### Hashtags: #earth, #earthasart

Contact: [[email protected]](http://www.cloudflare.com/email-protection)

### Tags: Imagery

**Challenge Description**

Over the decades, Earth-observing environmental satellites have provided invaluable information and beautiful images of the Earth from the vantage point of space. The challenge is to create a way for people to find beautiful images in the Earth-observing satellite image archives, nominate them, and let people vote for their favorites. An app might allow people to suggest and vote on new places or phenomena for Earth-observing satellites to collect images. The app can also let people select images to create their own personal “image albums” and then share images and albums.

**Background**

NASA created an e-book and mobile app called Earth as Art that features 75 stunning images of Earth from several satellites. Sensors on these satellites can measure light outside of the visible range, so the images show more than what is visible to the naked eye. The images are intended for viewing enjoyment rather than scientific interpretation.

This is your chance to make an app that lets people make their own images they select. It’s also an opportunity to leverage crowdsourcing techniques to select the images or share the albums. You can use images from the archives of imagery for Terra, Landsat, Aqua, EO-1, and Suomi NPP satellites. You can even use images that are not true-color.

**Solution Ideas**

Here are some ways for you to frame this solution:

Create a web app or mobile app that lets people choose a set of images they want to display. The app could let people group images of specific places; a single country, continent, or phenomenon; features like watersheds, coastlines, or deserts; or time sequences of a single location.

Create a way for people to combine the images into an e-book or other type of image album perhaps by using such services that are available on the Internet. Allow people to print, store, or share these photo collections.

Create a web app or mobile app that enables people to nominate and vote for their favorite images or on others’ photo albums.

An app might allow people to suggest and vote on new places or phenomena for Earth-observing satellites to collect images, or include the top images in a book or website.

**Sample Resources**

* Earth as Art e-book and mobile app: <http://www.nasa.gov/connect/ebooks/earth_art_detail.html#.UuWvZWQo5aE>
* Earth as Art collection hosted by the USGS EROS Data Center: <http://eros.usgs.gov/imagegallery/>
* LANDSAT 8: <http://landsat.usgs.gov/landsat8.php>
* ASTER: <http://asterweb.jpl.nasa.gov/data.asp>
* EO-1: <http://eo1.usgs.gov/>
* MODIS: <http://modis.gsfc.nasa.gov/gallery/>
* AQUA: <http://aqua.nasa.gov/science/images_data.php>
* Direct Readout Laboratory (direct broadcasts): <http://directreadout.sci.gsfc.nasa.gov/>
* Earth observatory: <http://earthobservatory.nasa.gov/>