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[Title] Final Presentation | Rocky Mountains

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[Tab] Montana

[Tab] Wyoming

[Tab] Colorado

[Tab] New Mexico

[Doormat Title] Visibility Analysis of the Rocky Mountains

[Section Title] What is This?

[Paragraph] Simply put this site will show you where you can see the Rocky Mountains from in each of these four states: Montana, Wyoming, Colorado, and New Mexico. Utilizing GIS software and publicly available data from the U.S. Geological Survey I was able to create a viewshed, the results of a type of analysis that uses a heightmap and defined points to identify weather a point can see a certain area, for a multitude of high points within each state. This, in practice, resulted in the areas where the mountains can be seen from.

[Paragraph] Why is this useful? It can help narrow down the area needed for a more specific viewshed analysis. It can give geographers a new consideration for defining the rocky mountain region. And it's fun and interesting!

[Picture] Bitterroot Flower

[Section Title] Montana

[Paragraph] Home of Montana State University, where this project began. As beautiful as Colorado, but without the people.

[Link] Discover Montana, A link to the Montana page.

[Picture] Indian Paintbrush Flower

[Section Title] Wyoming

[Paragraph] The least populated state. The howling winds are what kept people away, but the Teton Mountains and Yellowstone bring the few that live there in.

[Link] Discover Wyoming, A link to the Wyoming page.

[Picture] Columbine Flower

[Section Title] Colorado

[Paragraph] The highest average elevation of all U.S. states. No rivers that flow into the state originate outside Colorado.

[Link] Discover Colorado, A link to the Colorado page.

[Picture] Yucca Flower

[Section Title] New Mexico

[Paragraph] The southernmost state in this analysis. The Rio Grande runs straight down the middle of the state, with mountains to either side.

[Link] Discover New Mexico, A link to the New Mexico page.

[Section Title] About the Process

[Paragraph] Here is a closer look onto what had to be done to create this dataset:

[List Item 1] I obtained the Digital Elevation Models for each state.

[List Item 2] I ran a mosaic function on the DEMs to combine them into one raster.

[List Item 3] I ran a binary raster process to identify what areas were mountains. I turned this into a polygon.

[List Item 4] I subdivided the mountain polygon horizontally into 100 sections and vertically into 40 sections.

[List Item 5] I ran a zonal analysis using the subdivisions as zones, finding the maximum value.

[List Item 6] I isolated the maximum value to a point by finding when the zonal analysis was equal to the original raster.

[List Item 7] I then created a 1km buffer around each point and repeated step 5 and 6 for the buffered region.

[List Item 8] I then filtered these points to only the ones where the zonal maximum point was the same as the buffer maximum point.

[List Item 9] Before running the viewshed analysis I resampled the raster to have a cell size 10 times larger. And reprojected the map into the 1984 state plane projection for the state.

[List Item 10] I ran the viewshed analysis using this raster and the observation points identified in part 8.

[List Item 11] After 1 to 2 hours of processing time, I had a raster of the viewshed, I then simplified it to a binary of whether any mountains were visible or not.

[List Item 12] This was then converted into a polygon and clipped to the borders of the state.

[Section Title] General Citations

[Paragraph] All images have been edited for increased visual appeal.

[Paragraph] Yucca Image by [Link][Gabriele M. Reinhardt](#) from [Link][Pixabay](#)

[Paragraph] Columbine Image by [Link][Bryan Hanson](#) from [Link][Pixabay](#)

[Paragraph] Indian Paintbrush Image by [Link][Jim Black](#) from [Link][Pixabay](#)

[Paragraph] Bitterroot Image by [Link][M.](#) from [Link][Pixabay](#)

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[Title] Final Presentation | Montana

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[Picture] Bitterroot Flower

[Section Title] Montana

[Map] Web map of Montana. Contains a viewshed layer and an observation point layer.

[Section Title] Citations

[Paragraph] U.S. Census Bureau (2018). *cb_2018_us_state_20m*. *U.S. Census Bureau*

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[Title] Final Presentation | Wyoming

[Image] Logo

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[Picture] Indian Paintbrush Flower

[Section Title] Wyoming

[Map] Web map of Wyoming. Contains a viewshed layer and an observation point layer.

[Section Title] Citations

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[Picture] Columbine Flower

[Section Title] Colorado

[Map] Web map of Colorado. Contains a viewshed layer and an observation point layer.

[Section Title] Citations

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