

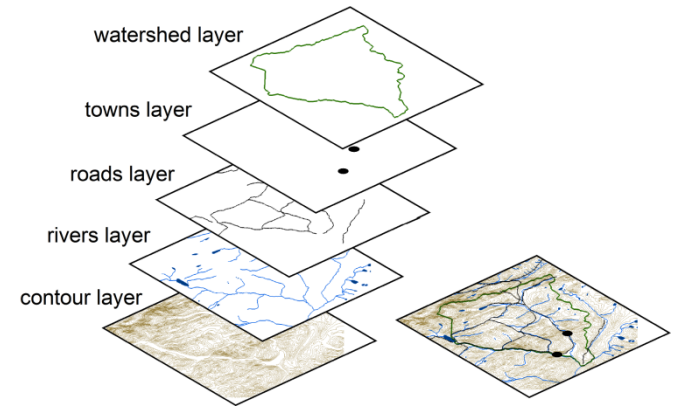
# GIS Lab



Measuring Distance in Google Earth

# What We are Doing Today

- What is GIS?
- Google Earth
- Measuring Distance



# What is a GIS??

Geographic Information

+

System

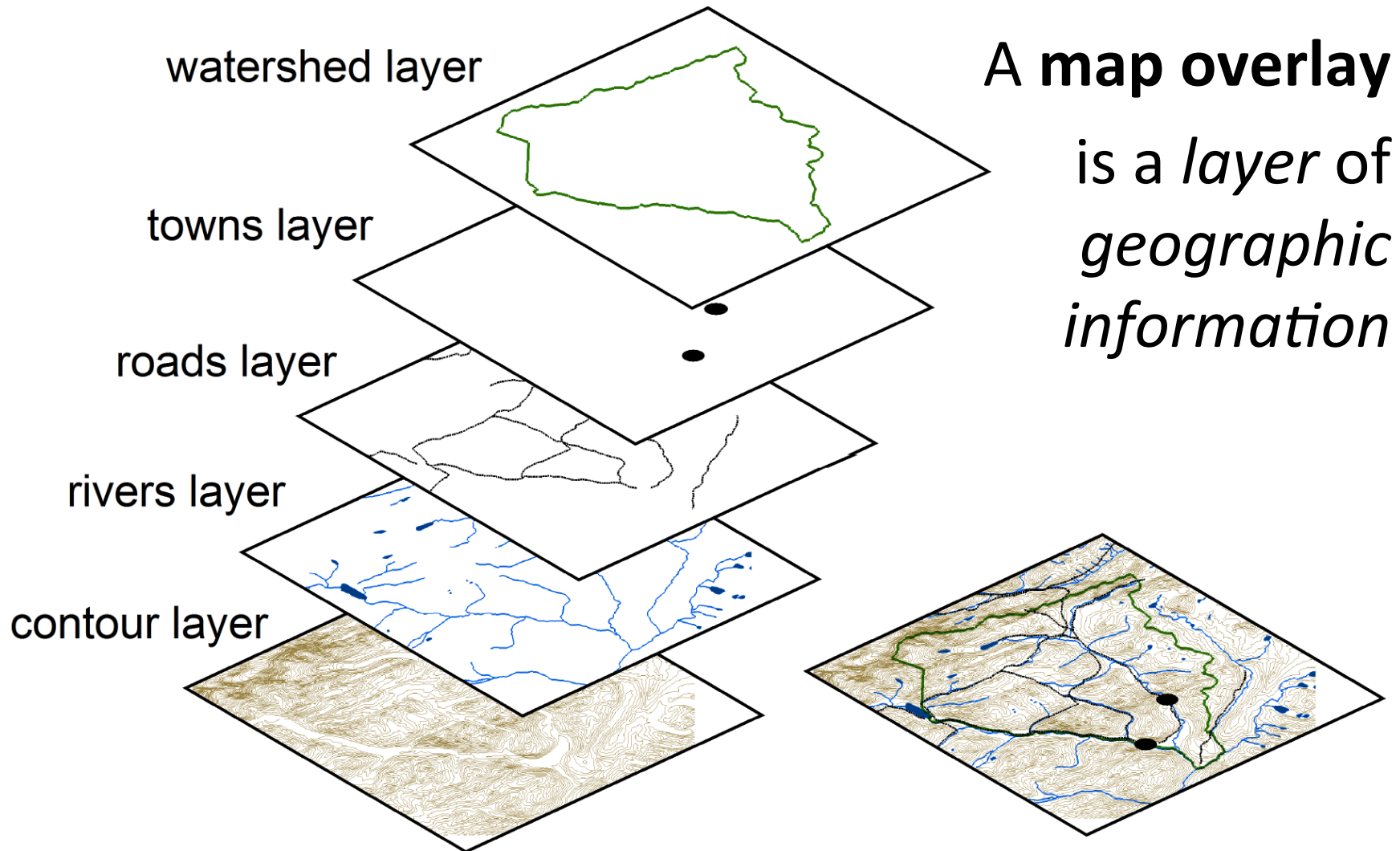
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Geographic Information System

# What is Geographic Information?

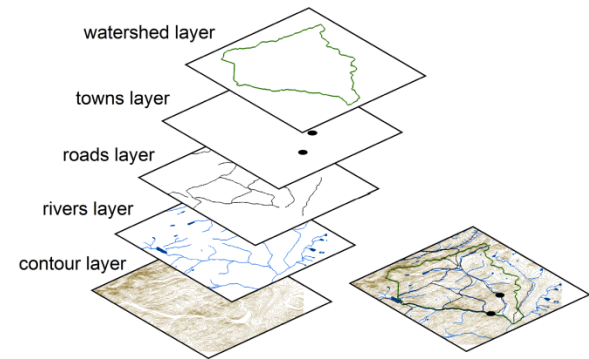
- Information including place/location about things on the surface of the earth
- What kind of information is on a map
  - Rivers
  - Roads
  - Cities/towns
  - Other . . . . ??

# Organization and Layers



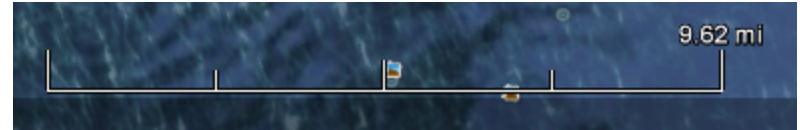
# Systems to Organize Geographical Information

- Manual Systems
  - Maps and transparencies

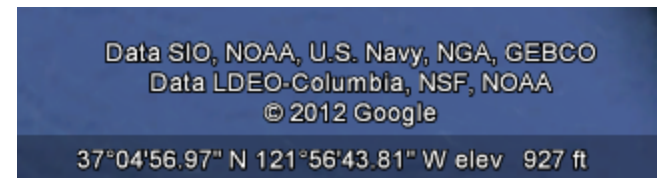
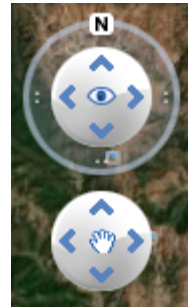


- ## Digital (computer) Systems
- Google Earth
  - ESRI ArcMap

# Elements of a Map – Google Earth



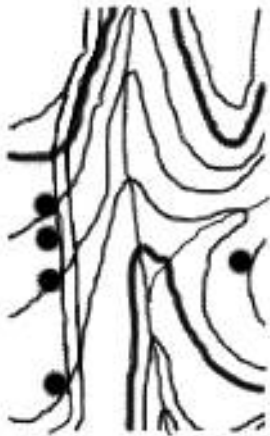
- **Scale** – bottom left
  - Menu “View->Scale legend”
- **North** – the compass rose is top right
  - you can change this by click and drag
- **Legend** – **Places** or **Layers** on the left
  - click on triangles to expand and see the legend
- **Sources** – bottom center
- **Title** – “Google Earth”



# Adding Layers

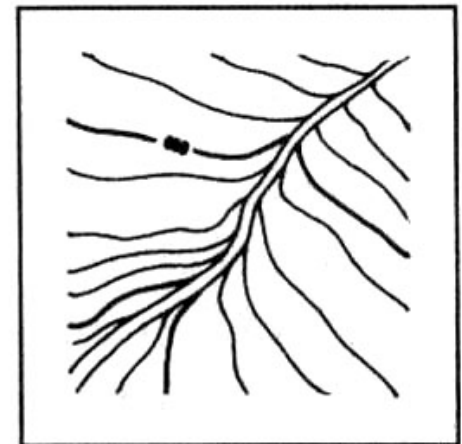
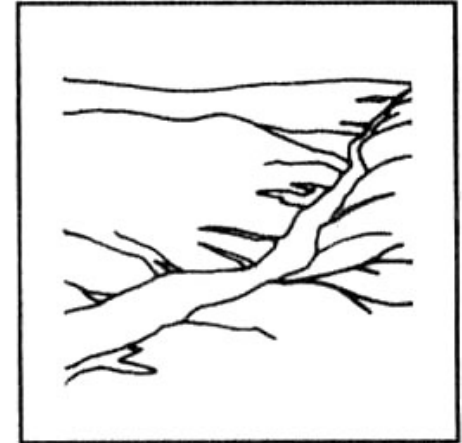
- Go to [http://scwibles.ucsc.edu/SCWIBLESModules/Norris\\_ContourWhat.html](http://scwibles.ucsc.edu/SCWIBLESModules/Norris_ContourWhat.html)
- Download (right click) “Watsonville.kmz” and choose “save link as” from the menu, navigate to the desktop and click ‘OK’
- From the file menu in Google earth open “Watsonville.kmz” from the Desktop
- It will appear in the “Temporary Places” on the left

# Contour Review



- Where is the river?
- Which direction does the river flow?

Which direction  
does the river  
flow?

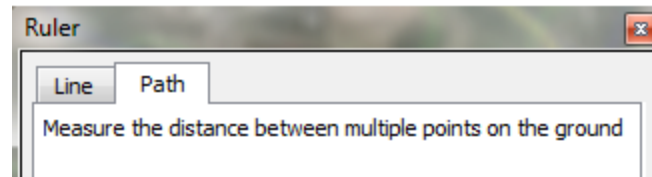


# Measuring Distance in Google Earth



The ruler tool

- How long is the longest river
  - Click the “ruler tool” and then click the “Path” tab on the new window



- move the cursor (white box) to the end of the river
  - Click to add points, note the length is being measured
  - Choose what units to measure in