

Notepad++ web page <https://notepad-plus-plus.org/> Note Notepad++ is Windows only

From Download page:

- download Portable version (ie zip)
- unzip in your preferred location on your computer
- Start Notepad++ and install the following plugins via menu Plugins>Plugins Admin...>Available and Install the following:
 - PythonScript
 - QuickText
 - Snippets

From WHW Solution website - <http://www.whwsolution.co.uk/tag/vectorscript/>

select post "Vectorworks: Notepad++ for Vectorscript"

- download "notepad plus extras.zip" file
- unzip in your preferred location on your computer
- copy the following files to your Notepad++ installation directory

Note: Make a copy of the following files if you already have an existing customisation

From/To "Notepad plus" directory
contextMenu.xml
shortcuts.xml
stylers.xml

From/To "Notepad plus>userDefinLangs" directory
vectorscript.udl

From/To "Notepad plus>autoCompletion" directory
pascal.xml

From/To "Notepad plus>plugins>Config" directory
QuickText.conf.ini (config settings file)
QuickText.ini (config settings file)

NppSnippets.ini (config settings file)
NppSnippets.sqlite (SQLite file)

PythonScriptStartup.cnf

From/To "Notepad plus>plugins>NppSnippets" directory
NppSnippets.sql (SQL file)

From/To "Notepad plus>plugins>PythonScript>scripts" directory
Vectorscript (Copy folder)

Start Notepad

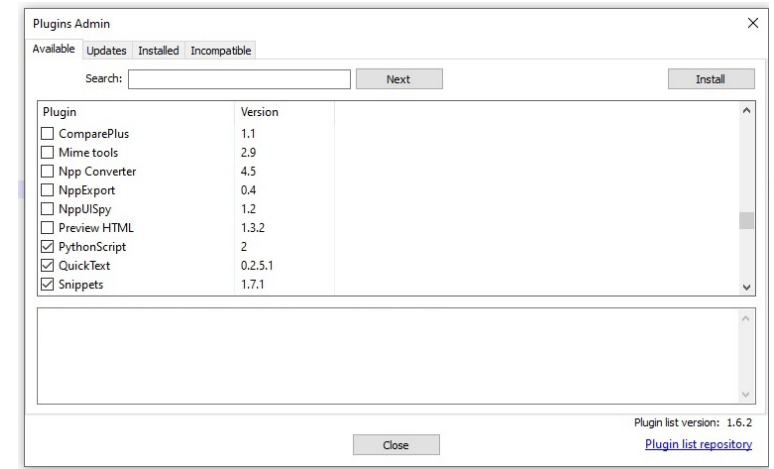
- set Preferences

Auto-Completion>Auto-Insert - Set ON for brackets, square brackets, curly braces, single and double quotes

New Document - Pascal

- set Language to Pascal

Note set to Vectorscript to view code in a pretty format if required although plugins Snippets and Quicktext will become inactive



Name	Date modified
autoCompletion	03/06/2023 11:08
backup	29/08/2023 20:50
functionList	10/06/2023 14:22
localization	15/05/2023 05:12
plugins	06/07/2023 10:54
themes	15/05/2023 05:12
updater	15/05/2023 05:12
userDefineLangs	10/06/2023 14:21
change	15/05/2023 05:02
config	01/09/2023 12:08
contextMenu	08/07/2023 11:13
doLocalConf	30/08/2021 22:58
langs.model	13/04/2023 07:17
langs	07/06/2023 21:33
license	15/08/2021 01:20
notepad++	15/05/2023 05:12
nppLogNulContentCorruptionIssue	11/07/2023 09:39
nppLogNulContentCorruptionIssue	05/12/2021 04:28
readme	26/05/2021 23:57
session	01/09/2023 12:08
shortcuts	08/07/2023 11:22
shortcuts.xml.v8.5.2	29/12/2022 18:17
stylers.model	28/03/2023 11:47
stylers	04/07/2023 21:11
tabContextMenu_example	29/12/2022 18:17
toolbarIcons	14/03/2023 16:12
v852NoNeedShortcutsBackup	07/06/2023 12:27



Auto-completion for Vectorscript via Pascal language

```

139 g_Makesolid := PMAKESOLID;
140 g_Flattop := PFLATTOP;
141 SetRField( pioH, pioname, k_FLDFACETLENGTH, '' );
142 setrf
143
144 fx SetPrimaryDim
145 fx SetProportionalBinding
146 fx SetRecord
147 fx SetResourceTags
148 fx SetRField
149 fx SetRFieldOpt
150 fx SetRightItem
151 fx SetRoofAttributes
152 fx SetRoofEdge

```

Type start of Vectorscript call for hint

```

138
139 g_Makesolid := PMAKESOLID;
140 g_Flattop := PFLATTOP;
141 SetRField( pioH, pioname, k_FLDFACETLENGTH, '' );
142 SetRField(
143
144 msgstr :=
145
146 end; {init}
147

```

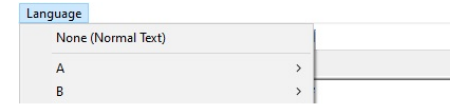
Type left bracket to get call definition

```

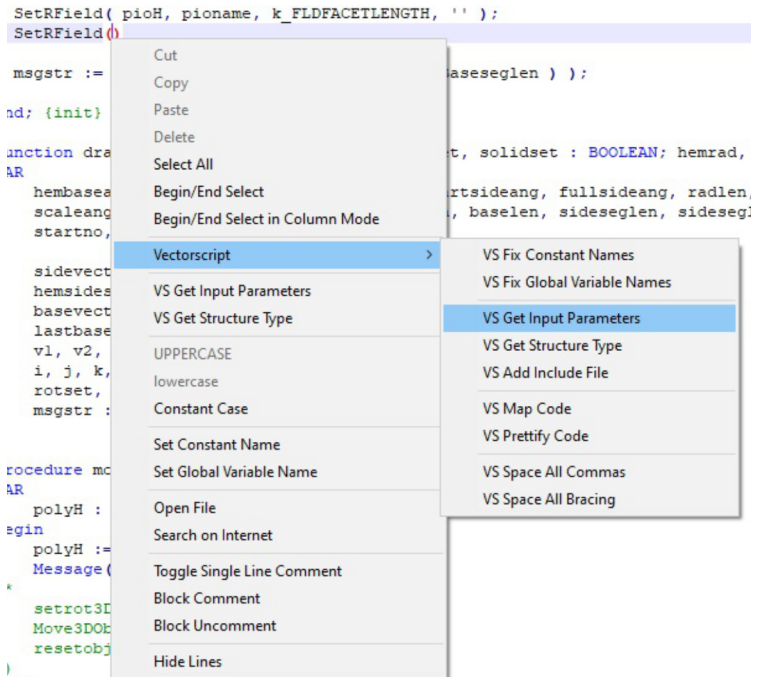
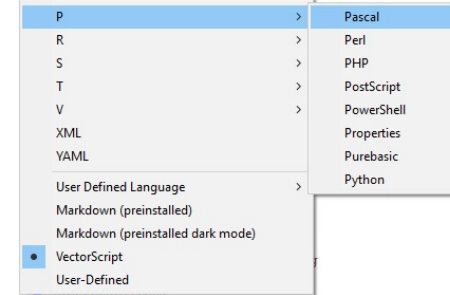
138
139 g_Makesolid := PMAKESOLID;
140 g_Flattop := PFLATTOP;
141 SetRField( pioH, pioname, k_FLDFACETLENGTH, '' );
142 SetRField( h HANDLE, record DYNARRAY, field DYNARRAY, value DYNARRAY )
143
144 msgstr := Concat( 'Length : ', Num2StrF( g_Baseseglen ) );
145
146 end; {init}
147

```

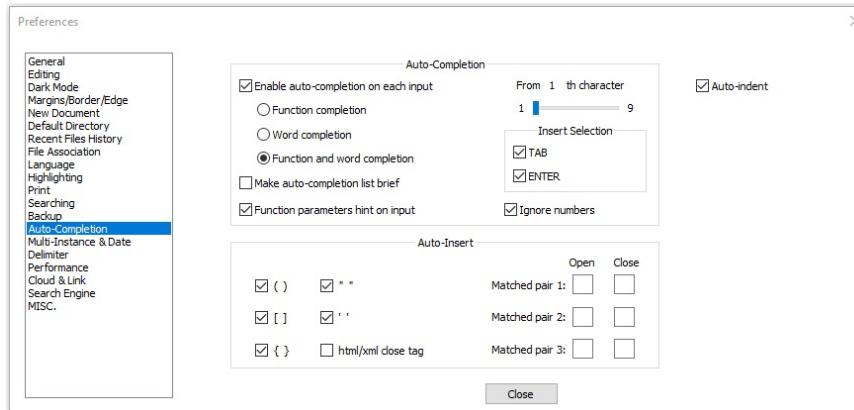
Right click to display popup menu and select "VS Get Input Parameters"



Select Pascal language to activate auto-completion



Setup auto-completion preferences for Auto-Insert characters or preferred display options



User Defined Language for Vectorscript

For specific code colouring set Language to "Vectorscript"

However there are disadvantages compared to "Pascal" language

- Autocompletion for Vectorscript is inactive
- Plugins "Snippets" and "Quicktext" cannot select language "Vectorscript"
- Code folding and colouring may not work as expected.

Swap to "Pascal" language for plugin Vectorscript options.

```

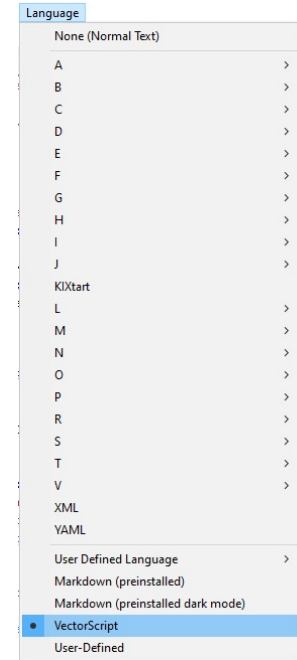
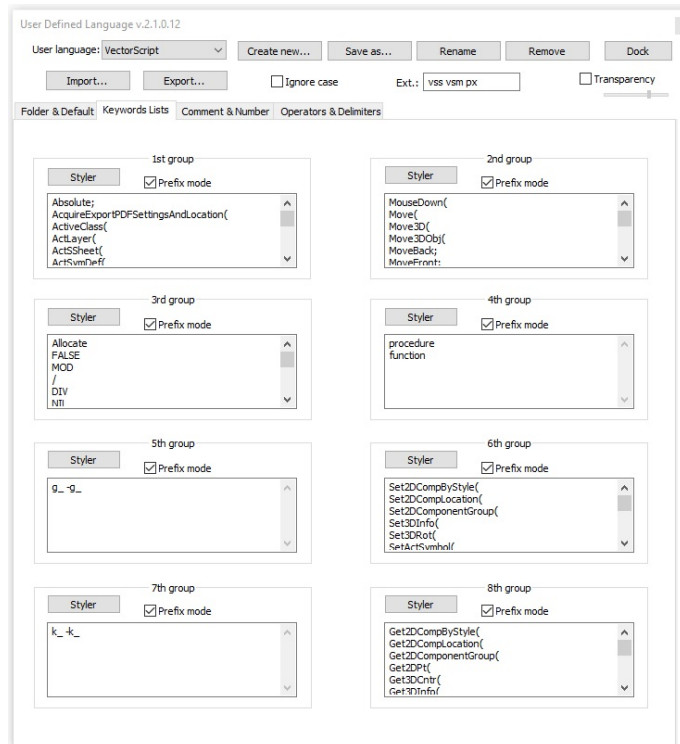
259
260 ClosePoly;
261 BeginGroup;
262 rotset := FALSE; k := 1;
263
264 for i := 1 to sidefacetno do begin
265   radlen := sidevectors[ i ].x;
266   radhgt := sidevectors[ i ].y;
267
268   if ( i = 1 ) then begin (base)
269     for j := 1 to basefacetno do begin (store first set of vertices)
270       v1 := basevectors[ j, k ] * radlen;
271       lastbasevectors[ j ] := v1;
272     end;
273
274     baselen := Distance( lastbasevectors[ 1 ].x, lastbasevectors[ 1 ].y, lastbasevectors[ 2 ].x, lastbasevectors[ 2 ].y );
275
276     if solidset then begin (draw base)
277       BeginPoly3D;
278       for j := 1 to basefacetno do begin
279         v1 := lastbasevectors[ j ];
280         Add3DPt( v1.x, v1.y, radhgt + zoff );
281       end;
282       EndPoly3D;
283       if newrotset then moverot( LNewObj );
284     end;
285
286     if ( skirthgt > 0 ) then begin (draw skirt)
287       skirtoff := skirthgt;
288
289       for j := 1 to basefacetno do begin
290         if ( j = basefacetno ) then fno := 1
291         else fno := j + 1;
292
293         v1 := basevectors[ j, k ] * radlen;
294         v2 := basevectors[ fno, k ] * radlen;
295
296         if basedivset then begin
297           v5 := ( v2 - v1 ) / basedivs;
298           v6 := v1;
299           for m := 1 to basedivs do begin
300             v7 := v6 + v5;
301
302             BeginPoly3D;
303             Add3DPt( v6.x, v6.y, radhgt + zoff + skirtoff );
304             Add3DPt( v7.x, v7.y, radhgt + zoff + skirtoff );
305             Add3DPt( v7.x, v7.y, radhgt + zoff );
306             Add3DPt( v6.x, v6.y, radhgt + zoff );
307             EndPoly3D;
308             v6 := v7;
309           end;
310         else begin
311           BeginPoly3D;
312           Add3DPt( v1.x, v1.y, radhgt + zoff + skirtoff );
313           Add3DPt( v2.x, v2.y, radhgt + zoff + skirtoff );

```

```

147 function drawhemisphere( trianglelet, flatopset, solidset : BOOLEAN; hemrad, hemhgt, skirthgt, taperfactor : REAL; basefacetno,
148 VAR
149   hembaseang, hemsidesang, startbaseang, startsideang, fullsideang, radlen, radhgt, zoff, halfbaseang, skirtoff : REAL;
150   scaleang, tempfullang, tempang, koff, vlen, baselen, sideseglen, sideseglen2 : REAL;
151   startno, endno, offno : INTEGER;
152
153   sidevectors : array[ 1..k_MAXSIDEFACETS ] of VECTOR;
154   hemsidesangles : array[ 1..k_MAXSIDEFACETS ] of REAL;
155   basevectors : array[ 1..k_MAXBASEFACETS, 1..2 ] of VECTOR;
156   lastbasevectors : array[ 1..k_MAXBASEFACETS ] of VECTOR;
157   v1, v2, v3, v4, v5, v6, v7, v8, v9, v10 : VECTOR;
158   i, j, k, m, fno : INTEGER;
159   rotset, basedivset : BOOLEAN;
160   msgstr : STRING;
161
162
163 procedure moverot( objH : HANDLE );
164 VAR
165   polyH : HANDLE;
166 begin
167   polyH := GetPlanarTransform( objH );
168   Message( 'set' );
169
170   (*
171   setrot3D(objH,0,0,0,nx1,ny1,nz1);
172   Move3DObj(objH,x1,y1,z1);
173   resetobject(objH);
174   *)
175 end;
176
177 function getCentre( rad, hgt, cxoff : REAL ) : VECTOR;
178 VAR
179   p1, p2, p3 : VECTOR;
180 begin
181   p1.x := -rad; p1.y := 0; p1.z := 0;
182   p2.x := -cxoff; p2.y := hgt; p2.z := 0;
183   p3.x := rad - cxoff * 2; p3.y := 0; p3.z := 0;
184   getcentre := ThreePtCenter( p1, p2, p3 );
185 end;

```

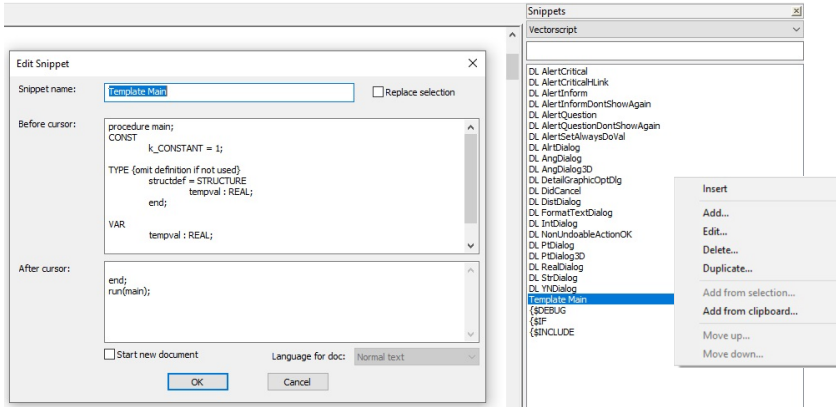
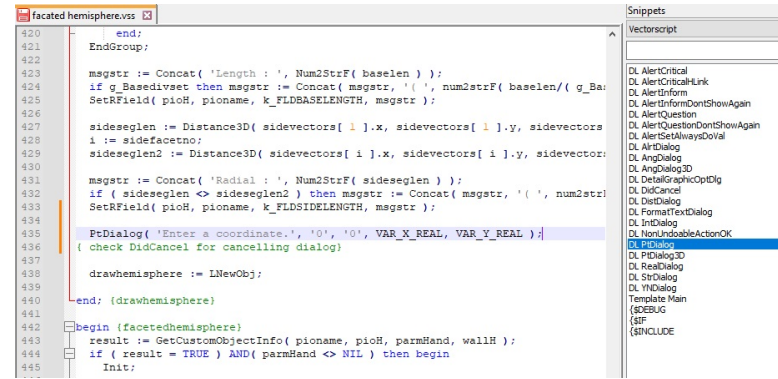
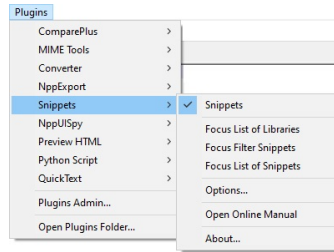


Notepad plugins

Note: The following plugins do not work with the "Vectorscript" Language selected

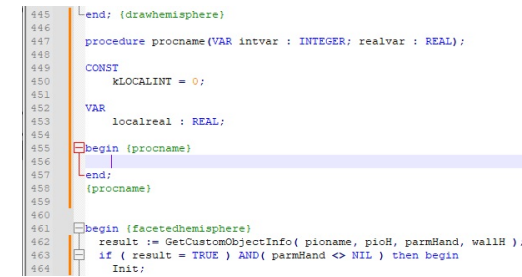
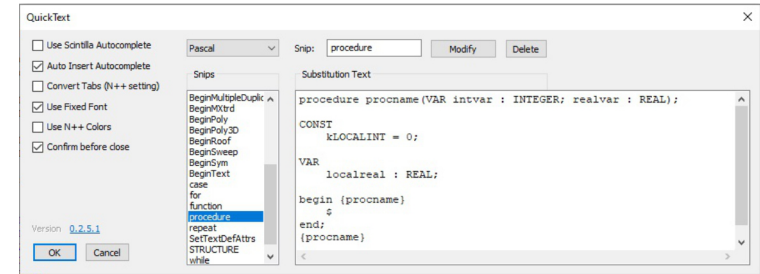
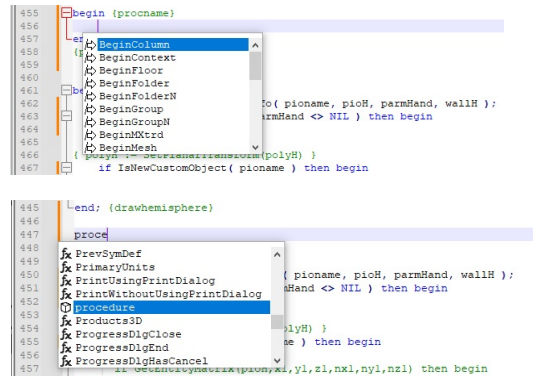
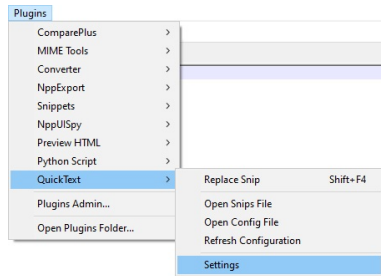
Snippets

- # Usage
- # Double click entry to add code at cursor position in active document.
- # Right click to display popup menu options.
- # Select Edit to change existing code snippet.
- # Select Add to add new code snippet.



Quicktext

- # Usage
- # Set Preferences for auto-completion
- # Type snip name in code for auto-completion replacement
- # Type Shift-F4 to get a popup list of snips and select



Pythonscript plugins for Vectorscript (use at own risk)

VS Add Include File

Usage
Search for Include file
Inserted line below cursor and add include reference to current file

VS Fix Constant Names

Usage
Convert constant name k<Uppercase char><name remainder> to k_<Uppercase All chars>

VS Fix Global Variable Names

Usage
Convert global variabel name g<Uppercase char><remainder chars> to g_<Uppercase char><remainder chars>

VS Get Input Parameters

Usage
From selected word or previous unselected word at cursor position
Check if routine exists and append defined parameters within brackets

VS Get Structure Type

Usage
Display list of inbuilt types and STRUCTURE types
Select from list and insert at cursor position
If cursor located at a period then check params of previous word as STRUCTURE type
otherwise select a Structure type in current file or INCLUDE file

VS Map Code

Usage
Append external INCLUDE file references after run() command
References include constants, types, procedures and functions
Check console for file errors

VS Prettify Code

Usage
Checks case of inbuilt Vectorscript routines
Keeps leading line indents but pads each element by a single space
Note - Check code validity in Vectorworks as plugin may not be totally bug free

VS Space All Bracing

Usage
Search for line with leading bracket
Pad leading and trailing brackets with a single space

VS Space All Commas

Usage
Search for line with leading bracket
Pad leading and trailing brackets with a single space

