Google earth engine 教程笔记

第一部分

数据类型

// Use square bracket [] to make a list 列表

**var** listOfNumber = [0,1,1,2,3,5];

**print**("List of numbers:", listOfNumber);

// Make a list of string. 字符串

**var** listOfString = ["a","b","c","d"];

**print**("List of string:",listOfString);

//Use curly brackets {} to make a dictionary of key: value pairs. 字典

var dictionary = {

foo:"bar",

baz:13,

stuff:["this","that","the other thing"]

};

**print**("Dictionary:",dictionary);

**print**("Print foo:",dictionary["foo"]);

**print**("Print stuff:",dictionary.stuff);

// creat a function with key word function 函数定义

// the reflect function takes a single parameter:element.

**var** reflect = **function**(element){

// Return the argument.

return element;

};

**print**("A good day to you!", reflect("Back at you!"))

**var** aString **= ee.Algorithms.String**(42)

**print**(aString)

第二部分,

**ee.String(),**

**ee.Dictionary{xx:“yyy”},**

**ee.List([]),**

**ee.Number().log(),**

**ee.List.Sequence(Start,End)**

*// Earth Engine Objects*

*// Define a string, then put it into an EE container.*

**var** aString = "To the cloud"

**var** eeString = ee.String(aString)

**print**("where to?",aString)

*// Define a number that exists on the server*

**var** serverNumber = ee.Number(Math.E)

**print**("e",serverNumber)

*// Use a built-in function to perform an operation on the number.*

**var** logE = serverNumber.log();

**print**("log(e)",logE);

*// Make a sequence the hard way.*

**var** eelist = ee.List([1,2,3,4,5]);

*// Make a sequence the easy way!*

**var** sequence = ee.List.sequence(1,5);

**print**("Sequence:",sequence);

*// Use a method on an ee.List to extract a value*

**var** value = sequence.get(2);

**print**("Value at index 2:",value)

*// Cast the return value of get() to a number.*

**print**("No error:",ee.Number(value).add(3))

*//Make a Dictionary on the server*

**var** dictionary = ee.Dictionary({

e:Math.E,

pi:Math.PI,

phi:(1+Math.sqrt(5))/2

})

*// Get some values fromj the dictionary.*

**print**("Euler:",dictionary.get("e"));

**print**("Pi:",dictionary.get("pi"));

**print**("Golden ratio:",dictionary.get("phi"))

*//Get all the keys:*

**print**("Keys:",dictionary.keys());

*// Define a date in Earth Engine.*

**var** date = ee.Date("2015-12-31");

**print**("Date:",date);

*//Get the current time using the JavaScript Data.now() method.*

**var** now = Date.now();

**print** ('Milliseconds since january 1, 1970',now);

// Initialize an ee.Date object.

var eeNow = ee.Date(now);

**print**("Now", eeNow);

var aDate = ee.Date.fromYMD(2017,1,13);

**print**("aDate",aDate);

var theDate = ee.Date.fromYMD({

day:13,

month:1,

year:2017

});

**print**("theDate:",theDate)；