

```

ods graphics / reset width=10in height=6in imagemap;
Title "3e";

/* Plotting the x= start lat and y = start lng using sgplot with scatter */
Title2 "x= start lat and y = start lng";

.....

proc sgplot data=work.citibike;
    scatter x=start_lat y=start_lng;
run;

Title;
Title "3e";

/* Plotting the x= End lat and y = End lng using sgplot with scatter */
Title2 "x= End lat and y = End lng";

.....

proc sgplot data=work.citibike;
    scatter x=end_lat y=end_lng;
run;

Title;
Title "3e";

/* Using gmap to create map of newyork and its counties */
Title2 "Map of newyork and its counties";
pattern c=black v=e r=62;

.....

proc gmap data=maps.counties map=maps.counties;
    id county;
    choro county / nolegend;
    where state eq 36;
run;
Title;
Title "3e";

/* Using sgplot to scatter start lat and start lng */
Title2 "X= start lat and y = start lng";

```

```
proc sgplot data=work.citibike noborder noautolegend;  
  polygon x=Start_lat y=Start_lng id=Start_Station_name / fill outline tip=none  
    lineattrs=(color=gray99) fillattrs=(color=cxe8edd5);  
  scatter x=Start_lat y=Start_lng / datalabel=Start_Station_ID  
    markerattrs=(symbol=circlefilled size=13) markerfillattrs=(color=yellow)  
    markeroutlineattrs=(color=purple);  
  xaxis display=none;  
  yaxis display=none;  
run;
```

```
Title;  
Title "3e";
```

```
/* Using sgplot to scatter end lat and end lng */  
Title2 "x= end lat and y = end lng";
```

```
proc sgplot data=work.citibike noborder noautolegend;  
  polygon x=end_lat y=end_lng id=End_Station_name / fill outline tip=none  
    lineattrs=(color=gray99) fillattrs=(color=cxe8edd5);  
  scatter x=end_lat y=end_lng / datalabel=Start_Station_ID  
    markerattrs=(symbol=circlefilled size=13) markerfillattrs=(color=yellow)  
    markeroutlineattrs=(color=purple);  
  xaxis display=none;  
  yaxis display=none;  
run;
```

```
Title;  
Title "3e";
```

```
/* Plotting the x= End lat and y = end lng using statgraph with scatter */  
Title2 "x= End lat and y = end lng";
```

```
proc template;  
  define statgraph classscatter;  
    beginngraph;  
    entrytitle 'End Lat and End Lang';  
    layout overlay /;
```

```
scatterplot y=end_lat x=end_lng / datalabel=Start_Station_ID  
            markerattrs=(symbol=circlefilled color=black size=3px);  
endlayout;  
endgraph;  
end;  
run;
```

```
proc sgrender data=work.citibike template=classscatter;
```

```
run;
```