Introduction

SWAG (SourceWare Archival Group) is a collection of source code and program examples for the PASCAL programming language. The material has been donated by various PASCAL programmers from around the world, who desire to contribute to the advancement of one of the greatest programming languages there is. MANY THANKS to all who have contributed. As such, **NO CHARGE OF ANY KIND IS PERMITTED FOR THIS WORK.**

The material has been collected from various network conferences worldwide, and organized according to subject. New material is added quarterly, and new SWAG packets are available from various BBS sources on a FIRST call basis.

Getting Started

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Getting Started

The program **SWAGWIN.EXE** is a WINDOWS 3.x executable program that will allow you to read, extract or print the contents of SWAG packets. These packets are organized according to subject, with each one containing a number of PASCAL "snipets" on that subject. In the rest of this document, I'll refer to the program as "SWAGWIN".

The simple way to install the software is to use the SETUP program that came with the distribution archive.   The SWAG packets should be placed ALL together in a directory on your disk.   It is recommended that you create a single directory named **'SWAG'**.

- use the DOS command to create a directory: **mkdir c:\swag**.
- Place the .HLP file and SWAGWIN.EXE in this directory.
- Create a sub-directory : **mkdir c:\swag\files**
- Unpack the distribution archives and place all of the files with the extension of "*.SWG" in this directory.

Start WINDOWS and create an ICON for **SWAGWIN**. It can be placed in any GROUP that you choose. Also, you can use the SETUP program included in the distribution archive to setup **SWAG for WINDOWS** for you.

General Overview

SWAG files (**.SWG**) are highly compressed archives using a specialized LZH format :

```
SwagHeader =
RECORD
HeadSize  : BYTE                        size of header
HeadChk   : BYTE                        checksum for header
HeadID    : ARRAY (1..5) OF CHAR        compression type tag
NewSize   : LONGINT                     compressed size
OrigSize  : LONGINT                     original size
Time      : WORD                        packed time
Date      : WORD                        packed date
Attr      : WORDtab                     file attributes and flags
BufCRC    : LONGINT                     32-CRC of the Buffer
Swag      : STRING(12)                  stored SWAG filename
Subject   : STRING(40)                  snipet subject
Contrib   : STRING(35)                  contributor
Keys      : STRING(70)                  search keys
FName     : PathStr                     filename (variable length)
CRC       : WORD                        16-bit CRC (follows FName)
END;
```

Each archive contains any given number of snipets each with a header as described above, and following is a buffer of compressed text. You **CAN NOT** read **.SWG** files with any normal archive program due to the structure of the header. However, the SWAG SUPPORT TEAM provides numerous utility programs that will allow you to manipulate the files in various ways. Additionally, you'll find various sources in SWAG to play with the headers if you want to.
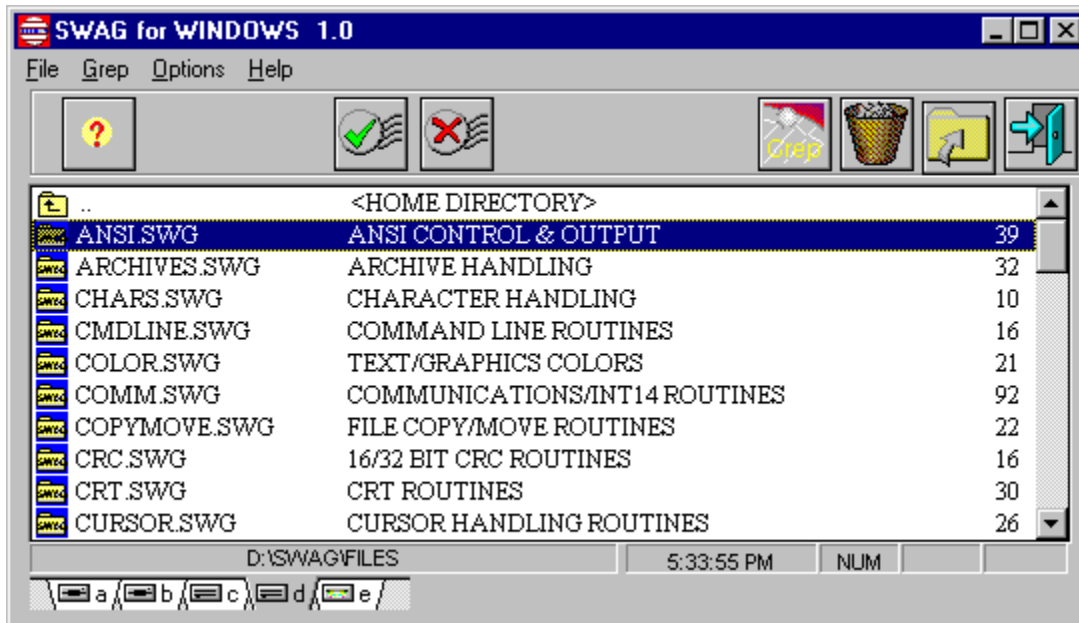
Main Files Screen

Using the program is really very simple. Just execute it, and you will be presented with a directory of all of the **.SWG** files in the directory that **SWAG for WINDOWS** is located in. If you have **.SWG** files elsewhere on your disk, or for that matter, any disk on your system, you can move around the disk to find them by selecting the ".." ⬆ file which will take you to the PARENT directory. Use the HOME, END and the arrow keys to maneuver around.

ALSO,

The directory window   is search key sensitive. This means   that if you have **.SWG** files   or directories listed in   the directory box, you   can just type the name of the file you want. For example, pressing 'A' will place you at the first   entry starting with   'A'. Press 'N',   and you will   jump the the entry with 'AN...'   if you have one. If   NOT, you will jump the   first file starting with the letter 'N'.

Click on any area to display what happens for real.

SWAG for WINDOWS 1.0		
File Grep Options Help		

⬆ ..	<HOME DIRECTORY>	
ANSI.SWG	ANSI CONTROL & OUTPUT	39
ARCHIVES.SWG	ARCHIVE HANDLING	32
CHARS.SWG	CHARACTER HANDLING	10
CMDLINE.SWG	COMMAND LINE ROUTINES	16
COLOR.SWG	TEXT/GRAPHICS COLORS	21
COMM.SWG	COMMUNICATIONS/INT14 ROUTINES	92
COPYMOVE.SWG	FILE COPY/MOVE ROUTINES	22
CRC.SWG	16/32 BIT CRC ROUTINES	16
CRT.SWG	CRT ROUTINES	30
CURSOR.SWG	CURSOR HANDLING ROUTINES	26

D:\SWAG\FILES	5:33:55 PM	NUM	
a b c d e			

SWAG files are available at any of the SWAG support sites listed in the BBS list.   Additionally, we upload the new snipets to COMPUSERVE, EXEC-PC and CRS in Canada with each release.

If you are an INTERNET user, you can ALWAYS find the files at the following:

SWAG World Wide Web Address
        http://users.aol.com/SWAGWWW/swag.html
SWAG Direct FTP
        ftp://users.aol.com/SWAGWWW/files
Vassa University (Finland)
        ftp://garbo.uwasa.fi/pc/turbopas

Questions, comments and contributions to SWAG are always welcome.   They can be sent to any of the SWAG SUPPORT team at their email addresses :

Gayle Davis - GDSoft
gdavis@betacon.com OR 72067.2726@compuserve.com

Kerry Sokalsky - FalconTech Consulting
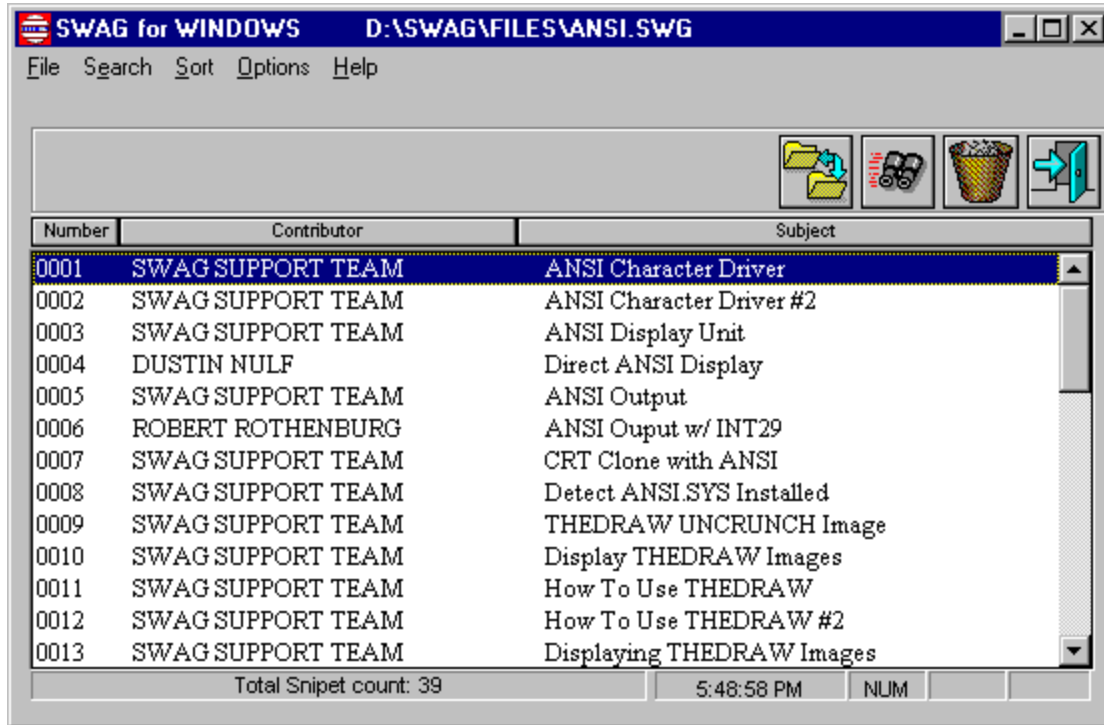**kerry.sokalsky@canrem.com**

Jeff Fanjoy (Micky) - MatrixSoft(tm)
jfanjoy@interlog.com

SWAG Snipets Screen

This is the Snipet List screen.   Click on any of the buttons or screen areas to display more information about this screen.

SWAG for WINDOWS	D:\SWAG\FILES\ANSI.SWG

File   Search   Sort   Options   Help

Number	Contributor	Subject
0001	SWAG SUPPORT TEAM	ANSI Character Driver
0002	SWAG SUPPORT TEAM	ANSI Character Driver #2
0003	SWAG SUPPORT TEAM	ANSI Display Unit
0004	DUSTIN NULF	Direct ANSI Display
0005	SWAG SUPPORT TEAM	ANSI Output
0006	ROBERT ROTHENBURG	ANSI Ouput w/ INT29
0007	SWAG SUPPORT TEAM	CRT Clone with ANSI
0008	SWAG SUPPORT TEAM	Detect ANSI.SYS Installed
0009	SWAG SUPPORT TEAM	THEDRAW UNCRUNCH Image
0010	SWAG SUPPORT TEAM	Display THEDRAW Images
0011	SWAG SUPPORT TEAM	How To Use THEDRAW
0012	SWAG SUPPORT TEAM	How To Use THEDRAW #2
0013	SWAG SUPPORT TEAM	Displaying THEDRAW Images

Total Snipet count: 39   5:48:58 PM   NUM

Snipets Viewer Screen

This is the Viewer screen.   Click on any of the buttons or screen areas to display more information about this screen.

```
SWAG for WINDOWS                                    _ □ ✕

File  Clipboard  Search  Options

┌─D:\SWAG\FILES\ANSI.SWG────────────────┐
  Date:        │ Date : 05-28-93 (13:33)          │    ┌─────────────────┐
                                                       │ ⏮  ◀  ▶  ⏭ │
  Contributor: │ SWAG SUPPORT TEAM                │    └─────────────────┘
  Subject:     │ ANSI Character Driver #2         │    ┌─────────────────┐
                                                       │ 🖊 ✕ 📋 ▶ 🚪 │
  Keys:        │ ANSI,CHARACTER,DRIVER            │    └─────────────────┘
└───────────────────────────────────────┘

UNIT Ansi;


INTERFACE



USES Crt, Dos;


CONST
      RecANSI : BOOLEAN = FALSE;


PROCEDURE AnsiWrite (ch : CHAR);
PROCEDURE AnsiWriteLn (S : STRING);

 1:1     Total: 306     Top: 1     Bytes: 7986     Item: 2 of 39
```

Keystroke Command Summary

Certain shortcut keys are defined in **SWAG for WINDOWS**. This makes it a little eaiser to get around inside the program :

CtrlQF - Brings up the Search function

CtrlL   - Find Next

<CR>   - read the snipet or file

ESC   - Quit

Summary

At this point you should be able to enjoy **SWAG for WINDOWS**.   The library contains a ton of really useful material, and you'll find that you won't be without it.

We   hope that   you find   the READER   easy to   use, and   the SWAG   material valuable in development of your PASCAL programs.

ENJOY !!!!! and GOOD PROGRAMMING !!!

Gayle Davis, Kerry Sokalsky and Jeff Fanjoy
SWAG Support Team

Using the GREP function

The GREP (search) function. This is   a VERY POWERFUL   and useful function that allows you to find anything in the SWAG snipet collection.   Entire text of all the snipets can be searched or you can do just a header search which is very fast.

Click on any area to display more info about dialog.
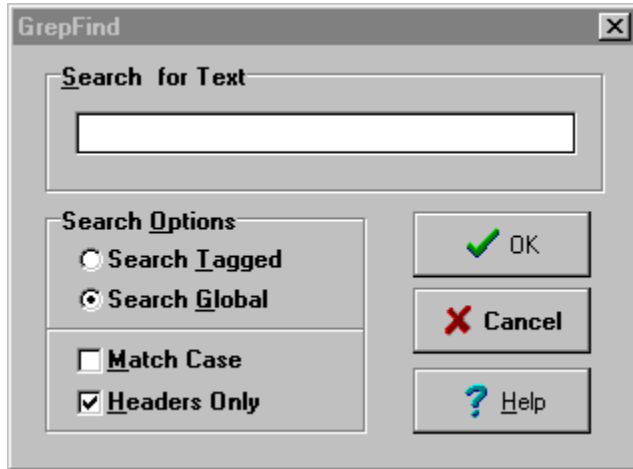
Enter a string to search for. You may search for a multiple occurrence of substrings using BOOLEAN operators AND (&) OR (|). For example, a search for THIS&THAT|THEM&THOSE would return all snipets containing both ORed phrases THIS&THAT OR THEM&THOSE.

In BOOLEAN Algebra, the AND operator takes precedence over the OR operator (except when using parentheses). This is NOT the case with the GREP function. You can use the PARENTHESES () to dictate which portion of the search string is to be processed first. If multiple levels of parentheses are used, the order is RIGHT to LEFT, starting with the innermost set of parentheses, wherever they occur.

As an example, in the phrase ((this|that)&(them&those)), (them&those) would be processed before (this|that)) innermost to outermost. In other words, all snipets will be returned containing THIS or THAT AND they also will contain (THEM and THOSE).

Within a set of parentheses, order will be left to right. Construction of the search string itself requires combining the desired substrings together with the desired BOOLEAN operators. Without the parentheses, the search string will be processed logically. THIS|THAT&THEM&THOSE will return all of the snipets that contain THIS plus the ones that contain THAT & THEM & THOSE. You can see that this is totally different than what you'll get by using the parentheses.

Additionally, you can also include a date in the format MM/DD/YY, and ONLY records AFTER this date will be included. If you enter JUST the date, ALL SWAG snipets AFTER this date will be included. For example, entering CURSOR|ANSI&CRT|05/08/93 would search the SWAG packets for matches for CURSOR OR (ANSI AND CRT) occurring AFTER 05/08/93. Entering JUST 05/08/93 at the prompt would bring back ALL snipets AFTER 05/08/93 REGARDLESS of the subject.

Enter an empty string as the search string, and READER will return all snipets since the LAST SWAG release.

SWAGWIN will search ALL of the SWAG packet HEADERS in the CURRENT directory for matches based on your criteria. A processing box will appear, and all occurrences of your search string(s) or date matches will be written to a NEW SWAG file. Initially, this file is named GREPSWAG.SWG, and will be in the current directory. Upon completion of this GREP process, you will be asked for the file name. Enter any name AND directory you choose, and the file will be RENAMED and moved to that directory. Pressing ESCAPE WILL NOT save a file at all. This process allows you to create SWAG files containing ANY combination of material that you please.

You can   ALSO search the ENTIRE   SWAG snipet buffer for   data. Just enter a tilde (~) character as the FIRST character on the search line. For instance to   find all   snipets containing   CRT, you   would enter   ~CRT on the search line. ONLY   the header of snipets is searched for matches.   This a way you can look at all snipets by a certain contributor. You can also use multiple search criteria   here. For instance,   ~GAYLE DAVIS|GUY MCLOUGHLIN| JOE   BLOW would bring back   everything for each of these   persons. This search method is VERY fast as on the headers have   to be read. By the way, the same rules about AND/OR searching apply when search just the headers.

Beginning with   version 3.0, we added   KEYS to the SWAG   header. This makes the searching function work MUCH faster,   and you can use the EDIT HEADER function in the viewer screen to edit these search keys.

Click one of these buttons to do what is indicated.

Files Screen Menu Selections

File
Delete (CtrlD)
Delete the current highlighted file.
Exit (AltX)
Exit **SWAG for WINDOWS**

Grep
Opens up a <u>find dialog box</u> to search the snipet files for text.

Options
Exit On Escape
Allows SWAGWIN to exit when the escape key is pressed.
Font
Allows the selection of the font for the files window.
Edit SWAGWIN INI File
Uses NOTEPAD to display and edit the setting in the SWAGWIN INI File.
Set Extract Directory
Permits the selection of the default directory that will be used to extract snipets.
Reset Window Defaults
Resets the window coordinates to system defaults for SWAGWIN.
As you exit each screen of SWAGWIN, the size and location of each
window is saved in the INI file.   This set everything back to the "factory" settings.

Help
Contents
Displays the **SWAG for WINDOWS** help file.
About
The about box.
Credits
Displays the credits and e-mail addresses of the SWAG SUPPORT TEAM.

Snipet Screen Menu Selections

File
Open (Enter)
Opens the currently highlighted snipet
Delete (CtrlD)
Delete the current highlighted snipet.
Exit (AltX)
Exit the snipet window

Search
Find Text (F3)
Search for text in the snipet list.
Find Next (CtrlL)
Find the next occurance of the previous search.

Sort
Number
Sort snipet list by number.
Contributor
Sort snipet list by contributor.
Subject
Sort snipet list by subject.

Options
Font
Allows the selection of the font for the snipet window.

Help
Displays the **SWAG for WINDOWS** help file for the snipet window.

Viewer Screen Menu Selections

File

Extract (CtrlE)
Extracts this snipet to your disk.

Kill (CtrlK)
Kills this snipet.

Edit Header (CtrlH)
Edit the snipet header information.

Print
Prints the snipet text on your printer.

Print Setup
Select the output options for your printer.

Exit (AltX)
Exit the viewer window

Clipboard

Copy (CtrlC)
Copy the highligted text to the WINDOWS clipboard.

Select ALL
Selects ALL of the snipet text.

Search

Find Text (F3)
Search for text in the snipet text.

Find Next (CtrlL)
Find the next occurance of the previous search.

GoTo Line (F4)
Go to a given line number in the text.

Options

Tab Expansion
Toggles tab expansion feature.

Tab Size
Set the tab size for the tab expansion feature.

Font
Allows the selection of the font for the viewer window.

Help

Displays the **SWAG for WINDOWS** help file for the viewer window.

The is the directory ONE LEVEL lower that the current directory. (ala WINDOWS 95) You can get there quickly by using the **BACKSPACE** key.

SWAG for WINDOWS was written by Gayle Davis, GDSoft entirely in BORLAND DELPHI. The program may be copied and distributed freely providing that no fee is charged and it is not part of a package for which a charge is made.

Please report all bugs, suggestions, and problems to Gayle Davis:

 CompuServe ID #72067,2726.

 e-mail address 72067.2726@compuserve.com **OR** gdavis@betacom.com

Links to this Help file

Toggles the Tag for the currently highlighted file. You can also use the "spacebar" to do this.

Click here to see WINDOWS system information or the current time and date.

Exit **SWAG for WINDOWS**.

Delete the highlighted **.SWG** File.

The current SWAG files path is shown here.

Double Click on any listed **.SWG** file to open it.

UnTag All currently tagged files.

Rename the currently highlighted file.

Click one of these to change the current disk drive.

This is the main body of the snipet.   Use the scrollbars to move up or down, or you can also use Up/Down arrow keys and PgUp/PgDown.   Text can be marked using the mouse, or by holding down the SHIFT key, and using the arrow keys.   Once text is marked, it can be inserted in the WINDOWS clipboard by pressing CTRL+INSERT.

Shows information about the snipet, size, current line and column number.

Search the snipet for text.

The snipet header displays the date description, contributor, and keys. You can change this information by clicking on the EDIT SNIPET HEADER button.

Extract the snipet to your disk.

Edit the snipet header. Here you can change the contributor, keys and description.

Find NEXT text.

First, Last, Next or Previous snipet.

KILL this snipet.

Exit the viewer screen.

Exit the snipet window.

KILL the highlighted snipet.

Click on one of these to Sort the snipet list by Number, Contributor or Subject.

Search for text in the snipet list.

Double click on any highlighted item to view the snipet.

Extract the snipet to your disk.

Displays the total snipets in the **.SWG** file.