

# QGis OpenLayers

## OpenLayers and Baidu Ditu

### Add a Baidu Ditu map to OL

from <https://github.com/openlayers/ol3/issues/3522>

```
var projzh = require('projzh');
var extent = [72.004, 0.8293, 137.8347, 55.8271];
var baiduMercator = new ol.proj.Projection({ code: 'baidu', extent: ol.extent.applyTransform(extent,
projzh.ll2bmerc), units: 'm' });
ol.proj.addProjection(baiduMercator); ol.proj.addCoordinateTransforms('EPSG:4326', baiduMercator,
projzh.ll2bmerc, projzh.bmerc2ll); ol.proj.addCoordinateTransforms('EPSG:3857', baiduMercator, projzh.smerc2bmerc, projzh.bmerc2smerc);
var bmercResolutions = new Array(19); for (var i = 0; i < 19; ++i) { bmercResolutions[i] = Math.pow(2,
18 - i); }
var urls = [0, 1, 2, 3, 4].map(function(sub) { return 'http://shangetu' + sub + '.map.bdimg.com/it/u=x={x};y={y}
});
var baidu = new ol.layer.Tile({ source: new ol.source.XYZ({ projection: 'baidu', maxZoom: 18, tileUrlFunction: function(tileCoord) { var x = tileCoord[1]; var y = tileCoord[2]; var z = tileCoord[0]; var hash = (x « z) + y; var index = hash % urls.length; index = index < 0 ? index + urls.length : index; return urls[index].replace('{x}', x).replace('{y}', y).replace('{z}', z); }, tileGrid: new ol.tilegrid.TileGrid({ resolutions: bmercResolutions, origin: [0, 0], extent: ol.extent.applyTransform(extent, projzh.ll2bmerc), tileSize: [256, 256] }) }) });
```

### Browserify

**Install browserify** `npm install -g [?] browserify`

**Install projzh** `npm install projzh`

**browserify** `browserify main.js -o bundle.js`

### QGis OpenLayer plugin

TBD : integration of js code as part of openlayers-qgis