



Moon-Markers 2.0

Take me to the moon

Moonquake Data

Activate Sensor 1

Activate Sensor 2

Show Heatmap

Seismic Activity:



Earth Time:
11:32:53 PM

Toggle Earth Time

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During the Apollo missions, astronauts left behind several instruments that detected moonquakes, impacts from meteorites, and impacts of man-made origin; these data were then transmitted to Earth. Although these geophysical data are accessible to the public, its format makes it complex to understand. With this interactive web app, seismic data are animated as seismic waves on an interactive 3-D digital moon globe. Through this visualization, the collected data can be analyzed efficiently, paving the way to more meaningful applications.

How Does It Work?

Opening the web app will take you to the home page, which will have the button "Take me to the moon"; clicking this button will direct you to the main interface. With that, you can choose to activate Sensor 1 and Sensor 2, show the Heatmap, and adjust the Seismic Activity.

What do you hope to achieve?

Simplifying complex data through visualization not only expands our audience but also intensifies the impact it has on them. Our future astronauts could be doing an online search right now, and this tool could have helped increase the possibility of them realizing their full potential.

Tools, Coding Languages, and Software used:

HTML, CSS, JavaScript, ReactJS, ThreeJS, and Python