## ties last Legend/les GP5 Options 어쩌면 씨는 이익러워인이라면도 ( 토토토토리리 바이) > Constalite 1800317,16 \*\*\*

the search criteria are listed. Double-click on the name of the street

you want to find or click on the Highlight the street icon.

## Sample SML Tool Script

## **Find Streets**

The Find Streets tool script locates and highlights streets you ask it to search for. You enter all or part of the street name to search for, and the tool script produces a list of all streets containing the text you entered. You then select the street you want to find and the script redraws the view at 1:30000 with the lines that form the street highlighted and centered in the View window. If all selected lines will not fit in the View at 1:30000, the View is redrawn at a smaller scale that fully contains the lines.

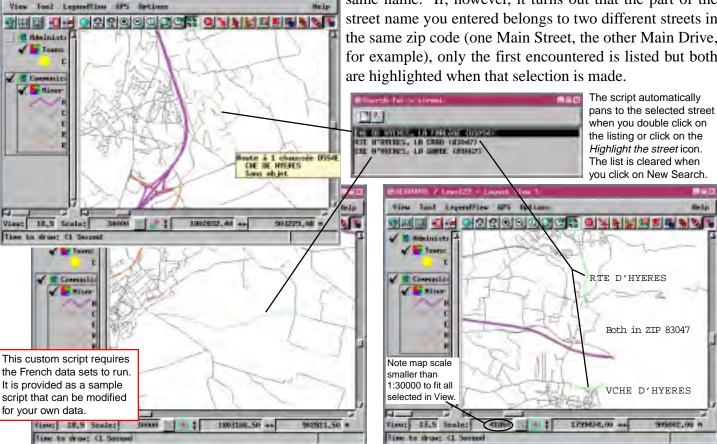
All lines that form the street are highlighted. The highlight colors for these lines are your designated selected and active element colors (Options / Colors). You may need to change these colors to take into account the drawing styles of the vector lines, which are purple, red, or black in this vector object. Thus, the default red highlight color

The New Search button opens a Prompt window so you can type in all or part of the name of the street vou want to locate. Click OK, and all streets that match

could not be distinguished from unhighlighted lines in some cases. For the purposes of this tool, you may want to set the active and selected colors to be the same so that the selected

street has a uniform appearance. The highlight color for the illustrations on this page is green.

The name of the town and the zip code are also provided in the list of streets found. The script assumes there are not two separate streets in the same zip code with the same name. If, however, it turns out that the part of the street name you entered belongs to two different streets in the same zip code (one Main Street, the other Main Drive, for example), only the first encountered is listed but both are highlighted when that selection is made.



Macro and Tool Scripts can be created using SML in any TNTmips process that uses a View window (Options / Customize from the View window menu bar). These scripts are then available from an icon, which you select or design, on the toolbar. Sample scripts have been prepared to illustrate how you might use these features, which are available only in TNTmips 6.4 or later, to assist with specific tasks you perform on a regular basis. If possible, the full script is printed below for your quick perusal. When a script is too long to fit on one page, key sections are reproduced below. The sample Tool Script illustrated can be downloaded from the SML script exchange at www.microimages.com/sml/ftpsmllink/TNT\_Products\_V6.4\_CD.

## Partial Script for Find Streets (street.sml)

```
# Zoom to selected position
proc DoZoom () {
              #Finding the element numbers of this street (not sure that they are sorted)
                                                                                                                               npts = NumVectorPoints(VTown)
              if (nline == 0) return:
                                                                                                                              ResizeArrayClear(townnames, ncode);
                                                                                zooms to
                                                                                 selected
              selpos = poslist.GetFirstSelectedPos();
              array streetline[1];
                                                                                elements
              nstreetline = 0:
                                                                                                                                            i = 1;
                                                                                                                                             found = false;
              for i=1 to nline {
                                                                                                                                             townnames[i] = 0; #init
                            curcode = V.line[linelist[i]].TRONCON_ROUTE.INSEE_COMD;
                            if (curcode == codelist[selpos,1]) {
                                          nstreetline = nstreetline+1;
                                          ResizeArrayPreserve(streetline, nstreetline);
                                          streetline[nstreetline] = linelist[i];\\
                                                                                                                                                           j = j+1;
              ViewSetMessage(View, NumToStr(nstreetline) + "lines found for this street");
              #Zoom in to the lines
              class VECTORLAYERLINES vll;
              vll = layer.Line;
                                                                                                                              }#i
              vll.HighlightMultiple(nstreetline, streetline):
              View.DisableRedraw = 1:
                                                                                                                              for i = 1 to ncode {
              layer.ZoomToHighlighted();
              if \ (ViewGetMapScale(View) < 30000) \ \{\\
                            ViewSetMapScale(View, 30000);
              View.DisableRedraw = 0;
              ViewRedraw(View);
}#DoZoom
                                                                                                                              poslist.SelectPos(1);
                                                                                                                }#DoNev
# New Request
                                                                                    clears list.
proc DoNew () {
                                                                                    prompts for
              poslist.DeleteAllItems();
                                                                                    new search
                                                                                                                # Close the window, switching to default tool
                                                                                    street, and
                                                                                                                proc DoClose () {
                                                                                    finds lines
                                                                                                                              if (setDefaultWhenClose) {
              #asking to enter the name of a street (or a word contained in it)
              street$ = PopupString("Enter all or part of the name of the street to search for", "");
                                                                                                                                             View.SetDefaultTool():
              if (street$ == "") return;
              street$ = toupper$(street$);
              #looking for a line containing street$ in its NOM_RUE_D or NOM_RUE_G attributes of
                                                                                                                # Called the first time the tool is activated
                            the TRONCON ROUTE table
              for i=1 to NumVectorLines(V) {
                                                                                                                func OnInitialize () {
                            #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$) {
                                                                                                                               dlgform.Width = 200;
                                          nline = nline+1;
                                          linelist[nline] = i;\\
                                                                                                                              class PushButtonItem btnItemNew:
                                                                                                                              class PushButtonItem btnItemZoom;
                                                                                      reports total
                                                                                      number of
              ViewSetMessage(View, NumToStr(nline) + " lines found");
                                                                                                                              btnItemNew.IconName = "new";
                                                                                      lines found by
              if (nline == 0)
                                          #no element corresponding found
                                                                                      search
                                                                                                                               btnItemZoom.IconName = "apply_query"
                            PopupMessage("No streets found containing this word!"):
                            return:
                                                                                                                              btnItemClose.IconName = "delete":
              #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
                                                                                                                               class XmRowColumn btnrowaction:
                            INSEE_COMD and the left one INSEE_COMG are different)
              for i=1 to nline {
                                                                                                                              btnrowaction.TopWidget = dlgform;
                                                                                                                              btnrowaction.TopOffset = 4:
                            curcode = V.line[linelist[i]].TRONCON_ROUTE.INSEE_COMD;
                                                                                                                               btnrowaction.LeftWidget = btnrowaction;
                while (!found and j<=ncode) { #looks if code already found
                                                                                                                              btnrowaction.LeftOffset = 8:
                                          if (codelist[j,1] == curcode) {
                                                                                                                              btnrowaction.RightOffset = 4;
                                                                                                                               class XmSeparator btnsep;
                                           }#if
                                          i = i+1;
                                                                                                                              btnsep.TopWidget = btnrowaction:
                }#while
                                                                                                                              btnsep.TopOffset = 4;
                            if (!found) { #new street
                                                                                                                               btnsep.LeftWidget = dlgform;
                                          ncode = ncode+1:
                                                                                                                              btnsep.RightWidget = dlgform;
                                          codelist[ncode,1] = curcode;
                                          codelist[ncode,2] = linelist[i];
                                                                                                                               poslist = CreateScrolledList(dlgform);
                            3#if
              }#i
```

```
#Retrieve the table containing the names of the towns
array townnames[ncode]; #VTown.point[townname[i]].ZONE_HABITAT.INSEE ==
              V.line[codelist[i,2]].TRONCON_ROUTE.INSEE_COMD
              curcode = V.line[codelist[i,2]]. TRONCON\_ROUTE. INSEE\_COMD; \\
              while (!found and j<=npts) {
    if (VTown.point[j].ZONE_HABITAT.INSEE == curcode) {
                                           townnames[i] = j;
              if (townnames[i] == 0) { #error
                            PopupMessage("Town name corresponding to " + NumToStr(curcode) + " not found");
              name$ = V.line[codelist[i,2]].TRONCON_ROUTE.NOM_RUE_D$;
              zip$ = " (" + NumToStr(codelist[i,1]) + ")";
town$ = ", " + street$ =
                toupper \$ (VTown.point[townnames[i]].ZONE\_HABITAT.TOPONYME\$);
              poslist.AddItem(name$ + town$ + zip$);
                                                           closes search
                                                           window and acti-
              setDefaultWhenClose = false;
                                                           vates default tool
dlgform = CreateFormDialog("Search for a street", View.Form);
WidgetAddCallback(dlgform.Shell.PopdownCallback,DoClose);
                                                                       creates
                                                                       search
                                                                       dialog
btnItemNew = CreatePushButtonItem("New search",DoNew);
btnItemZoom = CreatePushButtonItem("Highlight the street", DoZoom); \\
btnItemClose = CreatePushButtonItem("Close",DoClose);
# Icon button rows are automatically attached to their parent form on the left
# and right. The "right" widget is unattached by setting the attachment to itself.
btnrowaction = CreateIconButtonRow(dlgform,btnItemNew,btnItemZoom); \\
btnsep = \overline{CreateHorizontalSeparator(dlgform)};
        (see street.sml for full script)
```