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Project Explanation

Taking inspiration from the mantis shrimp and Sergey Prokudin-Gorskii, we plan to determine whether black and white photographs taken through RGB and non-RGB colored gel filters (such as cyan, magenta, and yellow) will result in images more visually appealing than RGB photographs. This method of photography might allow viewers to better interpret non-spectral colors.

Input:

Output:

Project Pipeline

1) Take black and white photographs using non-RGB gel filters
2) Using Processing, map image data onto RGB color channels
3) Allow user input to modify intensity of each color channel
4) Provide user with novel image rendered in real-time

Sources

Brown, Evan N. “Images of Old Russia, From a Photography Pioneer.” 28 March 2019. https://www.atlasobscura.com/articles/early-color-photography-russia

Caldwell, Roy L. Department of Integrative Biology, University of California, Berkeley - National Science Foundation [1], Public Domain, https://commons.wikimedia.org/w/index.php?curid=10483908