

# National Geographic Images

A UVA Data Science Case Study by Tina Lin



Many of us are familiar with the popularized magazine National Geographic, and the first line of thought that often pops into people's minds when they hear those two words are the yellow border and the image in the middle. Ever wonder how these images are selected or why a certain theme is chosen? Well, now you get the opportunity to find out.

Prompt: A team of UVA students believed that the cover image of the National Geographic magazine correlates with the current trajectory of the world, whether it is related to climate change, deforestation, human displacement, etc. To examine their hypothesis they analyzed the last 40 years of the National Geographic cover images. However, some individuals are incredulous towards their findings and would like other students to re-conduct the research to either argue against or support their results. The students that would like you to re-examine this project have left you a folder of materials filled with data to help you re-examine the research project:

1. Data
2. Data dictionary
3. National Geographic cover images
4. Climate change trend visualization
5. References

Deliverable: A couple of UVA students would like more people to reproduce the research project to see if the results are valid and match up to the findings produced by the original team of UVA researchers. To replicate the research project, each team must examine and report the monthly cover images of the last 40 years. Once the research conduct is complete, create a recap that delivers all your conducted work along with your results in presentation format. In addition, please upload the materials to a Github repository for easy access.