

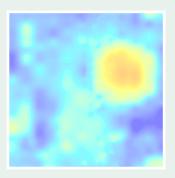
Hillshading with Illuminated Contours

FEATURED



DIGITAL ELEVATION MODEL (DEM)

A Digital Elevation Model of the Moon was used to generate 1 km contours which were generalized to match final scale.



HYPSOMETRIC TINTING OF DEM

The DEM was then colored by elevation (hypsometric tinting) to preserve information on the direction of slope to be used later the process. A diverging color ramp was chosen to facilitate quick understanding of changes in topography and the direction of slope between any two contours



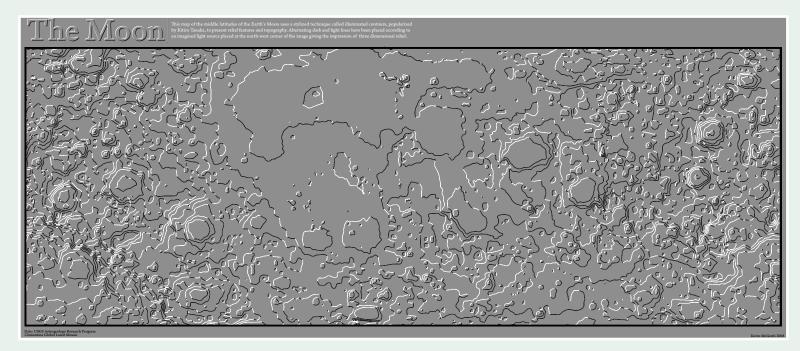
CUTTING AT TRANSITION POINTS

The contour lines were then manually cut at "transition points" where an imaginary light source from the upper left portion of the image would no longer bathe that slope in light but would leave it in shadow.



APPLICATION OF COLORED STROKE

The illusion of relief was achieved by manually selecting and applying a colored brush stroke to clipped portions of the contours between "transition points." (Black stroke for shadows and white for sunlight, informed by the slope preserved in the colored DEM).



THE EFFECT

The addition of a dark grey background completes the process and helps to strengthen the illusion. Note that the illusion is most powerful from a distance.