

SuperMap iClient for Leaflet Projection

SuperMap Software Co., Ltd.

Causes

- Map centers can **only** be set in **longitudes and latitudes** during Leaflet development
- During Leaflet development, overlay point, line, and region objects **only** support **longitudes and latitudes**
- During Leaflet development, visual display **only** supports **longitudes and latitudes**



**Non-longitude
and latitude data?**

Interface for Setting Projection L.Proj.CRS

- Set coordinate system for map
- Set map zoom scales (fixed scales)
- Coordinate transformation

Set Coordinate System for Map

Set Coordinate System for Map

- Set coordinate system with the properties of Map

```
crs=L.Proj.CRS("EPSG:3857",{origin:[-20037508.34,20037508.34]});  
var map = L.map('map', {  
  center: [lat, lng],  
  zoom: 13,  
  crs:crs  
});
```

Set Fixed Scales for Map

- Set fixed scales with the properties of Map

```
crs=L.Proj.CRS("EPSG:3857",{origin:[-  
20037508.34,20037508.34],scaleDenominators:[1000000000,500000000,2500  
00000,100000000,50000000,25000000,10000000]});  
var map = L.map('map', {  
  center: [lat, lng],  
  zoom: 13,  
  crs:crs  
});
```

Coordinate Transformation

- Transform coordinates with L.Proj.CRS

```
Point=L.Proj.CRS.project(<LatLng> latlng);
```

```
LatLng=L.Proj.CRS.unproject(<Point> point);
```

Set Map Center

- Set map center with the center property

```
var map = L.map('map', {  
  center: [lat, lng],  
  zoom: 13,  
  crs:crs  
});
```

Set Map Center

- Coordinate transformation for center

```
crs=L.Proj.CRS("EPSG:3857",{origin:[-  
20037508.34,20037508.34],scaleDenominators:[1000000000,500000000,2500  
00000,1000000000,500000000,250000000,100000000]});  
var pt=crs.unproject(L.point(-20037508.34 , -20037508.34));  
map=L.map('map',{center:[pt.lat,pt.lng],zoom:1,crs:crs});
```

Thank you

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