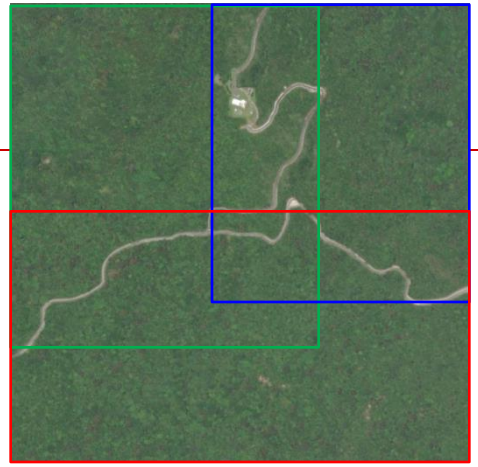
HW2



- Due on 11/13, 23:59
- Connected components
  - Generate a binarized image of **road**
  - Label the **forest** regions with 4-connected neighbor

    - Label each connected component with R/G/B bounding box in output image.
    - Compute the centroid and area of each regions and print the data on output image or command window.
  - Use the morphology algorithms to reserve the **road**

    i.e., the output connected component are only one region.
    - Report the length and orientation of the longest axis
  - Analyze and print the computational time of your program

Time(sec.)	binarizing	morphology	connected component	property analysis	drawing
C program	xxx	xxx	xxx	xxx	xxx
OpenCV	ooo	ooo	ooo	ooo	ooo

HW2

- Bonus
  - Use the region properties to estimate the rotation angle ($90^\circ/180^\circ/270^\circ$) of the aerial image.


lan_island_square


Switzerland_square

HW2

- Requirements
  - Two Programs
    - C or C++ source code with .exe file (You are NOT allowed to use any library, such as OpenCV)
      - Except the R/W image
      - You can also use .raw to complete your work
    - by using OpenCV
  - Report
    - Describe the employed source code editor and how to execute your program (input/interface/output)
    - Introduce your work, method, and discussions
    - With all of the images or results
  - Upload to i-school Plus