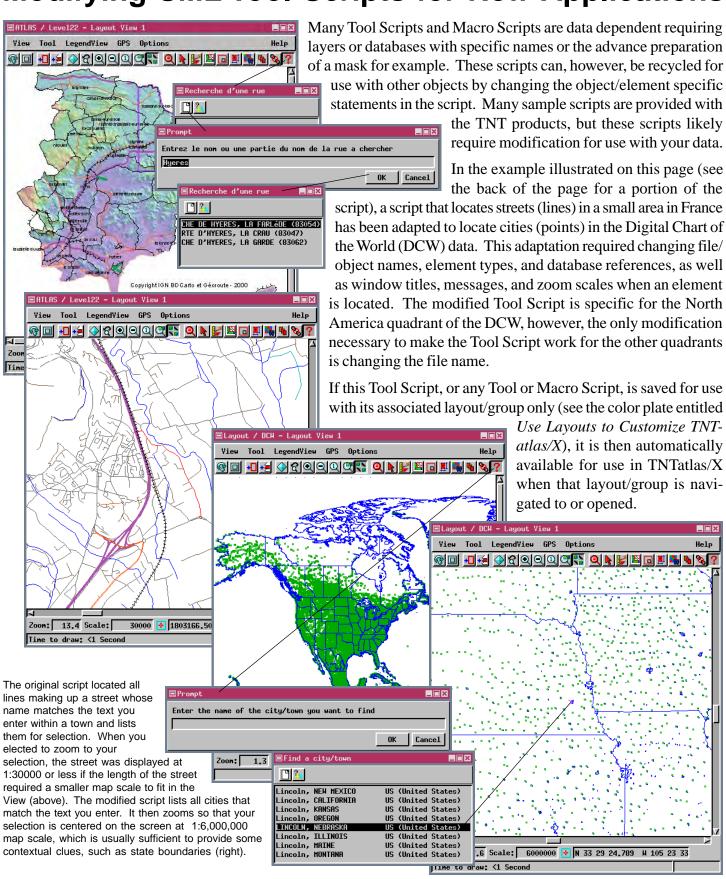
Modifying SML Tool Scripts for New Applications



Excerpt from script for finding streets

```
(original script available at microimages.com/freestuf/smlscripts.htm)
# ToolScript looking for the street$ entered by the user
         for i=1 to nline {
                                                        references to
                   curcode =
                                                       tables must be
V.line[linelist[i]].TRONCON_ROUTE.INSEE_COMD;
                                                       changed
                   if (curcode == codelist[selpos,1]) {
                             nstreetline = nstreetline+1;
                             ResizeArrayPreserve(streetline,
nstreetline);
                             streetline[nstreetline] = linelist[i];
         ViewSetMessage(View, NumToStr(nstreetline) + " lines found
for this street");
                                                      element type
         #Zoom in to the lines
                                                      references
         class VECTORLAYERLINES vII;
                                                      changed from
         vll = layer.Line;
                                                      lines to points
         vII.HighlightMultiple(nstreetline, streetline);
         View.DisableRedraw = 1;
         layer.ZoomToHighlighted();
                                                     zoom scale
         if (ViewGetMapScale(View) < 30000) {
                                                     changed to be
                   ViewSetMapScale(View, 30000);
                                                     reasonable for
                                                     new data
         View.DisableRedraw = 0;
         ViewRedraw(View);
}#DoZoom
# New Request
proc DoNew () {
         poslist.DeleteAllItems();
         nline = 0;
         ncode = 0;
         #asking to enter the name of a street (or a word contained in it)
         street$ = PopupString("Entrez le nom ou une partie du nom de
la rue a chercher", "");
                                                       text for
         if (street$ == "") return;
                                                       prompts is
         street$ = toupper$(street$);
                                                       changed
         #looking for a line containing street$ in its NOM_RUE_D or
NOM_RUE_G attributes of the TRONCON_ROUTE table
         for i=1 to NumVectorLines(V) {
                   #class DATABASE DB =
V.line[i].TRONCON_ROUTE;
                   if (V.line[i].TRONCON ROUTE.NOM RUE D$
contains street$ or V.line[i].TRONCON_ROUTE.NOM_RUE_G$ contains
street$) {
                             nline = nline+1;
                             linelist[nline] = i;
                   }#if
         ViewSetMessage(View, NumToStr(nline) + " lines found");
                             #no element corresponding found
                   PopupMessage("Aucune rue de l'échantillon de la
base de donnee ne contient ce mot!");
                   return;
         }
         #Some streets are found: find the different ones (by zip code)
         #Assertion: not 2 streets with the same name in a town
         #Limits: don't take into account the streets separating 2 towns
(the right zip code INSEE_COMD and the left one INSEE_COMG are
different)
         for i=1 to nline {
                   found = false:
                   curcode =
V.line[linelist[i]].TRONCON_ROUTE.INSEE_COMD;
           j=1;
```

Adapted script for finding cities

```
(modifications shown in red)
# ToolScript looking for the street$ entered by the user
         for i=1 to nline {
                   curcode =
V.point[linelist[i]].POareas.COUNTRY_OR;
                   if (curcode == codelist[selpos,1]) {
                              nstreetline = nstreetline+1;
                              ResizeArrayPreserve(streetline,
nstreetline);
                              streetline[nstreetline] = linelist[i];
          ViewSetMessage(View, NumToStr(nstreetline) + " lines found
for this street");
                                                you would likely also
         #Zoom in to the lines
                                                change the comments
         class VECTORLAYERPOINTS vII;
                                                to apply to the modified
         vII = layer.Point;
                                                script, but it is not
         vll.HighlightSingle( ptlist[ selpos ] );
                                                necessarv
         View.DisableRedraw = 1;
         layer.ZoomToHighlighted();
         if (ViewGetMapScale(View) < 6000000) {
                   ViewSetMapScale(View, 6000000);
          View.DisableRedraw = 0;
          ViewRedraw(View);
}#DoZoom
# New Request
proc DoNew () {
         poslist.DeleteAllItems();
         nline = 0;
         ncode = 0;
         #asking to enter the name of a street (or a word contained in
it)
          street$ = PopupString("Enter the name of the city/town you
want to find", "");
         if (street$ == "") return;
         street$ = toupper$(street$);
         #looking for a line containing street$ in its NOM_RUE_D or
NOM RUE_G attributes of the TRONCON_ROUTE table
         for i=1 to NumVectorPoints(V) {
                    #class DATABASE DB = V.point[i].PPPOINT;
                   if (V.point[i].PPPOINT.PPPTNAME$ contains
street$) {
                              nline = nline+1;
                              linelist[nline] = i;
                   }#if
          ViewSetMessage(View, NumToStr(nline) + " towns found");
         if (nline == 0) {
                             #no element corresponding found
                    PopupMessage("No cities found that contain that
word!");
                    return;
         #Some streets are found : find the different ones (by zip code)
         #Assertion: not 2 streets with the same name in a town
         #Limits: don't take into account the streets separating 2
towns (the right zip code INSEE_COMD and the left one INSEE_COMG
are different)
         for i=1 to nline {
                   found = false;
                   curcode =
V.point[linelist[i]].POareas.COUNTRY_OR;
```