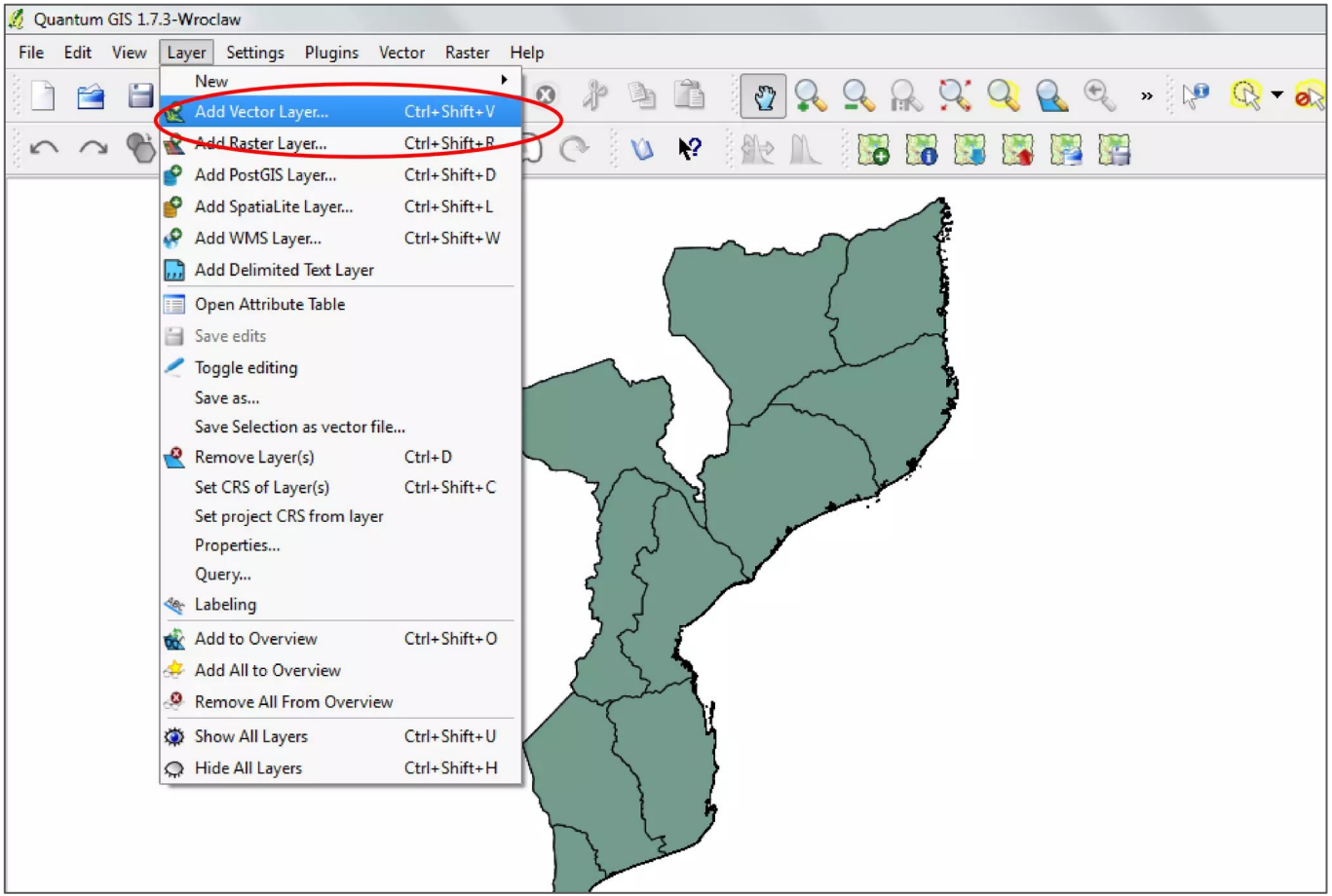
**Mandatory files**

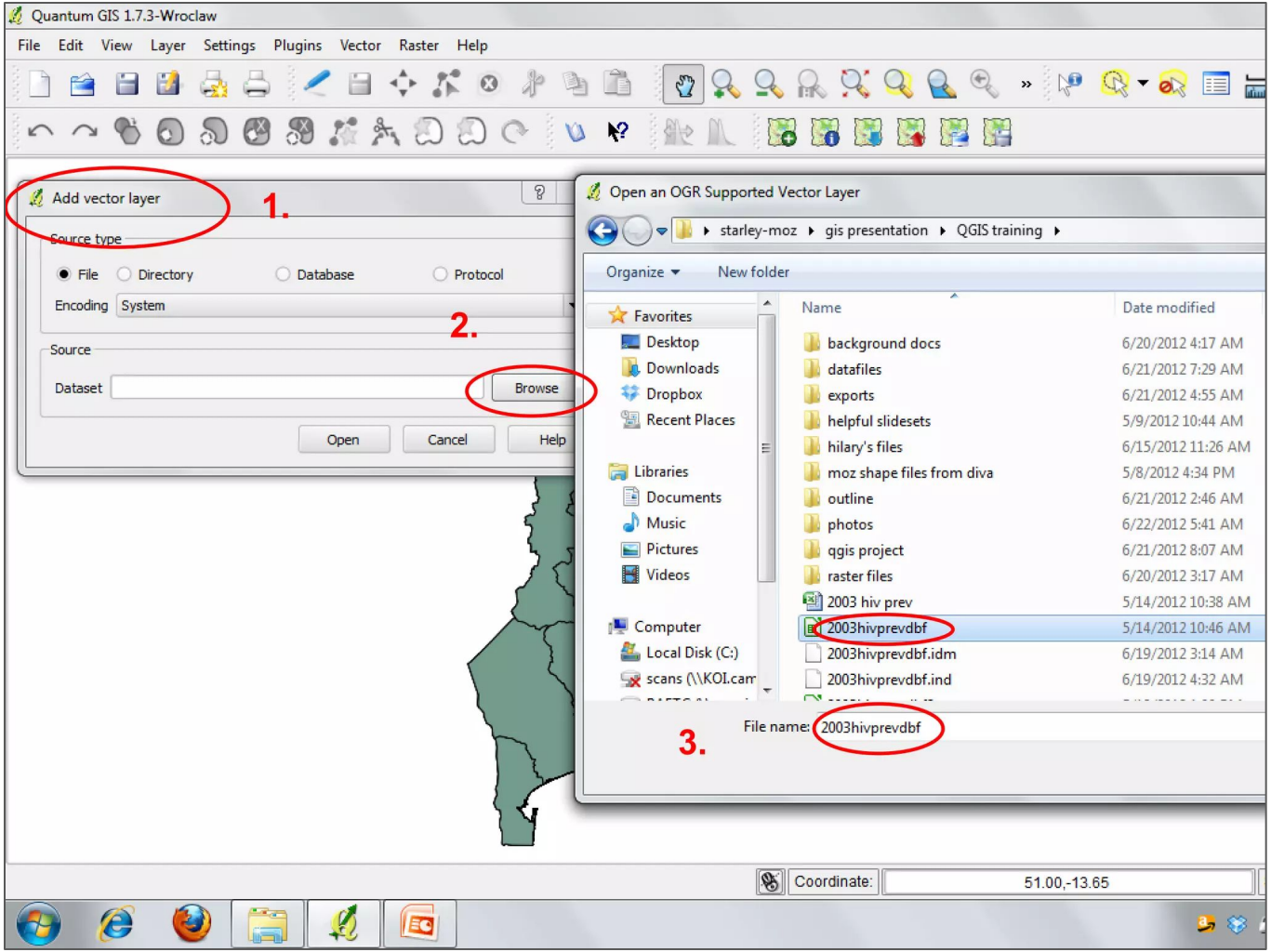
- `.shp` — shape format; the feature geometry itself
- `.shx` — shape index format; a positional index of the feature geometry to allow seeking forwards and backwards quickly
- `.dbf` — attribute format; columnar attributes for each shape, in dBase IV format

**Other files**

- `.prj` — projection description, using a well-known text representation of coordinate reference systems
- `.cpg` — used to specify the code page (only for `.dbf`) for identifying the character encoding to be used

# Importing Vector Data




Quantum GIS 1.7.3-Wroclaw
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Add vector layer
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Source type
File Directory Database Protocol
Encoding System
2.
Source
Dataset
Browse
Open Cancel Help
Open an OGR Supported Vector Layer
starley-moz ▸ gis presentation ▸ QGIS training ▸
Organize New folder
Favorites
Desktop
Downloads
Dropbox
Recent Places
Libraries
Documents
Music
Pictures
Videos
Computer
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Name
Date modified
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datafiles 6/21/2012 7:29 AM
exports 6/21/2012 4:55 AM
helpful slidesets 5/9/2012 10:44 AM
hilary's files 6/15/2012 11:26 AM
moz shape files from diva 5/8/2012 4:34 PM
outline 6/21/2012 2:46 AM
photos 6/22/2012 5:41 AM
qgis project 6/21/2012 8:07 AM
raster files 6/20/2012 3:17 AM
2003 hiv prev 5/14/2012 10:38 AM
2003hivprevdbf 5/14/2012 10:46 AM
2003hivprevdbf.idm 6/19/2012 3:14 AM
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3.
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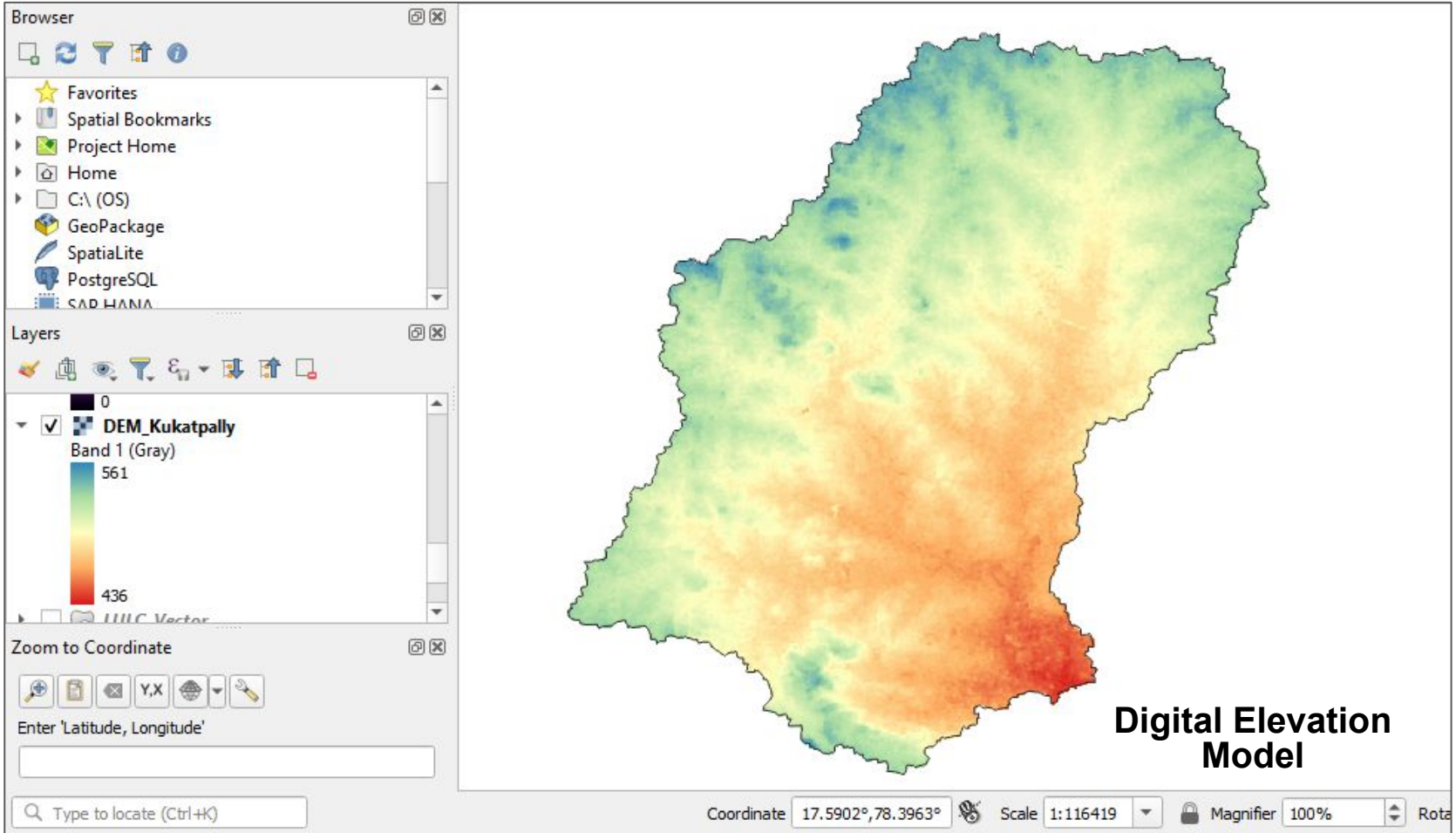
# Raster Data


Browser
Favorites
Spatial Bookmarks
Project Home
Home
C:\ (OS)
GeoPackage
SpatiaLite
PostgreSQL
Layers
0
DEM_Kukatpally
Band 1 (Gray)
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Zoom to Coordinate
Y,X
Enter 'Latitude, Longitude'
Type to locate (Ctrl+K)
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Scale
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Magnifier
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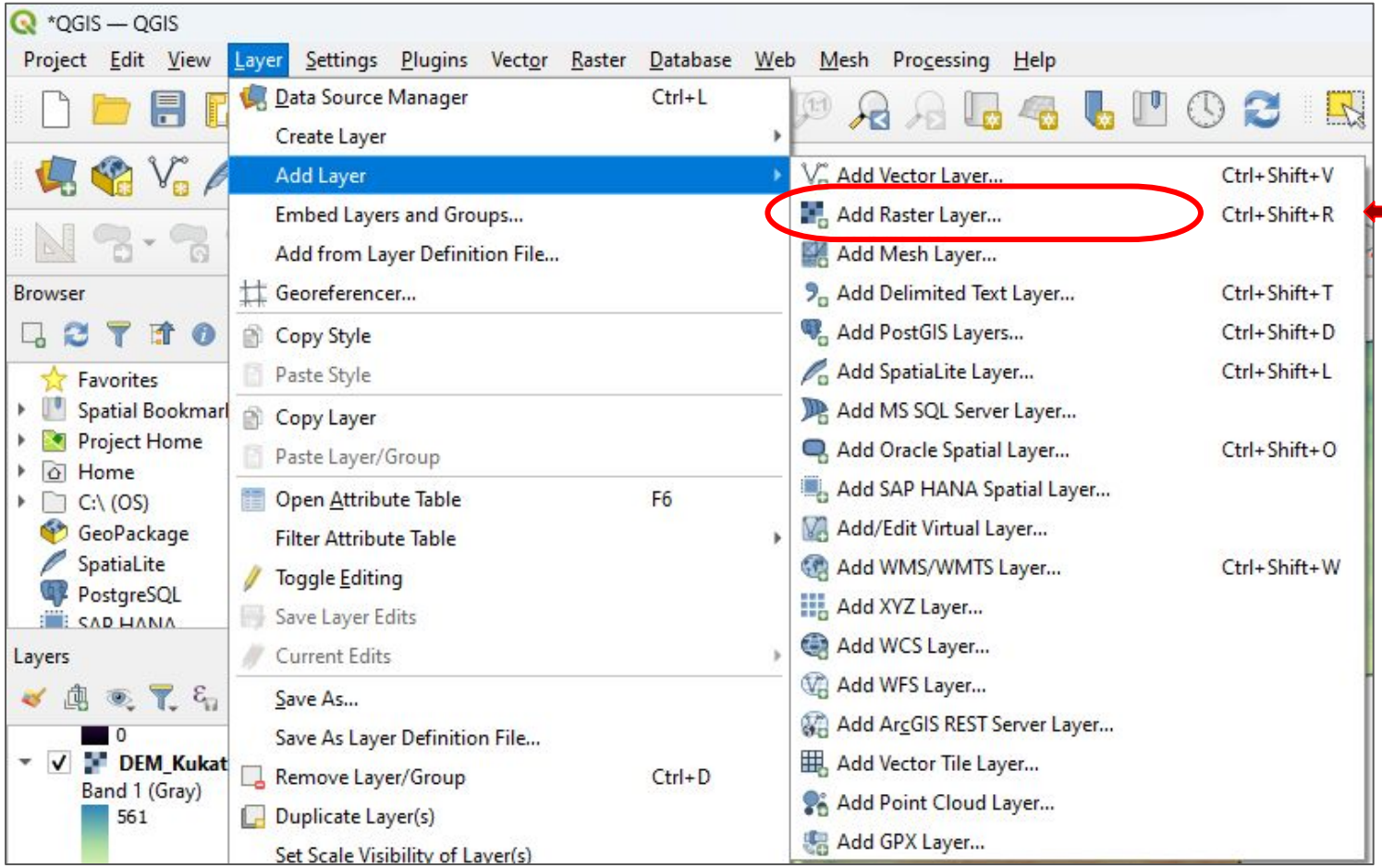
Digital Elevation Model

# Importing Raster Data



# THANK YOU