

DEM Analysis

Spoken Tutorial Project

<https://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

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Learning Objectives



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- ▶ Download DEM data from SRTM data website



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- ▶ Download **DEM** data from **SRTM** data website
- ▶ Show **Hillshade** of **DEM**



System Requirements



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- ▶ **Ubuntu Linux OS v 16.04**



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- ▶ **QGIS v 2.18**



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- ▶ **QGIS v 2.18**
- ▶ **Working internet connection**



Pre-requisites



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- ▶ **QGIS interface**



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- ▶ **QGIS interface**
- ▶ <https://spoken-tutorial.org>



About DEM



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- ▶ Digital Elevation Model or DEM is a raster file



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- ▶ Digital Elevation Model or **DEM** is a raster file
- ▶ It shows elevation data for each raster cell



About DEM



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- ▶ **The terrain is usually devoid of vegetation and man-made features**



About DEM

- ▶ **DEMs** are used to represent the bare earth terrain
- ▶ The terrain is usually devoid of vegetation and man-made features
- ▶ **DEMs are used for calculations and analysis of an area, based on the elevation**



STRM Website



STRM Website

- ▶ <http://srtm.csi.cgiar.org/srtmdata>



Summary



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- ▶ Download **DEM** data from **SRTM** data website
- ▶ Show Hillshade of **DEM**



Assignment

- ▶ Visualize the terrain using **Slope** mode for the raster map
- ▶ Change the symbology for the **Slope** layer
- ▶ Hint: Select the **Mode** as **Slope** and use it as overlay



About the Spoken Tutorial Project

- ▶ Watch the video available at https://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- ▶ It summarises the Spoken Tutorial project



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- ▶ If you do not have good bandwidth, you can download and watch it



Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- ▶ Conducts workshops using spoken tutorials
- ▶ Gives certificates to those who pass an online test
- ▶ For more details, please write to contact@spoken-tutorial.org



Forum for specific questions

- ▶ Do you have questions in **THIS Spoken Tutorial?**
- ▶ Please visit
<https://forums.spoken-tutorial.org>
- ▶ Choose the minute and second where you have the question
- ▶ Explain your question briefly
- ▶ Someone from our team will answer them



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- ▶ **More information on this Mission is available at**
<https://spoken-tutorial.org/NMEICT-Intro>

