
Points: Automatic Label Placement

Query labels points and controls deletion of overlapping labels using population.
Change *city.population* and *city.city_name* to a values appropriate for your data.

This script uses deletion and ranking based on
population to select which points are to be labeled
and where to allow maximum density

```
small = 5000 mid = 7000 big = 9000
dodel = 1 doopt = 1
if (city.population < 5000) { #determine rank
    size = small
    rank = 1
}
else {
    if (city.population < 25000) {
        size = mid
        rank = 2
    }
    else {
        size = big
        rank = 3
    }
}
```

```
LineStyleSetFont("arial.ttf")
#find placement for labels
LineStyleTextNextPosition(city.city_name,size,0,0,0,
                           nextx,nexty,length)
LineStyleAddToOptimizer(Internal.x,Internal.y,Internal.x
+ length,Internal.y + size,rank,dopt,dodel)
#draw labels
func FuncDrawLabel () {
    small = 5000 mid = 7000 big = 9000
    if (city.population < 5000) {
        size = small
        LineStyleSetTextColor(0,0,0,0,0,0)
    }
    else {
        if (city.population < 25000) {
            size = mid
        }
        else {
            size = big
        }
    }
    LineStyleSetTextColor(255,0,0,0,0,0)
    LineStyleSetFont("arial.ttf")
    LineStyleDrawText(city.city_name,size,0,0,0)
}
```



Variation: increase number of ranks to differentiate population more closely.