Day 08 - Activities: Image Analysis and Remote Sensing

Lecture (in class):
- Lecture 8: Image Analysis and Remote Sensing (PDF)
- Demonstration:
  - Living Atlas of the World
  - View the world with Landsat imagery

Lab (in class):
- ArcGIS Pro Tutorial
  - Finish Tutorial 5a: Make a Layout
  - Finish Tutorial 7a: Map Hurricane Storm Surge
    - Instructions: English / Chinese
  - Tutorial 8: Classify Land Cover to Measure Shrinking Lakes
  - Optional Tutorials:
    - Mapping: Cartographic Creations in ArcGIS Pro
    - Image Analysis: Assess Burn Scars with Satellite Imagery

Reading (Homework):
- ArcGIS Imagery Book:
  - Chapter 02: The Nature of Remote Sensing (English / Chinese)
  - Chapter 03: Defining Imagery (English / Chinese)
  - Chapter 04: Perceiving The Imperceptible (English / Chinese)

- ArcGIS Pro Documentation:
  - Overview of image classification
  - Generalization of classified raster imagery
  - Smoothing zone edges with Boundary Clean and Majority Filter

- GIS - An Introduction (McHaffie and Hwang, 2019)
  - Chapter 9: Introduction to Remote Sensing and GIS (pp 239-260)

Homework:
- Complete Tutorial 7a or 8 using one of the following softwares:
  - ArcMap **or** ArcGIS Online **or** QGIS
- Story Maps - **Finish**: Create a Story Map Cascade (San Diego):
- Finish: Getting to Know the New Story Maps