Copyright © 1995 FLY'N THINGS(tm)yesyesPCXDXF.W__001yesyesyesyesyesnonoyesyesTRU EPCX To DXF Conversionpcxdxf

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Why Does Text Look Jagged? HELP!

Help file produced by **HELLLP!**, a product of Guy Software, on 03/31/95 for Philip Koopman.

The above table of contents will be automatically completed and will also provide an excellent cross-reference for context strings and topic titles. You may leave it as your main table of contents for your help file, or you may create your own and cause it to be displayed instead by using the I button on the toolbar. This page will not be displayed as a topic. It is given a context string of __ and a HelpContextID property of 32517, but these are not presented for jump selection. HINT: If you do not wish some of your topics to appear in the table of contents as displayed to your users (you may want them ONLY as PopUps), move the lines with their titles and contexts to below this point. If you do this remember to move the whole line, not part. As an alternative, you may wish to set up your own table of contents, see Help under The Structure of a Help File.

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Welcome!





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The FLY'N THINGS™ PCX-To-DXF program converts the scanned image from a monochrome PCX file's dots into horizontal-line vectors. A line is drawn starting with the first black dot found on a horizontal scan line and continues until a white dot is found -- the last black dot found is the end of the line. This gives a vector-format image made up of horizontal lines.

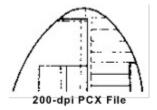
The conversion-program output is in the DXF-file format for direct entry into most CAD and Illustration programs. One traces over these vector-line segments to create the final line-art drawing.

The instructions are written for conversion of <u>aircraft 3-View drawings</u> for CAD and Illustration programs. However, the same techniques can be used for conversion of any type of scanned images in the PCX file format.

What Is The PCX-To-DXF Conversion Program?

Unfortunately, with rare exceptions like AutoCAD Release 12, CAD programs do not directly accept scanned images. The scanned dots must be converted into a vector format for the CAD program.

The FLY'N THINGS™ PCX-To-DXF program converts the scanned image from a monochrome PCX file's dots into horizontal-line vectors. A line is drawn starting with the first black dot found on a horizontal scan line and continues until a white dot is found -- the last black dot found is the end of the line. This gives a vector-format image made up of these horizontal lines. The conversion-program output is in the DXF-file format for direct entry into most CAD programs. One traces over these vector-line segments to create the final line-art drawing.





Partial View Of Aircraft Fin

Vector lines, as used for CAD and Illustration programs, are actual lines that have specific start and end points. These data are stored in a drawing data base and tell the program to precisely draw a line from Point A to Point B. One might compare it to plotting a line on graph paper. The line starts at x = 1, y = 4 and ends at x = 12, y = 6. For 3-D images, a third "z" point is added for depth information if the CAD program has 3-D capability.

Conversion of large scanned images does take time. The FLY'N THINGS ™ PCX-To-DXF program can run in the background, provided you have set Windows for multitasking. Simply open the conversion program and start the conversion process. Then, reduce the program to an Icon. When the PCX-to-DXF conversion completes, a message box pops up showing that the file is done.

See Also

1/72nd-Scale WWII Scanned 3-View Aircraft Drawings Scanned Images

Using Drawing Snaps

How To Use Converted Images With CAD Programs

How To Use Converted Images With Illustration Programs

Low-Resolution Conversion/Display

DXF File-Format Problems

Making A New DXF Header File

Scanned Images

Scanned images, called raster images, are just a series of dots representing the original image. The scanning process sweeps across the original image in a series of horizontal lines of dots, much like the lines one sees on a monochrome TV set. Normally, the vertical distance between these lines of horizontal dots is the same as the horizontal dot spacing. The quality of the image depends on the number of dots per inch. A horizontal line that is one-inch long scanned at 100 dpi would have 100 evenly spaced dots. Scanning the same line at 300 dpi gives 300 evenly spaced dots.

An important value for a scanned-image file is the scan resolution. The amount of detail in a scanned image is limited to the optical resolution of the scanner. This number, expressed in dots per inch (dpi) for monochrome files, is simply the optical resolution of the scanner. One might think of the scanning process by imagining putting a piece of window screen over the original image. Each hole in the screen is a scan dot. The finer the screen's mesh, the more dots per inch and the more precise the image.

For line art, like a scanned 3-view aircraft drawing, a monochrome scan file is made. There is one dot per scan-bit resolution. Where the original image is black, a black dot, called a pixel, is recorded by setting that dot ON. For white areas, the pixel is OFF. Increasing the scan resolution, by software interpolation, above the optical resolution of the scanner does not add detail -- it just adds more dots to the image.

Scan files come in what might seem to be a bewildering array of types, like TIF, BMP, and PCX formats. All still contain the same image data for a monochrome (line art) image ON or OFF dots. These file types just define how these data are recorded in the file.

Many of these file formats were developed to make the scan file smaller by compressing the scan data. While file compression doesn't save any computer memory when working on the image, it does make a drastic difference in the stored scan-file size.

For model design, a scan resolution of 300 dpi is about the minimum for good results. At low scan resolutions, like 100 dpi, a line at an angle looks like a series of stair steps, rather than a straight line. However, a scanned image at 300 dpi does give a monster file. Typically, an uncompressed monochrome scan file for an 8- by 10-inch scan at 300 dpi gives a file of about 750,000 bytes. Compressed, in the PCX format, the same file is only 21,000 bytes in size.

A common file-compression method is to simply count the number of horizontal dots in a specific scan line that are on or off. The scan file then contains a series of numbers showing how many dots in the scan-line sequence that are on or off. For model-design use, the most common file types are the TIF (Tag Image Format), BMP (Windows Bit-Map format) and PCX.

See Also

Using Drawing Snaps
How To Use Converted Images With CAD Programs
How To Use Converted Images With Illustration Programs
Low-Resolution Conversion/Display
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Using Drawing Snaps

Each element of the converted image is a straight line. An original vertical line in the scanned drawing converts to a series of small horizontal lines stacked one above the other. Set the CAD program's "Object Snap" to CENTER and select a suitable APERTURE size for the lines you are working with. Zoom in and start drawing the CAD line at the center of the topmost line. Change the zoom to the bottom of the line segments and snap the other end of the CAD line to the middle of the bottom line.

For some drawings, you may find it easier to use small circles drawn with the circle's center "snapped" to the midpoint of the conversion lines. Then, zoom out and "connect the dots" by snapping between centers of the circles. In other cases, like for centers of a wheel, you might wish to zoom in and place a CAD POINT at the wheel center. Zoom out, and draw a center-and-radius circle by snapping to the center of the wheel and another point placed on the outer edge of the wheel.

For curved lines, like the sweep of the nose of an aircraft, place a series of POINTS or circles along the scan-conversion lines. Connect these points with a polyline. Then, use CAD's ability to curve fit a polyline, generating a smooth curve that passes through all of the points you initially set.

Many Illustration programs, like Micrografx Designer and DRAW!, have snaps that are similar to those of CAD programs. Most of the above methods will work. In some cases detail data, like the exact angle of a line, may not be available. Usually the illustration programs allow for visual rotation of a group of lines and snaps can be set to a grid as in CAD. Unlike some CAD programs, curve fitting may also be visual. Generally most illustration programs provide for *Bézier* curves with control points to curve fit a polyline.

See Also

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How To Use The DXF Conversions With CAD Programs

Vector lines, as used for CAD and Illustration programs, are actual lines that have specific start and end points. These data are stored in a drawing data base and tell the program to precisely draw a line from Point A to Point B. One might compare it to plotting a line on graph paper. The line starts at x = 1, y = 4 and ends at x = 12, y = 6. For 3-D images, a third "z" point is added for depth information if the CAD program has 3-D capability.

Unfortunately, with rare exceptions like AutoCAD Release 12, CAD programs do not directly accept scanned images. The scanned dots must be converted into a vector format for the CAD program.

The FLY'N THINGS™ PCX-To-DXF Conversion program converts the scanned image from a monochrome PCX file dots into horizontal-line vectors. A line is drawn starting with the first black dot found on a horizontal scan line and continues until a white dot is found -- the last black dot found is the end of the line. This gives a vector-format image made up of these horizontal lines. The conversion-program output is in the DXF-file format for direct entry into most CAD programs. One traces over these vector-line segments to create the final line-art drawing.

Getting It Straight

A common problem with scanned images is that the image isn't exactly straight -- like the center line of the fuselage isn't quite horizontal on the side view. This is caused by a variety of problems. Obviously, if the original scan is at an angle, then all horizontal and vertical lines will also be at an angle. Care in making the original scan corrects many of these problems.

However, other factors are a work. It's common to find a 3-View drawing that has the original views not drawn exactly square with each other -- much the same problem as the top and side views of a fuselage aren't the same length. In some cases one finds that the original drawing was actually made up of several parts that were pasted together before making the printing plate. And, since most scans are from printed images, the camera lens used to make the original printing plates adds its distortions, too.

One method to help get a scanned image straight is to break the different views into individual parts. Advanced image-processing software, like <u>Micrografx Picture Publisher</u>, can rotate a scanned image with precision of 1/10th of a degree. However, accuracy of rotation is still limited by the scan resolution. A precise rotation is still limited to a single dot -- a long center line on a top view may still not be quite vertical or horizontal.

Start with a scanned image as straight as possible. Then, trace over the image to establish center lines or reference lines for each view, even if they aren't exactly vertical or horizontal. Don't make the mistake of using the computer program's ability to make perfect vertical and horizontal lines. You may find that long vertical center line is right on at one and as much as 1/8th inch off at the other. If you were to enlarge the drawing eight times, then that error increases to one inch.

After adding these lines, measure the angle of each view's center or reference line. Then, rotate all of a each view's vectors so that the center or reference lines are exactly horizontal or vertical. Then trace over the image for your final drawing.

Hint To Speed Up CAD Redraws, Put The Side, Top And Front Views On Different Layers. Turn Off And Freeze Unused Layers During Tracing. To Decrease The Drawing Size,

Delete The DXF Line Segments After Tracing.

See Also

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How To Use The DXF Conversions With Illustration Programs

In general, you can use the DXF files made by the FLY'N THINGS™ PCX-To-DXF Conversion program with most illustration programs that accept AutoCAD standard DXF files. However, CAD programs work in units, and illustration programs generally use specific measurements, like 1/100 of an inch. This can cause the image from the DXF file to be too large when imported into an illustration program.

To compensate, the PCX-To-DXF program can be set to make the DXF conversion to the actual size of the original scanned image. This method is a bit slower since the DXF file data must be in decimal fractions, rather than integer units; files scanned at 300-dpi would generate DXF file data in increments of 1/300th of an inch. For faster, and more accurate conversion, it is suggested that you use scanned images with resolutions that are even numbers, like 200- or 400-dpi scans.

See Also

1/72nd-Scale WWII Scanned 3-View Aircraft Drawings
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DXF File-Format Problems

Some CAD and illustration programs tested were not completely compatible with the AutoCAD DXF-file format. This may vary with different versions of these same programs. The common problem is that some programs, while listed as DXF compatible, will not accept the AutoCAD "Entites Only" DXF file that does not have the complete file-specification header.

An option to add this full DXF header is included in the FLY'N THINGS™ PCX-To-DXF Conversion program. These header data are simply copied from the Ascii -text file: DXFHDR.TXT. The file-header data provided has been tested for compatability with AutoCAD LT For Windows, Visual CADD 1.0 and Micrografx Designer 4.1 TE.

For other CAD programs, that require the full DXF header, you may need to change file DXFHDR.TXT to contain a DXF header from your specific CAD program.

See Also

Making A New DXF Header File
Scanned Images
Using Drawing Snaps
How To Use Converted Images With CAD Programs
How To Use Converted Images With Illustration Programs

Making A New DXF Header File

► To Make A New DXF Header File:

First, make a backup of DXFHDR.TXT by renaming it DXFHDR.SAV. Then, open a new drawing in your CAD or illustration program. Draw a single line anyplace on the page. Export (for some programs you may have to use: Save As...) the drawing as a DXF file. Copy, or rename, the file to DXFHDR.TXT. Open this file with the Windows Notepad. Delete the ENTITIES section starting with:

```
O Delete From This Point To The End Of The File SECTION
2
ENTITIES
0
LINE
8
Layer-1
6
CONTINUOUS
......Section omitted for clarity
0
ENDSEC
0
EOF Last Statement In DXF File
```

Delete To The End Of The File

Save the modified file. Make sure that it is in the same directory as FLY'N THINGS™ PCX-To-DXF Conversion program. If you use another text editor, make sure you save the file as text only with line breaks.

Sample DXF File From Visual CADD 1.0

```
Start Of Header
SECTION
 2
HEADER
 9
$ACADVER
 1
AC1009
 9
$INSBASE
10
0.0
20
0.0
30
0.0
 9
$EXTMIN
Part Of Header Deleted
```

```
For Clarity
TABLE
 2
VIEW
70
 0
ENDTAB
 0
ENDSEC
 0
SECTION
 2
BLOCKS
 0
                   End Of Header
ENDSEC
▶ Delete From This Point To The End Of The DXF File
   SECTION
    2
   ENTITIES
    0
   LINE
    8
   Layer-1
   6
   CONTINUOUS
    5
   10
   9.415067
   20
   43.219113
   30
   0.0
   11
   14.325613
   21
   43.219113
   31
   0.0
    0
   ENDSEC
    0
   EOF
                Last Statement In DXF File
```

See Also

How To Use Converted Images With CAD Programs How To Use Converted Images With Illustration Programs **DXF File-Format Problems**

1/72nd Scale WWII Scanned 3-View Aircraft Drawings

WWII Allied And Axis Aircraft Over 500 Types From 12 Countries

Plan Codes:

- 1. Detail Panel Markings And Structure; Original Drawing Is One 8-1/2 x 11 Sheet
- 2. Detail Panel Markings And Structure; Original Drawing Is Two 8-1/2 x 11 Sheets
- 3. Detail Panel Markings And Structure; Original Drawing Is Three 8-1/2 x 11 Sheets
- A. Basic Outlines Only No Detail Panel Markings; One 8-1/2 x 11 Sheet
- B. Basic Outlines Only No Detail Panels; Original Drawing Is Two 8-1/2 x 11 Sheets
- C. Basic Outlines Only No Detail Panels; Original Drawing Is Three 8-1/2 x 11 Sheets

Index Notes:

- 1. All Multiple-Sheet Drawings Are Combined Into ONE 11 x 17 Sheet At Reduced Size.
- Early Drawings Marked As Basic Outlines Do Include Control Surfaces And Major Structure Points. Many Of The Later Aircraft Basic-Outline Drawings DO Include Reasonable Fuselage Detail.
- 3. ALL Drawings Have A "Scale" Ruler And Include Airfoil And Fuselage Sections.
- 4. Drawings Followed By "SPLIT" Are Reduced -Size, And Split Across Two Pages. We Cannot Guarantee That The Two Parts Will Be An Exact Match ORDER ONLY IF IT'S THE ONLY DRAWING YOU CAN FIND.

INDEX:

The Hypertext 3-View Index is currently available on AOL as file: FTBOOKS.ZIP It may also be available on other services, too, as many of our programs and E-Books have been uploaded by others. The Index is also available in standard text format we'll be glad to E-Mail you a copy. Please see the Order Blank for obtaining the Hypertext, PDF and printed versions of the Index by mail.

DRAWING COST:

For E-Mail Orders and uploads to AOL Members of drawing sets -- 3-View Drawings in PCX format - the cost is \$10 US for the basic set. Each additional drawing page is \$5.00 US. All two- and three-page drawings are combined into a single, reduced-size, 11 x 17 drawing.

For mail orders, the cost for the basic set is US\$15, with US\$5 for each additional drawing page. Add US\$3.50 shipping and handling. Mail orders include a printout of all drawings and data, a plastic holder for prints and the diskette(s). Our standard disk is a 1.44-Mbyte (HD), 3-1/2-in. floppy disk. US Shipments are by Priority Mail. PLEASE SPECIFY WHAT SIZE DISK if ordering by mail!

We will try our best to supply special disk formats for IBM-Compatible software. Let us know what you need and we'll convert the files with any format available for Micrografx's Picture Publisher 5.0a. The standard CAD set that has the 300-dpi 3-View drawing for PCX-to-DXF conversion.

E-Mail Service:

For our overseas friends, please contact us for the shipping costs. We can transmit via InterNet E-Mail with ZIPped UUENCODEd files compatible with PCs and Unix systems. Please remember that these files are large and take a good deal of time to transmit. In ZIPped format, a single one-sheet set is about 700 kbytes. Our Internet Gateway presently limits us to 32-kbyte files, so a typical set will come to you in about 32 parts. Transmit time presently costs \$3.00 per hour at 14.4k baud.

TERMS:

All prices are as of 1 January 1995. All prices are subject to change without notice.

We will copy/scan your order when received; upload is done when we receive your

payments in cash or Money Order. Sorry, no personal or company checks accepted. The same terms apply to mail orders. If the aircraft is already scanned, we try and upload/ship in 48 hours. But please allow two weeks total time for delivery, as many of these plans must be carefully scanned and restored.

All images are copyrighted. Permission is granted ONLY for non-commercial personal use. All rights reserved, including file/disk duplication in any form, mechanical or electronic. They may not be duplicated in any form for sale. If you wish to use the 3-views for plan documentation, like a Peanut-Scale model plan, contact us and we'll be happy to work something out.

See Also

Order Blank Index Menu

Selected Software Programs And Suppliers

(January 1995)
PCX-To-DXF Has Been Tested With These Programs

Autodesk Retail Products GenericCADD 2D and 3D 11911 North Creek Parkway SouthAutoCAD LT For Windows Bothell, WA 98011-9914 (800) 228-3601

Micrografx 1303 Arapaho Richardson, TX 75081 (800) 733-3729 Extension 5050 Designer, Picture Publisher, Windows Draw & Graphic Works

Numera Software Corporation 1501 Fourth Ave., Suite 2880 Seattle, WA 98101 (800) 622-8142 **Visual CADD 2-D For Windows**

Basic Program Features

AutoCAD LT Windows-based CAD With Limited 3-D

Imports/Exports All AutoCAD DXF/DWG File Formats & WMF Windows Metafiles

Micrografx Designer (Illustration) Windows/Layers, DXF & Scanned-Image

Formats, Like PCX, GIF, TIF, WMF, etc.

Micrografx Picture Publisher Windows Bit-Mapped Scan & Image

Processing. Image Rotation.

GenericCADD 2D and 3D DOS-based CAD Systems

Visual CADD Windows 2-D CAD System; Reads

& Writes AutoCAD DWG, DXF And

Generic CAD GCD files.

NOTE: Some other CAD programs may need a DXF add-on module at extra cost. Please check with the software suppliers for current specifications before buying ANY software.

See Also

Scanned Images
Using Drawing Snaps
How To Use Converted Images With CAD Programs
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Memory And Hard-Disk Requirements

Any method of scan conversion does need a fast computer with plenty of memory and hard-disk space. High-resolution scanned images can take up over a megabyte of storage. Programs like the FLY'N THINGS ™ PCX-To-DXF Conversion also generate huge files, as the DXF-file program output format is in Ascii-text, like the files made by Windows Notepad.

Once the converted image is in the CAD program, disk space and computer memory also must be considered. Normally, most CAD programs make a backup file of the original. This temporarily doubles the amount of disk space needed for a drawing.

Typically, an 8- x 10-inch drawing scanned at 300 dpi, generates a DXF file of between 8 and 10 megabytes. As is obvious, the faster the computer and the more memory available the better, to process these large graphics files. Most of the new Windows-based graphics and CAD programs need at least 8-Mbytes memory to run efficiently. A 33-MHz 80386 or 80486 microprocessor is generally considered the minimum, with a 66-MHz 80486 DX2 microprocessor preferred.

One can use older computers, like a 80386SX running at 16 MHz, but performance is very slow. For most CAD and Illustration programs, a math co-processor adds speed. For some, like DOS-based AutoCAD, the program will not run without the co-processor.

See Also

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HELP!

•	If you have never used the Windows Help System before, just press key for detailed instructions.
8	Or, with the mouse, pull down the Help Menu by clicking on it and then click on the menu item How To Use Help.
	For keyboard access, or if you have mouse problems, hold down the Key and press the key. RELEASE BOTH KEYS, then press the key.
•	See Also

Click Here for: Basic Help Instructions

Basic Help Instructions

Help Basics

You can find information in a Help file by using the index or the Search feature. To return
to the Help Index after you read the instructions below, click on the button or
press the
key.
For detailed instructions on how to use Help: Press the
key.
To return to this Help File, click on How To Use Help's
button or press the 🖳 key.
To scroll in the Help window
Do one of the following:
1. Press the
or or
keys.
2. Use the scroll bars with the mouse.
To use the Help Index, Do one of the following:
8
1. Click on an underlined word or graphic.
2. Or, press the
key until you highlight the topic
you want, then press the key.
To return to the previous topic
Click the button or press the
key.
-
► To open the Search feature in Help
Search
Click on the button or press the

key.		
► Menu Names		
File menu names and commands are shown in the text as LARGE colored letters with the underlined letter showing the key to press. For: Help you would press the letter key.		
► Keyboard-Shortcut Examples:		
For keyboard access, or if you have mouse problems, hold down the Key and press the key. RELEASE BOTH KEYS, then press the key. This keyboard sequence may also be shown as: then, press Or as: &		
1. Click on the key. 2. From Help's File menu, choose Exit by pressing the key and the key, release them, and then press the key.		

Choosing a Menu Command

You can choose commands with the mouse or by pressing key combinations.

To choose a menu command



- 1. Point to a menu name.
 - 2. To display the menu, click the left mouse button.
 - 3. Point to a command name.
 - 4. Click the command name with the left mouse button.



1. To make the menu bar active, press the

key.

- 2. To display a menu, press the underlined letter in the menu name.
- 3. To choose a command, press the underlined letter in the command name.

A command name followed by the three-dot ellipsis (...) indicates that a dialog box appears when you select that item.

■ Tip

Many Windows programs assign some commands to shortcut keys so you can choose the commands without displaying a menu. If a command has shortcut keys, the keys appear in the menu next to the command.

See Also

Keyboard Access To Menus The Conversion Display Menu Bar

Closing a Menu

You can close a menu without choosing a command.

	To close a menu do one of the following:
	Click outside the menu.
	Press or
Note:	After you press to close a menu, the menu name is still selected. To return to your document, press again
•	See Also

The Conversion Display

Program Control Menu



A Click With The Mouse



"Drops Down" The Control Menu

Located at the left end of the title bar of an application window.

To display the commands that control the size and position of an application window, click the application Control-menu box or press:



See Also

Keyboard Access To Menus

The Conversion Program Menus

All Menus

- **The Conversion Display**
- **Keyboard Access to Menus**

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- **Open**
- **Exit**

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- **Actual Size**
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- **Register The Program**

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Program Environment & Dialog Boxes

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- The About Dialog Box

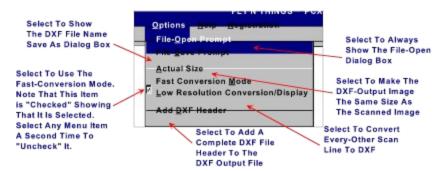
Program Image-Processing Buttons

- Program Control Buttons
- PCX Header
- Show PCX File
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- Stop Processing

Program Window & Buttons

- The Conversion Title Bar & Menu Bar
- Program Control Menu
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- <u>Minimize</u>
- Restore
- Move
- Close
- Title Bar
- Menu Bar
- Check-Box Bar
- Disabled "Grayed" Out Controls

Options Menu



Select the option text to enable/disable that function. When an option is active, a check mark appears next to the text, as shown above for the Fast Conversion Mode. Selecting any of the processing options automatically checks or unchecks the "Check Box" for that function on the program display.

See Also

The Conversion Display

File-Open Prompt (Options Menu)

Select this option to automatically have the File-Open Dialog box appear when any processing button, like Make DXF File, is selected. If the File-Open Dialog option is not selected, file processing is done with the current open file.

- This option can only be selected prior to starting a file conversion.
- See Also

Options Menu Check-Box Bar The Conversion Display

File-Save Prompt (Options Menu)

Select this option to automatically have the File-Save-As Dialog box appear when any file-output processing button, like Make DXF File, is selected. This lets you change the name of the processed output file. If the File-Save Dialog option is not selected, the output file name is the same as that of current open file. For example, without this option selected, the DXF output from an open file named AIRMDL.PCX would automatically be saved as AIRMDL.DXF

- You MUST select this option before starting a file conversion.
- See Also

Options Menu Check-Box Bar The Conversion Display

Actual Size (Options Menu)

Use this option to set the physical dimensions of the output DXF file data to that of the scanned image. It is provided primarily for use with Illustration programs. Selecting this option sets the dot-to-line conversion resolution to that of the input PCX file. If the input file is scanned at 200 dpi, the the DXF line output will be measured in increments of 1/200th of an inch.

For maximum precision, do not use this option with scans that are not an even number, like 300 dpi. Division of odd numbers results in the line precision measured in non-ending decimal numbers; a 300-dpi scanned image gives increments of 0.0033333333... etc.

If this option is NOT SELECTED, the DXF-file output is in units. A series of 223 horizontal dots in the scanned image generates a line that is 223 units long. Set the value of these units to whatever dimension you wish in your CAD program. For example, if your CAD program is set so that each unit is equal to 1/100th of an inch, the line would measure 2.23-inches long. Spacing between the DXF lines matches the horizontal resolution, so there is not image distortion.

- You MUST select this option before starting a file conversion.
- See Also

Options Menu
Check-Box Bar
The Conversion Display
How To Use Converted Images With CAD Programs
How To Use Converted Images With Illustration Programs

Fast Conversion Mode (Options Menu)

Use this option to disable the display of the PCX file being processed. It increases the conversion speed by eliminating the time needed to convert the input data to the Windows display format.

■ This option CAN be selected/deselected during file conversion.

You may turn this option on or off during processing to see what part of the image is currently being processed. Processing does wait until the Options Menu is closed.

See Also

Options Menu
Check-Box Bar
The Conversion Display
How To Use Converted Images With CAD Programs
How To Use Converted Images With Illustration Programs

Low Resolution Conversion/Display (Options Menu)

Selecting this option changes vertical resolution of the DXF-output file and the visual processing display, if enabled. When selected, the low-resolution option changes the file processing so that every other line of horizontal dots in the PCX file is processed. It DOES NOT change the horizontal resolution of the DXF ouput.

This option CAN be selected/deselected during a file conversion.

You may wish to use this option during processing to decrease the size of the output DXF file. Many areas of a drawing may not need closely spaced DXF lines, like large sections that just have vertical or angled straight lines. For critical areas, like a horizontal centerline, deselecting this option restores the full vertical resolution.

See Also

Options Menu
Check-Box Bar
The Conversion Display
How To Use Converted Images With CAD Programs
How To Use Converted Images With Illustration Programs

Add DXF Header (Options Menu)

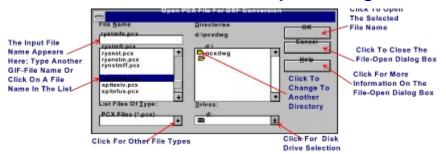
This option is provided to add a complete DXF header to the DXF-output file. The normal program output is a DXF, Entites-Only file the file does not contain any header information, like line type(s) or view ports. Some CAD and Illustration programs may not accept a DXF file without these data.

Choosing this option adds the contents of an external DXF header file to the conversion output. The header file included with this program was generated with AutoCAD LT for Windows. You can substitute a header file from your own CAD program if you wish.

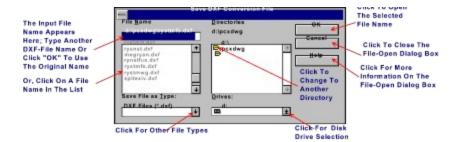
- You MUST select this option before starting a file conversion.
- See Also

Options Menu
Check-Box Bar
The Conversion Display
Scanned Images
Using Drawing Snaps
How To Use Converted Images With CAD Programs
How To Use Converted Images With Illustration Programs
DXF File-Format Problems
Making A New DXF Header File

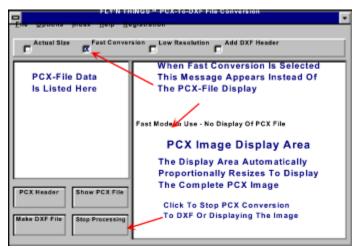
File-Open Dialog Box



File-Save Dialog Box



The PCX-To-DXF Conversion Display



►See Also

The Program Title Bar & Menu Bar
Title Bar
Check-Box Bar
Menu Bar

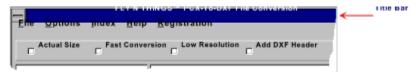
The Conversion Title Bar, Menu Bar & Check-Box Bar



►See Also

The Conversion Display
Title Bar
Menu Bar

Title Bar



Located along the top of a main Application Window and contains the name of the application and/or document. To move the window, drag the title bar.

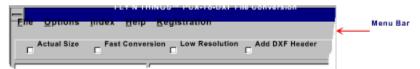
Note: You can also move dialog boxes, like File Open, by dragging their title bars.

A title bar may contain the following elements:

- Application Control-menu button
- Image Control-menu button
- Maximize button
- Minimize button
- Name of the application
- Name of the image file
- Restore button
- See Also

The Conversion Display

Menu Bar



Located below the title bar, along the top of the application window, and contains all menu names.

•	To view all the commands in a menu, do one of the following:			
Ø	Click the menu name.			
	Press			
پپ	&			
Ш	where n is the underlined letter			
	in the menu name. For example, press 🔲 &			
_	to open the File menu.			
•	Choosing A Processing Option-Menu Selection automatically sets the corresonding check box.			
•	See Also			

Choosing A Menu Command
The Conversion Display
Check-Box Bar

Check-Box Bar



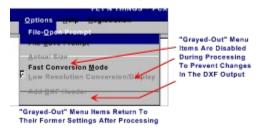
- Choosing A Check Box Option Automatically "Checks" The Corresonding Options-Menu item.
- See Also

Check Boxes
Grayed Out Buttons, Menu Items & Check Boxes
Options Menu
Actual Size
Fast Conversion Mode
Low Resolution Conversion/Display
Add DXF Header

Check Boxes



Grayed Out Buttons, Menu Items & Check Boxes







Keyboard Access To Menus

_	Hold down the key and then press letter key				
Ш	of the UNDERLINED Letter in the menu name.				
Whe	en the menu opens, release the key and the				
Щ	Then, Press the letter				
Ш	key for the underlined letter of the menu item you wish to use.				
NOTE: Pressing just the key closes any open menu.					
Exa	mple:				
•	For keyboard access to the Help menu and then to select the Help On Help menu item, hold down				
_	the Key and press the				
	key. RELEASE				
	BOTH KEYS, then press the key.				

Moving a Window or Dialog Box

You can position image windows anywhere in the Viewer's application window. Dialog boxes may be positioned anyplace on the main display. For example, you can move and size two document windows so they appear side by side as you work.

Note: You cannot move a window that has been enlarged to its maximum size.

•	To move an application window, a Child window or dialog box:				
8	Point t	o the title bar of the window or dialog box and drag it to the new position.			
an	1.	From the application Control menu, choose Move			
	2.	mouse pointer changes to To position the outline of the window, use the arrow keys.			
	Note: To return the window to its former location, press				
	3.	When the window appears where you want it, press			
•	Tip				
		es you work in a document, you can arrange the Help window and the Viewer's ey appear side by side.			
•	See Also				

Keyboard Access To Menus Program Control Menu How To Use Help

Registering A Program

When the FLY'N THINGS™ Installer program opens, write down the User name you entered, and the program's Serial Number. If this is a new, or update installation, install the unregistered version first. If you are installing an upgrade, make sure that the name and serial number *exactly* match your original program. If they do not, change them to match: see Typing and editing in dialog boxes.

How To Register Your Program

- To Register your program or E Book
 - 1. Select the **Register** menu and then select the **Register Program** ... menu item. This automatically takes you to the **Registration** & Order Form for the program you are installing.
 - 2. Print out the Order Blank. Fill in your Name as it appears in the About ... dialog box User Name text box and the Serial Number as it appears in the Serial Number text box. PLEASE PRINT!
 - 3. Indicate the type of registration you want; E-Mail or disk sets by mail. Enclose the Registration Fee in the amount and type of payment shown, and mail to the address on the form.
 - 4. If you registered via E-Mail, follow the procedure to upgrade when you receive the Password. If you ordered the registered disk set upgrade, do an initial installation and follow with the install upgrade steps above.
- See Also

Basic Help Instructions
Typing and Editing in dialog boxes
Copyright And Fair Use
Warranty
Registration and Ordering Information
Order Blank

Initial Program Registration

- To Initially Register your program or E Book
 - Select the Register menu and then select the Register Program ... menu item. This automatically takes you to the Registration & Order Form for the program you are installing.
 - 2. Print out the Order Blank. Fill in your Name as it appears in the Installer's User Name text box and the Serial Number as it appears in the Installer's Serial Number text box. PLEASE PRINT!
 - 3. Indicate the type of registration you want; E-Mail or disk sets by mail. Enclose the Registration Fee in the amount and type of payment shown, and mail to the address on the form.
 - 4. If you registered via E-Mail, follow the procedure to install and when you receive the Password. If you ordered the registered disk set upgrade, do an initial installation and follow with the install upgrade steps above.
 - 5. When you received your program password, run the program and open the Registration Dialog Box (About...). Type in your password as shown below and then press the ENTER key. The program "Beeps"on entry and the program registration changes to REGISTERED.

UNREGISTERED Changes To: This Program Is Registered To:



Password In the Password/Status Text Box

See Also

Basic Help Instructions
Typing and Editing in dialog boxes
The About Dialog Box
Copyright And Fair Use
Warranty
Registration and Ordering Information
Order Blank

Reinstalling Or Installing An Upgrade

- To Reinstall Or Install An Upgrade
 - 1. Select the install button.
 - 2. Type in your Password in the dialog box when requested.
 - 3. If you entered the Password correctly the program acknowledges acceptance and installs the complete program. If your Password is rejected, double check that your User Name and Serial Number are correct, correct if needed, and repeat Step 1.
 - 4. If you still cannot install the program, please see the README file that came with the program; Passwords are unique to each program and ONLY work with that program. If you still have difficulty, contact us via E-Mail for help.

UNREGISTERED Changes To: This Program Is Registered To:



Type In Your Name, Serial Number And The Password. MAKE SURE You Press The ENTER Key After Each Typed Entry

See Also

Basic Help Instructions
Typing and Editing in dialog boxes
The About Dialog Box
Copyright And Fair Use
Warranty

Typing and editing in dialog boxes

Some dialog boxes contain text boxes in which you can type a response -- for example, a file name or file extension that you want to find in the current directory, or entry of your name or password.

The Program's Serial Number Text Box



- To replace text in a text box:
 - 1. Select the text you want to replace then do one of the following:



Drag the mouse pointer over the text you want to replace.

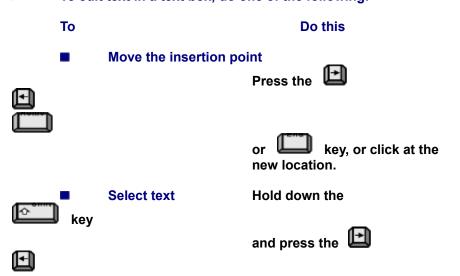


Or, press the

key until you highlight the text box you want.

- 2. Type your response.

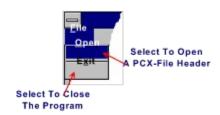
 The selected text is deleted as soon as you start typing.
- ► To edit text in a text box, do one of the following:



المسعال	key, or		, or	
			hold down the left mouse button and drag.	
	or	Cancel a selection	Press the	
	ey, or		click anywhere in the text box.	
	•	Replace a selection	Start typing.	
	•	Delete text	Delete one character at a time by pressing the BACKSPACE	
	J key.		Or, delete more than one character at a time by selecting the text and pressing the key.	
When the text entry or change is complete:				
	.	Change	Press the	
	J key. T∣	he	program "Beeps" and your name or serial number are automatically updated and displayed.	
OK.	butte	Password or Name on.	Select the	
•	To clos	se a dialog box:		
Gameer	butte	Close Select on.	the	
•	See Al	so		
Basic Help Instructions				

Keyboard Access To Menus
The Conversion Display
The About Dialog Box

File Menu



See Also

Open Command
Exit Command
Keyboard Access To Menus

Open Command (File menu)

Use this command to open and display the Header Information for a PCX file.

See Also

<u>File Menu</u> <u>Keyboard Access To Menus</u>

Exit Command (File menu)

Use this command to end your viewing session. You can also use the Close command on the application's Control menu.

Shortcuts



Double-click the application's **Control-menu button**.



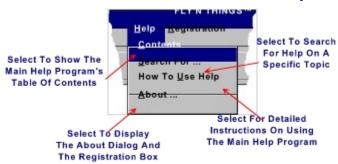




See Also

<u>File Menu</u> <u>Keyboard Access To Menus</u>

Help Menu



See Also

Contents Command
Searching For A Help Topic
How To Use Help
About Command
Keyboard Access To Menus
The Conversion Display

Contents Command (Help menu)

Use this command to display the opening screen of Help (<u>Table Of Contents</u>). From the opening screen, you can jump to step-by-step instructions, answers to common questions and various types of reference information.

Once you open Help, you can click the first button on the left in the Help window whenever you want to return to the opening screen.

How To Use Help (Help Menu)

Choose to open the FLY'N THINGS™ Program Help-On-Help instructions.

About Command (Help Menu)

Use this command to display the version number, and Copyright, of your copy of the FLY'N THINGS™Program.

See Also

The About Dialog Box

The About Dialog Box



See Also

How To Register Your Program
Initial Program Registration
Reinstalling Or Installing An Upgrade
Register Program

Index Menu



The Index Menu is a special "hidden" menu. This menu links the Conversion progeram to external-Index Programs, like the FLY'N THINGS™ WWII Hypertext Index of aircraft 3-view drawings. It is automatic in operation, and ONLY appears when a FLY'N THINGS™ index is present.

Use the Index Menu like all other menus, either with the keyboard or mouse. Choosing the Drawing Index ... name starts the external index program.

See Also

<u>Drawing Index</u>
1/72nd-Scale WWII Scanned 3-View Aircraft Drawings
Registration and Ordering Information
Order Blank

Restore Command (Control menu)

Use this command to return the active window to its size and position before you chose the Maximize or Minimize command. Clicking in the upper-right corner of a maximized window is the same as choosing the Restore command.

	Shortcuts	
8	Double-click the title bar.	
	.	
Ш	restores an image window	
(T-2)	 &	
Ш	restores the Viewer main window	
•	See Also	
Minin	icing The Viewer Window To An Icon	
The Conversion Display		

Move Command (Control menu)



Use this command to display a four-headed arrow window or dialog box with the arrow keys.

so you can move the active

Note: This command is unavailable if you maximize the window.

Shortcut



See Also

Moving A Window Or Dialog Box

Size Command (Control menu)



Use this command to display a four-headed arrow so you can size the active window with the arrow keys.

Note: This command is unavailable if you maximize the window.

Maximize Command (Control Menu)

Use this command to enlarge the active window to fill the available space.

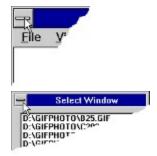
- An image window expands to fill the program window.
- The program window expands to fill the entire screen.
- Shortcut



Double-click the title bar.

Close Command (Control Menu)

Use this command to close the program, active window or dialog box.



Program Window

Dialog Box

Shortcuts

Double click on the Control-Menu Button.

& closes the program window or a dialog box.

See Also

Exit Command (File Menu)
Program Control Buttons

Minimize button

Located at the right end of the title bar in an application window.

Clicking the Minimize button is the same as choosing Minimize from the application Control menu: The application window shrinks to an icon.

See Also

Reducing A Window To An Icon The Conversion Display

Reducing The Program Window To An Icon

When you are finished working with the Installer, you can either quit the Installer or leave it temporarily by reducing, or "minimizing," it to an icon. When you want to resume working with the Installer, just double-click on the icon with your mouse.

When you reduce a application-program window to an icon, the icon goes behind any other application you have enlarged to full size.

From the application Control menu, choose Minimize & then

Shortcut

Click the Installer's Minimize button

To restore the Installer to a window

- 1. Press & & to display the Task List.
 - 2. Do one of the following:
 - Select Installer, and then choose the Switch To button.
 - Double-click the Installer program name

Shortcut



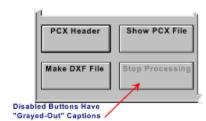
Double-click the Installer icon



See Also

The Conversion Display

Program Control Buttons



These buttons control the processing of a selected PCX file. These individual buttons allow you to open a PCX file and display its header information, show the file on the display, convert it to a DXF file and stop processing an image.

- How these buttons function is controlled by the program options
- See Also

PCX Header Button
Show PCX File Button
Make DXF File Button
Stop Processing Button
Grayed Out Buttons
The Conversion Display
Options Menu
Check-Box Bar

PCX Header (Buttons)

Choose this button to open a PCX file and display the header information. The display shows the size and resolution of the PCX image file selected.



See Also

Show PCX File Button
Make DXF File Button
Stop Processing Button
Grayed Out Buttons
The Conversion Display
Options Menu
Check-Box Bar

Show PCX File (Buttons)

Choose this button to display a PCX file without converting it to a DXF file.



- How this button functions is controlled by the program options
- See Also

PCX Header Button
Make DXF File Button
Stop Processing Button
Grayed Out Buttons
The Conversion Display
Options Menu
Check-Box Bar

Make DXF File (Buttons)

Choose this button to generate a DXF file from the selected PCX file.



- How this button functions is controlled by the program options
- See Also

PCX Header Button
Show PCX File Button
Stop Processing Button
Grayed Out Buttons
The Conversion Display
Options Menu
Check-Box Bar

Stop Processing (Buttons)

Choose this button to stop all processing of an input file, like display or DXF conversion. If a DXF conversion is in process, a partial DXF file is made the DXF file is correctly terminated and can be used.



See Also

PCX Header Button
Show PCX File Button
Make DXF File Button
Grayed Out Buttons
The Conversion Display
Options Menu
Check-Box Bar

The Registration Menu



Selecting the Register Program ... menu item takes you directly to the registration and order section of the program you have installed. For FLY'N THINGS™ Electronic Books, you have to at least install the unregistered version to access the specific program information. Most application programs, are accessible after the initial disk "Setup" program runs.

See Also

The Conversion Display
Order Blank
Registration & Order Information

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Registration & Order Information

Registration And Payment

Registration supplies the right to the continued use of the product after the 30 day free trial, and the elimination of the reminder screens. It does not rescind the legal disclaimer of liability under which this product is used. Advantages Of Registering

Upgrade Policy

We appreciate suggestions for product improvement made by our customers. Ideas for improvement come from users who have said "Wouldn't It be nice if ...". All ideas will be considered, but please note that many times suggestions can result in a program that needs special equipment. This limits our programs to a few users. Our goal is to provide low-cost program access to users with a wide variety of hardware.

Our upgrade policy is that registration for a previous release will be honored automatically for an upgrade, like minor changes and improvements. The programs handle this automatically in most cases. The first time a new unregistered release is installed on a machine where it replaces a registered version, it brings up the registration dialog box. Just enter your Registered User Name and Serial Number (In many cases they will be preentered in the dialog box, as these data are stored on the computer by the previous version). This makes Upgrades FREE for the downloading from any source carrying the unregistered version. However, please remember that NEW programs, or major program revisions, may require new registration and payment.

E-Mail And Telephone Registration

In addition to registration directly to us, some programs can be registered by telephone or an on-line service. Toll-free telephone registration is a credit-card service offered by some Shareware Distributors. On-line Services, like Compuserve, also provide registration by adding the registration fee to your monthly bill. Please see the README file that comes with the program for specific information.

NEXT

Warranty

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PRINT ORDER FORM

Order Blank FLY'N THINGS™ PCX To DXF Conversion Program



CASH INVOICE: (Please Print Clearly)	
Name:	
Address:	
E-Mail Registration For A Single Personal Computer	US\$20.00
Mailed Disks: Registered Version For A single Personal Computer Windows Hyper-Text Index WWII Aircraft 3-Views (about 5 Acrobat PDF Index WWII Aircraft 3-Views Printed Listing Index WWII Aircaft 3-Views	JS\$28.50 PostPaid 00) US\$5.00 Postpaid US\$5.00 Postpaid US\$1.00 Postpaid
(All Disks Are 3-1/2 HD In IBM Format)	
Please contact us for quantity license fee for use on more	than one computer.
Payment Enclosed: \$(Sorry, No Checks: Cash Or Money Order Only. Payments	In US Funds)
For Internet E-Mail electronic registration, please give your Email address	
Name for identification on copyright screen (if different)	
Program Serial Number	
MAIL TO: Phil Koopman 2805 Hunt Club Lane Orlando, FL 32826-3909 (407) 381-9464	
Thank You : Your order will be sent via E-Mail or First Class Mail As So	oon As Payment Is Received.
PKAeronaut@aol.com	

Shareware

About Shareware

Shareware is copyrighted software that is distributed by authors through bulletin boards, on-line services and disk vendors.

Shareware allows you to try the software for a reasonable, but limited, period. If you decide not to continue using it, you throw it away and forget about it. You only pay for it if you continue to use it. Shareware is a distribution method, not a type of software. You benefit because you get to use the software to determine whether it meets your needs, before you pay for it.

The shareware system and the continued availability of quality shareware products depend on your willingness to register and pay for the shareware you use. It's the registration fees you pay which allow authors to support and continue to develop new products. Please show your support for shareware by registering those programs you actually use. Payment of the registration fee entitles you to use the program on a single computer; it does not transfer ANY title or ownership.

Shareware Information

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Only the copyright owner, Phil Koopman, Sr. and/or FLY'N THINGS™, can give permission for copies to be made. Permission is granted for disk copies to be made freely for 30-day evaluation purposes, provided that they are marked as Shareware and do not include the License Data.

After an evaluation period of 30 days, you are required to either pay for the continued use of the product, or to cease its use.

Registration involves payment, and the receipt of a registration password. You then reinstall the Shareware program, using your name and the registration password, to unlock all features of this program. The registration number and the user's name is displayed in the copyright box when the Electronic Book or program starts.

Advantages Of Registering

As an example, when you register the WWII Dime-Weight Flying Paper-Card Model PDF Program/E-Book, you can print out the detailed, illustrated instruction sheets and all six paper models in either color or black and white. Other programs, like the PCX To DXF File Conversion, removes the image-size limits and let you process large PCX images into DXF files for CAD input.

And, program upgrades are free for the downloading. Minor program enhancements can be "unlocked" with your registered program's serial number and password. Please remember that major program changes, like new features, WILL require a new registration.

The shareware system and the continued availability of quality shareware products depend on your willingness to register and pay for the shareware you use. It's the registration fees you pay which allow authors to support and continue to develop new products. Please show your support for shareware by registering those programs you actually use.

Why Does The Help File's Text Look Jagged?

These Windows Electronic-Books and Help Files use Microsoft's Arial True Type fonts. The Arial Font comes with Windows and is automatically installed. If the text has a bad case of the "Jaggies", it's because the Arial True Type Font is either not installed, or the True Type Fonts have been disabled in the Windows Control Panel. Windows substitutes a system font for the missing True Type letters.

To Change The True Type Font Settings:



Open the Windows Control Panel and double click on the Fonts Icon: Fonts Then, press key

for help. Read the section on True Type Options and Installing Fonts.

Warranty

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Drag

Hold down the left mouse button as you move the mouse, "Dragging" along an object, like the edge of a window frame, you selected.

Underlined Word Or A Graphic

Help topics can include graphics and text that link to other Help topics or to more information about the current topic. These are called jumps. Jumps are usually identified by a color and an underline (unless the jump is a graphic, then it's usually marked with:

Click On ...). When you point to a jump, the pointer changes to a hand shape outlined text or a graphic, the Help program "jumps" to another topic or gives you more information in a pop-up window like this.

To close this pop-up window:

Click anywhere on the screen, or press any key.





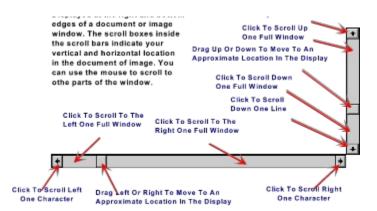


The LEFT, UP, DOWN, and RIGHT Arrow Keys;
Used to move the insertion point or to select from a menu or a list of options.

Help Basics

	Windows Help offers a quick way to find information, like how to perform a particular task. Within a Help topic, there may be one or more jumps, which you can click (or select and press) to display a new Help topic. You can move, resize, maximize, or minimize the Help window, just like any other window. When you are ready to return to the Installer's Table Of Contents, choose the button.
	For detailed instructions on how to use Help: Press the key. To return to this Help File, click on How To Use Help's button or press the key.
•	To close this pop-up window: Click anywhere on the screen, or press any key.

Scroll Bars



Searching for a Help Topic

You can find information quickly by using the Search button opens the Search dialog box, where you select a word that you want to search for. All Help topics associated with that word are listed, and you can select one to view. For example, to find out how to save a file, you could select "save" from the list. Topics that have the word "save" associated with them would then be listed in the Search dialog box.
To search for Help information:
1. In the Help button bar, choose the button.
Or, type .
Select the word or phrase you want to search for. When you start typing, the words that most closely match the text you type are displayed.
3. Choose the button.
4. Select the topic you want to view. If necessary, use the scroll bar to see more topics.
5. Choose the button.

See Also

Basic Help Instructions

DXF Files

Data Exchange Files (DXF) Files are the *de facto* standard for the exchange of line-art drawing data between CAD, Illustration and Page Composition programs. The basic DXF standard was established by AutoCAD for use with its CAD programs.

The DXF file is in Ascii-Text format. It can be viewed and edited by any text editor that can handle large files and save these files in a text format, like Microsoft's Word For Windows™.

DXF data input and ouput are documented with your specific program. Data output/input capabilities does vary from program to program. Data for a curve, for example, may be in the form of a series of line segments or a polyline rather than in the B-Spline or *Bézier* form it was created in.

PCX Files

The Personal Computer eXchange (PCX) File was developed by Z-Soft as a means to transfer bit-map graphics files between programs. It, and variations like those used by some of the paint-type programs, use a file-compression method normally referred to as Run Length Limited (RLL). Repeated dot images are stored as a "count" of the number of horizontal dots in a scan line, rather than as individual dots. This gives a significant file-size compression. PCX file compression is "lossless", so no image details are lost the expanded file is an exact match of the original image.

Scanned Images

Scanned images, called raster images, are just a series of dots representing the original image. The scanning process sweeps across the original image in a series of horizontal rows of dots, much like the lines one sees on a monochrome TV set.

Normally, the vertical distance between these lines of horizontal dots is the same as the space between the dots. This is called the scan resolution, and is normally expressed as dots per inch (dpi).

One might think of the scanning process by imagining putting a piece of window screen over the original image. Each hole in the screen is a scan dot. The finer the screen's mesh, the more dots per inch and the more precise the image.