

Resources for Teaching with GIS

Wisconsin Technical College System (WTCS) BOSS Conference.

November 1st 2018. Elkhart Lake, Wisconsin.

1. Software

- ArcGIS Online (Free and paid tiers): <https://www.arcgis.com/home/signin.html>
- ArcGIS Desktop (Paid, with cheaper non-commercial pricing): <http://www.arcgis.com/index.html>
- Google Earth Pro (Desktop edition - free): <https://www.google.com/earth/desktop/>
- QGIS (Desktop GIS - free): <https://qgis.org/en/site/>

2. Applications of GIS (Business and other sectors)

- The Geospatial Revolution: <http://geospatialrevolution.psu.edu/> (**Highly recommended)
- GIS (ArcGIS) use by industry: <https://www.esri.com/en-us/industries/index> (**Highly recommended)

3. Story Maps (Tutorials, Templates, Examples)

- ArcGIS Story Maps: <https://storymaps.arcgis.com/en/>

4. Essential Starter Lessons

- Get Started with Map Viewer: <https://learn.arcgis.com/en/projects/get-started-with-map-viewer/>
- Get Started with Story Maps: <https://learn.arcgis.com/en/projects/get-started-with-story-maps/>
- Getting Started with ArcMap (Desktop GIS): <https://learn.arcgis.com/en/projects/get-started-with-arcmap/>
- QGIS Tutorials and Tips (QGIS): <https://www.qgistutorials.com/en/>

5. Today's Demonstration (Data and Instruction Sheet)

- Data and instruction sheet: <https://bit.ly/2RqibOK>

6. Classroom activities

- ESRI Tapestry Segmentation: <https://www.esri.com/en-us/arcgis/products/tapestry-segmentation/zip-lookup> (**Highly Recommended)
- ESRI Retail Analysis Map: <https://www.esri.com/en-us/industries/retail/market-analysis-map>
- Teach with GIS: <https://learn.arcgis.com/en/educators/> (scroll to the bottom of the page)
- ESRI Geoinquiries: <https://bit.ly/2R9BcEJ> (created for K-12, but many exercises can be modified and adapted for the college classroom)
- MIT Opencourseware – GIS Tutorial: <https://bit.ly/2z0uHws>

7. Free Online Classes

- The Location Advantage (MOOC): <https://bit.ly/2JQIJ9Q> (**Highly Recommended)
- Teaching with GIS: Introduction to Using GIS in the Classroom: <https://bit.ly/2vLqIAS>

8. Free Online Books/Tutorials

- The ArcGIS Book: <https://learn.arcgis.com/en/arcgis-book/>
- The ArcGIS Imagery Book: <https://learn.arcgis.com/en/arcgis-imagery-book/>
- A Gentle Introduction to GIS (QGIS) : https://docs.qgis.org/2.8/en/docs/gentle_gis_introduction/