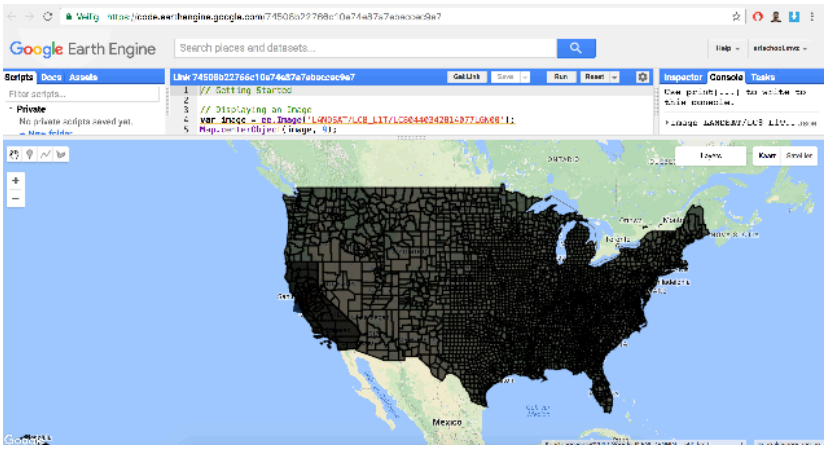


```
// Getting Started

// Displaying an Image
var image = ee.Image('LANDSAT/LC8_L1T/LC80440342014077LGN00');
Map.centerObject(image, 9);
var vizParams = {bands: ['B5', 'B4', 'B3'], min: 5000, max: 15000, gamma:
1.3};
Map.addLayer(image, vizParams, 'Landsat 8 false color');

// Displaying a FeatureCollection
var counties = ee.FeatureCollection ('ft:1S4EB6319wWW2sWQDPhDvmSBI-
VrD3iEmCLYB7nMM');
Map.addLayer(counties, {}, 'counties');

// Printing an ImageCollection
var collection = ee.ImageCollection('LANDSAT/LC8_L1T');
print(collection.first());

// Constructing a Point and Dates
var point = ee.Geometry.Point(-122.262, 37.8719);
var start = ee.Date('2014-06-01');
var end = ee.Date('2014-10-01');

// Filtering and Sorting an ImageCollection
var filteredCollection = ee.ImageCollection('LANDSAT/LC8_L1T')
  .filterBounds(point)
  .filterDate(start, end)
  .sort('CLOUD_COVER', true);
print(filteredCollection);

var first = filteredCollection.first();
print(first);

// Filtering a FeatureCollection
var featureCollection = ee.FeatureCollection(
  'ft:1fRY18cjsHzDgGiJiS2nnpUU3v9JPDc2HNaR7Xk8');
var filter = ee.Filter.eq('Name', 'California');
var filteredFC = featureCollection.filter(filter);
Map.addLayer(filteredFC, {}, 'California');
```


```
// This function gets NDVI from Landsat 5 imagery.
var getNDVI = function(image) {
  return image.normalizedDifference(['B4', 'B3']);
};

// Load two Landsat 5 images, 20 years apart.
var image1 = ee.Image('LT5_L1T_TOA/LT50440341990155XXX03');
var image2 = ee.Image('LT5_L1T_TOA/
LT50440342010162EDC00');

// Compute NDVI from the scenes.
var ndvi1 = getNDVI(image1);
var ndvi2 = getNDVI(image2);

// Compute the difference in NDVI.
var ndviDifference = ndvi2.subtract(ndvi1);
// Load the land mask from the SRTM DEM.
var landMask = ee.Image('CGIAR/SRTM90_V4').mask();

// Update the NDVI difference mask with the land mask.
var maskedDifference = ndviDifference.updateMask(landMask);

// Display the masked result.
var vizParams = {min: -0.5, max: 0.5, palette: ['000000', 'FFFFFF',
'0000FF']};
Map.setCenter(-122.2531, 37.6295, 9);
Map.addLayer(maskedDifference, vizParams, 'NDVI difference');
```

```
);

// Load two Landsat 5 images, 20 years apart.
var image1 = ee.Image('LT5_L1T_TOA/LT50440341990155XXX03');
var image2 = ee.Image('LT5_L1T_TOA/LT50440342010162EDC00');

// Compute NDVI from the scenes.
var ndvi1 = getNDVI(image1);
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var ndviDifference = ndvi2.subtract(ndvi1);
// Load the land mask from the SRTM DEM.
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// Update the NDVI difference mask with the land mask.
var maskedDifference = ndviDifference.updateMask(landMask);

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var vizParams = {min: -0.5, max: 0.5, palette: ['000000', 'FFFFFF', '0000FF']};
Map.setCenter(-122.2531, 37.6295, 9);
Map.addLayer(maskedDifference, vizParams, 'NDVI difference');
```

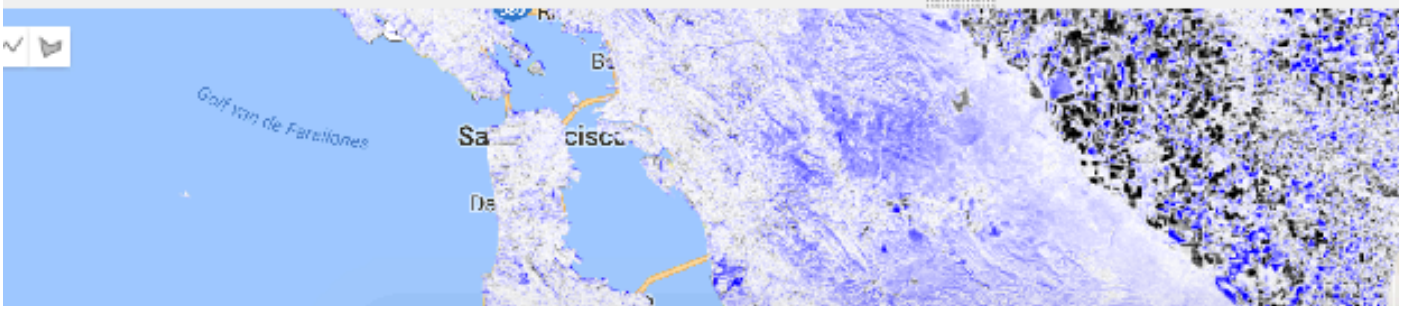

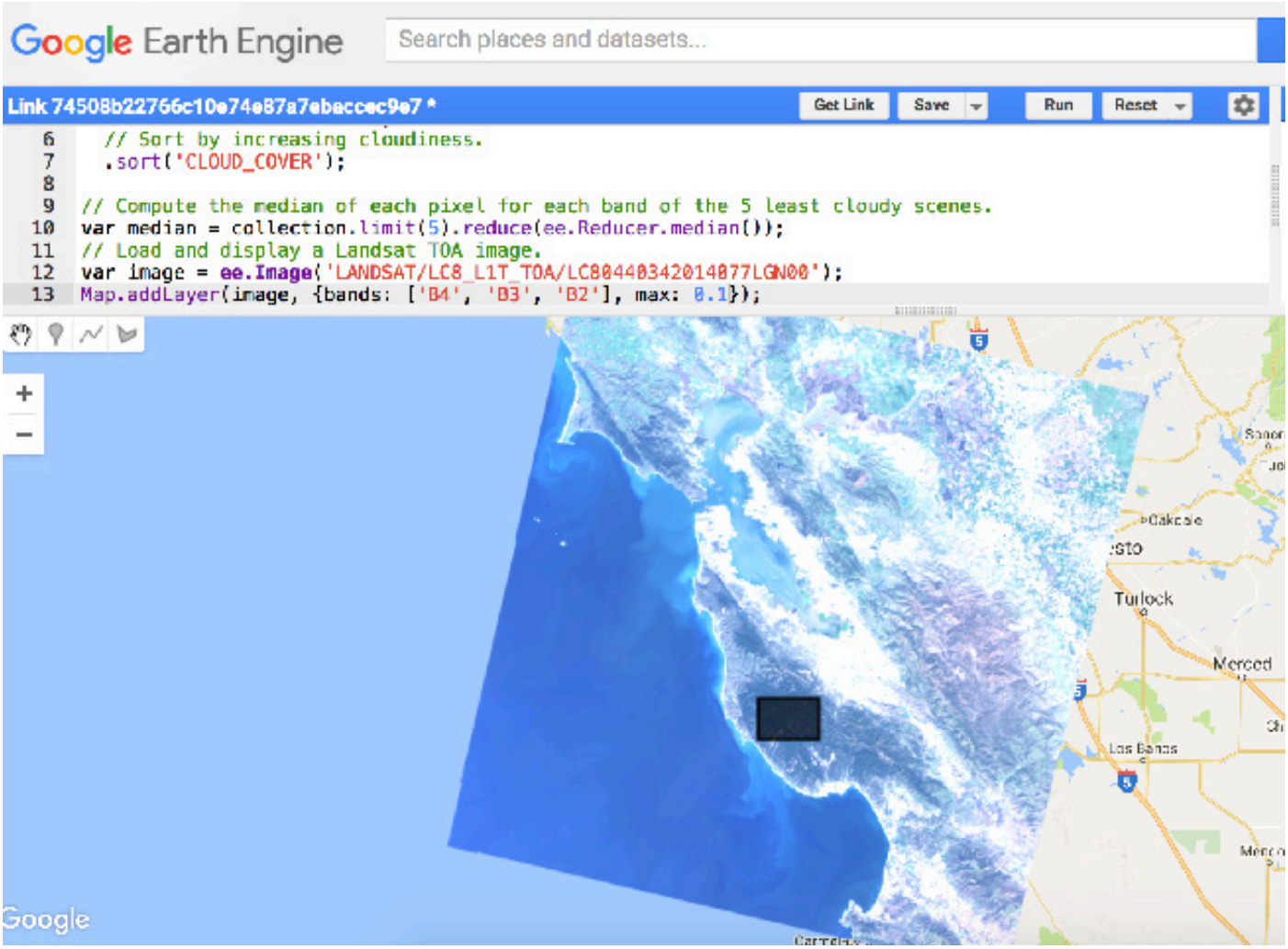
Google Earth Engine
Search places and datasets...
Link 74508b22766c10e74e87a7ebaccec9e7 *
Get Link
Save
Run
Reset
6 // Sort by increasing cloudiness.
7 .sort('CLOUD_COVER');
8
9 // Compute the median of each pixel for each band of the 5 least cloudy scenes.
10 var median = collection.limit(5).reduce(ee.Reducer.median());
11 // Load and display a Landsat TOA image.
12 var image = ee.Image('LANDSAT/LC8_L1T_TOA/LC80440342014077LGN00');
13 Map.addLayer(image, {bands: ['B4', 'B3', 'B2'], max: 0.1});
Turlock
Merced
Las Banos
Google


```
// Load a NAIP quarter quad, display.
var naip = ee.Image('AHN/AHN2_05M_INT');
Map.setCenter(5.9052, 52.0035, 14);
Map.addLayer(naip, {}, 'NAIP DOQQ');

// Create the NDVI and NDWI spectral indices.
var ndvi = naip.normalizedDifference(['N', 'R']);
var ndwi = naip.normalizedDifference(['G', 'N']);

// Create some binary images from thresholds on the indices.
// This threshold is designed to detect bare land.
var bare1 = ndvi.lt(0.2).and(ndwi.lt(0.3));
// This detects bare land with lower sensitivity. It also detects shadows.
var bare2 = ndvi.lt(0.2).and(ndwi.lt(0.8));

// Define visualization parameters for the spectral indices.
var ndviViz = {min: -1, max: 1, palette: ['FF0000', '00FF00']};
var ndwiViz = {min: 0.5, max: 1, palette: ['00FFFF', '0000FF']};

// Mask and mosaic visualization images.  The last layer is on top.
var mosaic = ee.ImageCollection([
  // NDWI > 0.5 is water.  Visualize it with a blue palette.
  ndwi.updateMask(ndwi.gte(0.5)).visualize(ndwiViz),
  // NDVI > 0.2 is vegetation.  Visualize it with a green palette.
  ndvi.updateMask(ndvi.gte(0.2)).visualize(ndviViz),
  // Visualize bare areas with shadow (bare2 but not bare1) as gray.
  bare2.updateMask(bare2.and(bare1.not())).visualize({palette:
['AAAAAA']}),
  // Visualize the other bare areas as white.
  bare1.updateMask(bare1).visualize({palette: ['FFFFFF']}),
]).mosaic();
Map.addLayer(mosaic, {}, 'Visualization mosaic');
```