```
function convert2redians(deg){
   return deg*Math.PI/180;
}
//角度转换为弧度的函数
function mercator2y(lat) {
   v=Math.log(Math.tan(lat)+(1.0)/Math.cos(lat));
   return v:
//纬度的莫卡托转换的函数
function degree2xy(lat,lon,north,south,west,east,size,zoom)
   lat=convert2redians(lat):
   lon=convert2redians(lon):
   //将经纬度转为弧度
   north=convert2redians(north);
   south=convert2redians(south);
   west=convert2redians(west);
   east=convert2redians(east);
   //将经纬度转为弧度
   let yMin=mercator2y(south);
   let yMax=mercator2y(north);
//纬度边界做莫卡托转换
   let y=mercator2y(lat);
//目标纬度做莫卡托转换
   let xfactor=size/(east-west);
let yfactor=size/(yMax-yMin);
   //计算单位经纬度的像素值
   let x=(lon-west)*xfactor;
   y=(yMax-y)*yfactor;
//计算目标坐标的像素值
   x=x/256;
   y=y/256;
//得出栅格坐标值
   return {"x":x,"y":y}
}
```