

# DCAC \_ ADDA ( May 17<sup>th</sup> to 29<sup>th</sup>, 2021)

Reference Book Link: Volume One, Cartography in Prehistoric, Ancient, and Medieval Europe and the Mediterranean

Click

[https://press.uchicago.edu/books/HOC/HOC\\_V1/Volume1.html](https://press.uchicago.edu/books/HOC/HOC_V1/Volume1.html) link to open resource.

Reference Book Link: Volume Two, Book Three cartography in the traditional African, American, Arctic, Australian, and Pacific Societies

Click

[https://press.uchicago.edu/books/HOC/HOC\\_V2\\_B3/Volume2\\_Book3.html](https://press.uchicago.edu/books/HOC/HOC_V2_B3/Volume2_Book3.html) link to open resource.

<https://www.qgis.org/en/site/forusers/download>

## Day 1: Why Cartography and Visualization?

Lecture Slides: Introduction to Cartography File  
**1a**

Read: Chapter 1, Thematic Cartography and Geo-visualization, 3rd Ed. by Slocum et al., 2008  
**1b**

Read: "There's more to spatial thinking than you think", Essays in Geography and GIS, Vol. 6 Ch1  
**1c**

Read: "Getting a job in Geography and GIS", Essays in Geography and GIS, Vol. 6 Ch5  
**1d**

Read: Bridging the gap between science and policy",  
Essays in Geography and GIS, Vol. 6 Ch9

**1e**

Download Q-GIS Software (Version 3.16, 64-bit,  
approximately 400 MB)

<https://www.qgis.org/en/site/forusers/download>

Peruse: Beautiful News Daily

Click

<https://informationisbeautiful.net/beautifulnews/> link  
to open resource.

Optional Reading: HOC Volume 2, Book 3, Chapter2 -  
Cartographic Content of Rock Art in Southern Africa

**1f**

Hands-on Exercise: Installation and Introduction to  
QGIS

**1g**

## **Day 2: Elements of Map Design and Layout Creation**

Lecture Slides: Introduction to Map Design File

**2a**

Read: Chapter3 from Book "GIS Cartography: A Guide to  
Effective Map Design" by Gretchen N Peterson

**2b**

Watch: Visualizing Health and Wealth of 200 Countries  
over 200 Years by Hans Rosling

<https://www.youtube.com/watch?v=jbkSRLYSojo>

Watch: An Absolute Beginners Guide to QGIS (Excellent video that provides you an overview of QGIS - I highly recommend that you watch this)

<https://www.youtube.com/watch?v=NHolzMgaqwE>

Hands-on Exercise: Introduction to Map Layout Design  
File

**2c**

**day2data**

## **Day 3: Effective Communication using Story Maps**

Watch: What can GIS do - GIS in Everyday Life ! URL

<https://www.youtube.com/watch?v=PV057HLQfgo>

Watch: GIS as a Career: What I Wish I Knew! URL

[https://www.youtube.com/watch?v=SHgAlP\\_AQ4w](https://www.youtube.com/watch?v=SHgAlP_AQ4w)

Read: Nine Steps to Great Storytelling URL

<https://storymaps.arcgis.com/stories/429bc4eed5f145109e603c9711a33407>

Read: How to Make an Awful StoryMap? URL

<https://storymaps.arcgis.com/stories/585db547dd7f4403bb30a3eb13fd55ad>

Read: Creative Uses of StoryMaps for Conservation URL

<https://storymaps.arcgis.com/stories/4a0607287da84633aacbe73b12983860>

Read: Four Ways to Tell a Story with Place URL  
<https://storymaps.arcgis.com/stories/88bd5855dc3847769f2c6847b15af64e>

Watch This: Ho to Create a StoryMap? URL  
<https://www.youtube.com/watch?v=8wY14zHDmEs>

Hands-on Exercise: Learn about StoryMaps and Build Your Own! File  
3a

## **Day 4: Turning Data into Maps**

4a  
day4data  
4b

## **Day 5: Data Classification and Visualization Using GIS**

Visualizing Data using Tableau URL  
<https://www.youtube.com/watch?v=UWiAo95c9rU>

Peruse: Chartered Territory Blog  
Click <http://chartedterritory.us/> link to open resource.

Read: Classification in GIS\_URL  
<https://www.axismaps.com/guide/data-classification>

5a. Hands-on Activity: Field Calculation, Classification, and Cartogram (use Day 4 data and project)

**5a**

Read: Visualization in the form of Cartograms  
Click <http://datavizcatalogue.com/blog/cartograms/>  
link to open resource.

Read: 2012 & 2016 US Election Results Using Cartogram  
Click <http://www-personal.umich.edu/~mejn/election/2012/> link to open resource.

5b. Hands-on Activity: 3D Visualization of Spatial Data using QGIS File

**5b**

day5data(sabie\_basin)

5c. Hands-on: Create a Map or Story in Google Earth Web

How to create a story or map on the web using locations, photos, videos, 3D imagery and Street View.

Click  
<https://www.google.com/earth/outreach/learn/create-a-map-or-story-in-google-earth-web/> link to open resource.

Optional: Google Earth Tutorials

You now have enough knowledge and skills in GIS to be able to play with other tools such as Google Earth. This website has a lot of short tutorials to help you learn many different ways Google Earth can be useful for you in your professional/personal work.

Click <https://www.google.com/earth/outreach/learn/> link to open resource.

5d. Watch: Extracting DEM from Google Earth, Geo-Visualizer, and QGIS

<https://www.youtube.com/watch?v=5hX6jXpkHt4>

Download Google Earth Pro Desktop Software (64-bit, 66 MB) URL

<https://support.google.com/earth/answer/168344>

GPS Visualizer

Click <https://www.gpsvisualizer.com/> link to open resource.

Join ADDA Alumni LinkedIn Group

This is a closed group that has all the graduates from ADDA's different certificate programs. Once you complete this program requirements and receive certificate, you can join the group and become a part of the network of ADDA alumni professionals who can provide you help and advice when needed.

Click <https://www.linkedin.com/groups/9009131/> link to open resource.