

Open Layers Questions 1

Instructions:

Quickly, without looking at your computer screen, circle the digits in the understanding columns to rate the following statement for each substantive line of code. Answer the two questions for as many lines as you can, starting at the top.

The questions are:

1) I understand what this line does and its purpose in the larger program.

(1 for completely disagree, 5 for completely agree)

(1 for completely disagree, 5 for completely agree)

	Understand	Source Code of the Example From Your Task
1	1 2 3 4 5	var map1 = new ol.Map({
2	1 2 3 4 5	target: 'map1',
3	1 2 3 4 5	view: new ol.View({
4	1 2 3 4 5	center: [0, 0],
5	1 2 3 4 5	zoom: 1,
6		}),
7	1 2 3 4 5	layers: [
8	1 2 3 4 5	new ol.layer.Tile({
9	1 2 3 4 5	source: new ol.source.TileWMS({
10	1 2 3 4 5	projection: 'EPSG:4326',
11	1 2 3 4 5	url: 'http://demo.boundlessgeo.com/geoserver/wms',
12	1 2 3 4 5	params: {
13	1 2 3 4 5	'LAYERS': 'ne:NE1_HR_LC_SR_W_DR'
14		}
15		})
16		});
17]
18		});
19		
20	1 2 3 4 5	new ol.Graticule({
21	1 2 3 4 5	map: map1
22		});
23		
24	1 2 3 4 5	var circle = new ol.geom.Circle([8e6, 8e6], 3e6);
25	1 2 3 4 5	var circlePoly = ol.geom.Polygon.fromCircle(circle, 15);
26		
27	1 2 3 4 5	var squarePoly = new ol.geom.Polygon();
28	1 2 3 4 5	squarePoly.appendLinearRing(new ol.geom.LinearRing([[5e6, 5e6], [5e6, -5e6], [-5e6, -5e6], [-5e6, 5e6]]));
29	1 2 3 4 5	var squareLinearRing = squarePoly.getLinearRing(0);

30	1 2 3 4 5	squareLinearRing.scale(.5,.25);
31	1 2 3 4 5	squarePoly.appendLinearRing(squareLinearRing);
32		
33	1 2 3 4 5	var vectorSource = new ol.source.Vector({
34	1 2 3 4 5	features: [
35	1 2 3 4 5	new ol.Feature(circlePoly),
36	1 2 3 4 5	new ol.Feature(squarePoly),
37]
38		});
39		
40	1 2 3 4 5	var vectorLayer = new ol.layer.Vector({
41	1 2 3 4 5	source: vectorSource
42		});
43		
44	1 2 3 4 5	map1.addLayer(vectorLayer);
45		
46		
47		
48	1 2 3 4 5	var countrySource = new ol.source.Vector({
49	1 2 3 4 5	url: 'https://openlayers.org/en/v4.6.4/examples/data/geojson/countries-110m.geojson',
50	1 2 3 4 5	format: new ol.format.GeoJSON()
51		});
52		
53	1 2 3 4 5	var countryLayer = new ol.layer.Vector({
54	1 2 3 4 5	source: countrySource,
55	1 2 3 4 5	style: function(feature) {
56	1 2 3 4 5	return new ol.style.Style({
57	1 2 3 4 5	fill: new ol.style.Fill({
58	1 2 3 4 5	color: 'lightgray'
59		}),
60	1 2 3 4 5	stroke: new ol.style.Stroke({
61	1 2 3 4 5	color: 'rgba(256,0,0,.7)'
62		})
63		});
64		}
65		});
66		
67	1 2 3 4 5	proj4.defs('ESRI:53009', '+proj=moll +lon_0=0 +x_0=0 +y_0=0 +a=6371000 ' +
68	1 2 3 4 5	'+b=6371000 +units=m +no_defs');
69	1 2 3 4 5	var sphereMollweideProjection = new ol.proj.Projection({
70	1 2 3 4 5	code: 'ESRI:53009',
71	1 2 3 4 5	extent: [-18000000, -9100000,
72	1 2 3 4 5	18000000, 9200000],
73	1 2 3 4 5	worldExtent: [-179, -89.99, 179, 89.99]
74		});

75		
76	1 2 3 4 5	var map2 = new ol.Map({
77	1 2 3 4 5	keyboardEventTarget: document,
78	1 2 3 4 5	layers: [countryLayer],
79	1 2 3 4 5	target: 'map2',
80	1 2 3 4 5	view: new ol.View({
81	1 2 3 4 5	center: [0, 0],
82	1 2 3 4 5	projection: sphereMollweideProjection,
83	1 2 3 4 5	zoom: 1
84		})
85		});
86		
87	1 2 3 4 5	map2.addInteraction(new ol.interaction.Modify({
88	1 2 3 4 5	source: countrySource
89		}));
90		
91	1 2 3 4 5	map2.addInteraction(new ol.interaction.Draw({
92	1 2 3 4 5	type: 'Polygon',
93	1 2 3 4 5	source: countrySource
94		}));
95		
96	1 2 3 4 5	map2.addInteraction(new ol.interaction.Snap({
97	1 2 3 4 5	source: countrySource
98		}));

Open Layers Questions 2

Instructions:

Write one or more sentences in answer to the following two questions. You may reference your code and the example code from this task.

1) What information or strategies did you find most helpful?

2) What additional information would you have wanted?