



# Google Earth Engine教学

Supervised classification

Day 4

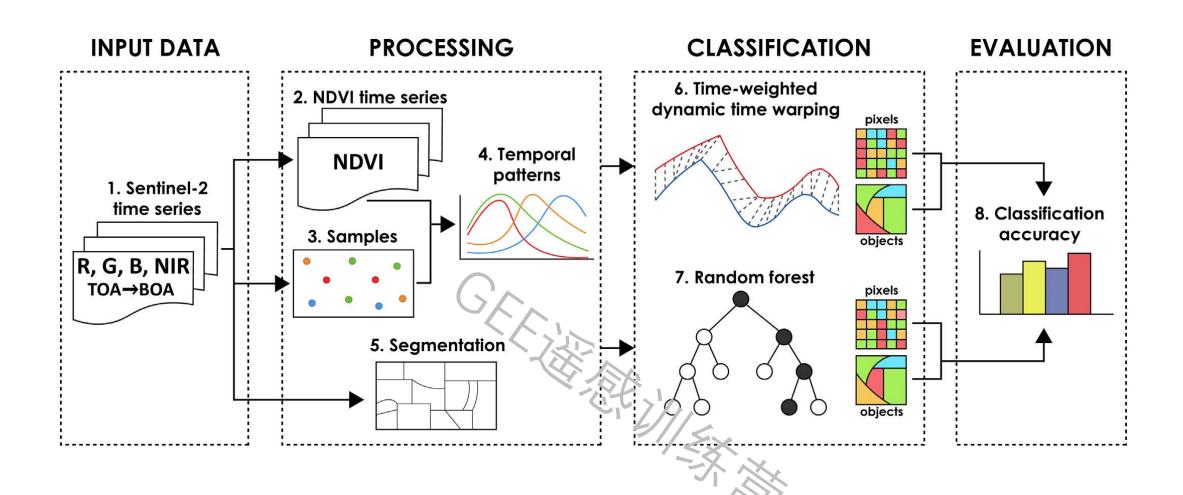
### 基本内容

✓监督分类的基本概念

✓监督分类整体流程和代码讲解

✓监督分类的精度评价等

### 监督分类的基本流程



### 监督分类的对应概念



### Geometry

Pointee.Geometry.Point(lng, lat)

Polygonee.Geometry.Polygon(aLng, aLat, bLng, bLat, ..., aLng, aLat)

• LineString
e.g. ee.Geometry.LineString
(aLng, aLat, bLng, bLat, ...)

 MultiPoint
 ee.Geometry.MultiPoint(a Lng, aLat, bLng, bLat, ...) Rectangle
 ee.Geometry.Rectangle
 (minLng, minLat, maxLng, maxLat)

https://code.earthengine.google.com/14ffcce8c2a5b6ee42001a78a43861e8

#### **Feature**

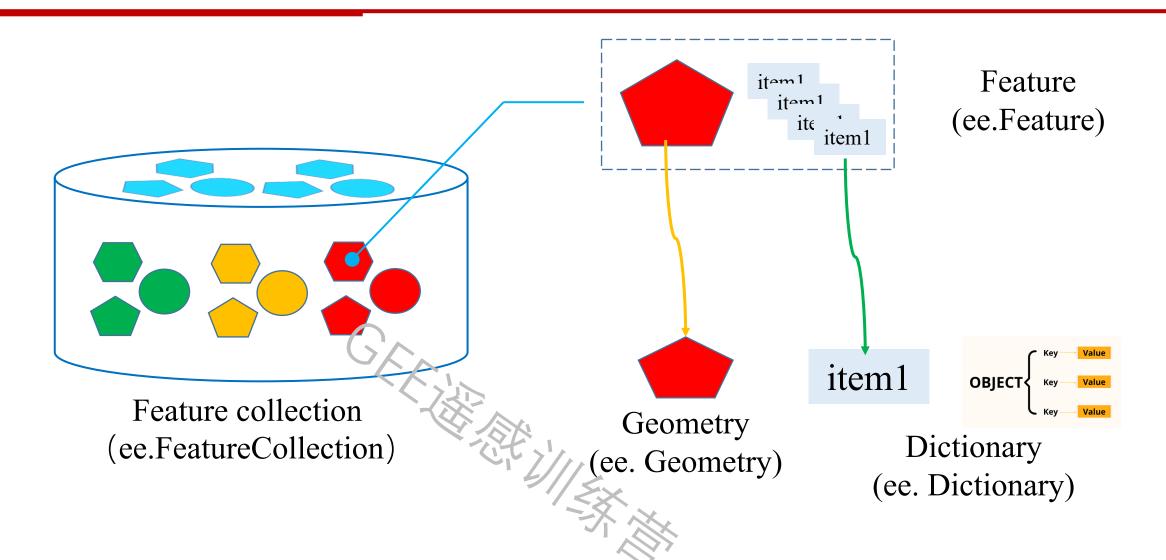
• To create a Feature, **provide the constructor with a Geometry** and (optionally) a dictionary of other properties. Specifically, a Feature is an object with a geometry property storing a Geometry object (or null) and a properties property storing a dictionary of other properties.

```
// Create an ee.Geometry.
var polygon = ee.Geometry.Polygon(
        [[[-115.151171875, 41.82430152168697],
        [-108.2078125, 37.77479462232299],
        [-108.2078125, 41.82430152168697]]]);

// Create a Feature from the Geometry.
var polyFeature = ee.Feature(polygon, {name: "plg1", areas: polygon.area()});
print(polyFeature);
```

https://code.earthengine.google.com/47a326a465e1af4319589c40f25fedd5

#### Geometry, Dictionary, Feature和FeatureCollection之间的关系



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### **Image**

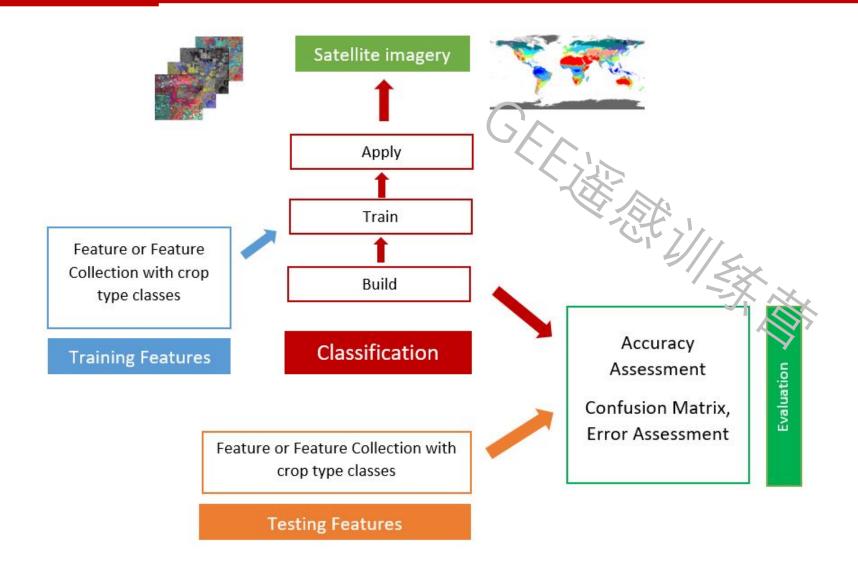
```
// Load an image.
var image =
ee.Image('LANDSAT/LC08/C01/T1 TOA/LC08 044034 20140318');
// Define the visualization parameters.
var vizParams = {
 bands: ['B5', 'B4', 'B3'],
 min: 0,
 max: 0.5,
 gamma: [0.95, 1.1, 1]
// Center the map and display the image.
Map.setCenter(-122.1899, 37.5010, 10); // San Francisco Bay
Map.addLayer(image, vizParams, 'false color composite');
```



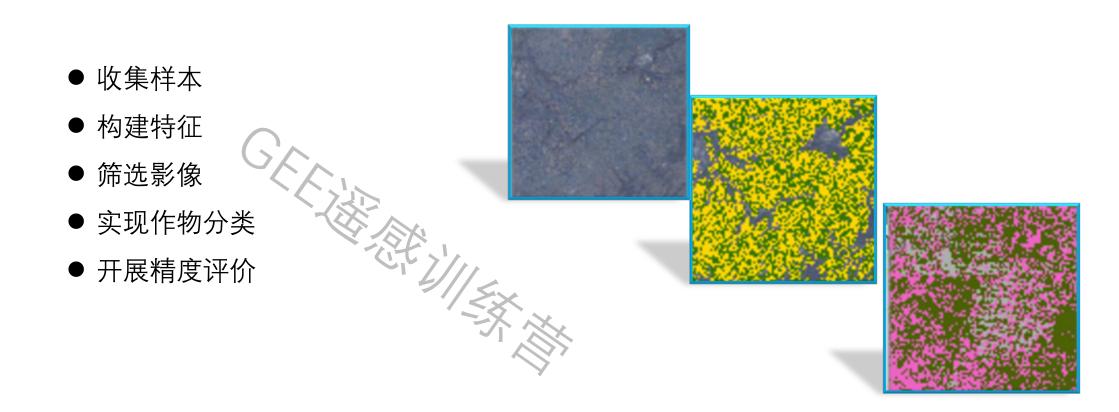


https://code.earthengine.google.com/d4537cc7118476b60eb2cd2a022c2d70

### GEE监督分类自我测试



### GEE上监督分类实战



https://code.earthengine.google.com/ce26a9b4edf0bc3f38c8e588ba318055





## Thanks for your attention

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