### Hashtags: #earth, #earthobserviz

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### Tags: Data Visualization, Platform

**Challenge Description**

Combine the wealth of data about conditions on Earth with the technology to display that information on a globe. Design a way to visualize live Earth observation data on a web app or a mobile app. You could use new technologies to visualize wind, pressure, wave height, thermal, UV levels, or other Earth observation data on a 3D globe right in your web browser. The app’s main users could be space scientists, Earth scientists, and students.

**Background**

NASA provides a large amount of Earth observation data in near real-time, for example, temperature, precipitation, clouds, ozone, sulphur dioxide, snow cover, wildfires and many more. There are examples of presenting wind speeds around the globe. Something similar for other environmental data would be beneficial.

Could this tool be used in schools, in research or other areas?

**Solution Ideas**

Here are some ways for you to frame this solution:

The app should allow users to: input the coordinates on earth to extract local data values; retrieve Earth observation data in near real-time; visualize Earth observation data globally and locally (e.g. zoom); and provide an interactive globe or map with data visualization layers

**Sample Resources**

* Earth Null School, visualization of wind on the Earth surface: <http://earth.nullschool.net/>
* Land Atmosphere Near Real-time Capability for EOS: <https://earthdata.nasa.gov/data/near-real-time-data>