```
Data canada_pop;
  length province_name $21. province $2. ;
  label
  pop_2016 = "Population 2016"
  pop_2011 = "Population 2011"
  area_sqk = "Area Square Kilometres"
  pct_change = "% change in population 2011 to 2016"
  pop_density = "Population per square kilomtre";


  input  province$ province_name$ pop_2016 pop_2011 pop_density area_sqk;
  datalines;
10    Newfoundland 519716     514536      1.4   370514.08
11    Prince_Edward_Island 142907   140204      25.1  5686.03
12    Nova_Scotia 923598      921727      17.4  52942.27
13    New_Brunswick 747101    751171      10.5  71388.81
24    Quebec 8164361    7903001     6     1356625.27
35    Ontario 13448494  12851821    14.8  908699.33
46    Manitoba 1278365  1208268     2.3   552370.99
47    Saskatchewan 1098352    1033381     1.9   588243.54
48    Alberta 4067175   3645257     6.4   640330.46
59    British_Columbia 4648055      4400057     5     922503.01
62    Nunavut 35944     31906 0     1877778.53
61    Northwest_Territories 41786   41462 0     1143793.86
60    Yukon 35874 33897 0.1   474712.68
;
run;

Data canada_pop;
  set canada_pop;
  pct_change = 100 * (pop_2016 - pop_2011) / pop_2011;
Run;



*** reset all graphics options to default values;
goptions reset=all;

*** create a choropleth map with a title and footnote;
proc gmap data=canada_pop map=maps.canada2;
  id province;
  choro pop_2016;
  title "Canadian Population by Province, 2016";
  title2 "Using the Choropleth";
run;
quit;


*** reset all graphics options to default values;
goptions reset=all;

*** create a prism map with a title and footnote;

proc gmap data=canada_pop map=maps.canada2;
  id province;
  prism pop_2016;
  title "Canadian Population by Province, 2016";
```

```
  title2 "Using Prisms";
run;
quit;


*** reset all graphics options to default values;
goptions reset=all;

*** create a block map with a title and a footnote;
proc gmap data=canada_pop map=maps.canada2;
  id province;
  block pop_2016;
  title "Canadian Population by Province, 2016";
  title2 "Using Blocks";
run;
quit;]
```