

Chapter
II-1

Getting Help

Overview	3
Online Manual.....	3
WaveMetrics Support Web Page.....	3
Online Help.....	3
Igor Tips (Macintosh).....	4
User-Defined Igor Tips	4
Status Line Help, Tool Tips and Context-Sensitive Help (Windows).....	4
Status Line Help.....	5
Tool Tips.....	5
Context-Sensitive Help	5
Menus	5
Icons.....	5
Dialogs.....	5
Igor Shortcuts Help.....	5
Help from a Procedure Window or the Command Line	5
The Help Button in Dialogs.....	6
Igor Help Browser	6
Help Topics Tab	6
Shortcuts Tab	6
Command Help Tab	6
Search Igor Files Tab	7
Search Expression.....	8
Search Folders	8
Types of Files.....	9
Search Results.....	9
Search Strategies	9
Search Speed.....	9
Manual Tab.....	9
Support Tab	10
Igor Help Files	10
Igor Help Windows	10
Hiding and Killing a Help Window.....	11
Executing Commands from a Help Window	11
Compiling Help Files.....	11
Creating Your Own Help File (For Advanced Users)	11
Syntax of a Help File	12
Creating Links	13
Checking Links.....	13
Technical Support	14
Email Support.....	14
FTP Sites	14
World Wide Web	14
WaveMetrics Support Web Page.....	15
Igor Mailing List.....	15
IgorExchange.....	15

Chapter II-1 — Getting Help

Telephone Support	15
FAX Support	15
Help Shortcuts	16

Overview

There are a number of sources of information on using Igor:

- The Igor Pro online manual
- The online help system
- WaveMetrics support web page
- WaveMetrics Technical Support
- The Igor mailing list
- The IgorExchange user-to-user support web page

Online Manual

The Igor Pro installer installs the entire Igor Pro manual as an Adobe PDF (portable document format) file. You need Adobe Reader or a comparable PDF viewer, such as Apple's Preview, to view the online manual.

From within Igor Pro you can launch your PDF viewer program and view the online manual by choosing Help→Manual. From the desktop you can view the manual by double-clicking the IgorMan.pdf file in "Igor Pro Folder/Manual".

The PDF manual includes a fast-search index for Acrobat Reader version 6 or later. To activate the fast search index, open the IgorMan.pdf file in Acrobat Reader 6 or later, choose Edit→Search, and select the IgorMan.pdx file.

The PDF manual is available in hard-copy form from <http://www.lulu.com/wavemetrics>.

WaveMetrics Support Web Page

For up-to-date information on Igor Pro, visit the WaveMetrics support Web page at:

<http://www.wavemetrics.com/support/>

From this web page you can search our support database, search archives of the Igor Mailing List and find links to updaters.

You can access this page by choosing Help→Support Web Page.

Online Help

Igor provides several forms of online help:

- The Igor help system
- Macintosh Igor Tips
- Windows status line help, context-sensitive help, and tool tips

The Igor help system is the same on Macintosh and Windows. Its major elements are Igor help files and the Igor Help Browser.

This table summarizes the ways to access online help in Igor.

Help Access Method	What It Is Good For
The Igor Help Browser window (Help menu)	Finding a specific topic or subtopic in the Igor help files, learning about handy shortcuts, getting help for operations, functions and programming keywords, and searching Igor files for specific phrases.
The Help button that appears in many dialogs	Getting a general idea of how to use the dialog.

Chapter II-1 — Getting Help

Templates in procedure windows [*]	Getting the syntax of built-in and external functions and operations and flow-control structures.
Igor Tips (<i>Macintosh only</i>)	Clarifying the meaning of icons, menu items and dialog items. Identifying traces in graphs and columns in tables.
Status line help (<i>Windows only</i>)	Displaying a brief description of menu items and tools.
Tool tips (<i>Windows only</i>)	Displaying a short description of a button or tool.
Context-sensitive help (<i>Windows only</i>)	Getting more detail than is available from the status line help.

^{*} Chapter III-13, **Procedure Windows** describes the use of templates in procedure windows. This chapter covers the other help access methods listed in the table.

The main sources of information for help are the files in the Igor Help Files folder. Igor automatically opens files in this folder when it starts up.

Igor also automatically opens help files in "Igor Pro User Files/Igor Help Files" (see **Igor Pro User Files** on page II-45 for details). If you want an additional help file to be automatically opened, put it or an alias/shortcut for it in that folder.

Additional WaveMetrics help files can be found in "Igor Pro Folder/More Help Files". You can open these help files by double-clicking them or using the Open File submenu in the File menu. You can search these files (and all help files in the Igor Pro Folder and in the Igor Pro User Files folder) using the Search Igor Files tab of the Igor Help Browser.

Many Igor extensions come with help files describing their use. These help files are stored in the same folder as the extension itself — in either "Igor Pro Folder/Igor Extensions" or "Igor Pro Folder/More Extensions".

Igor's help system is extensible. You can write your own help files and add balloons help or context-sensitive help for your own menu items and controls. This is something that you might want to do if you write Igor procedures to be used by others.

Igor Tips (*Macintosh*)

We've tried to provide concise yet useful tips for nearly every menu item, dialog item and icon in Igor. There are two ways to show the Igor Tips window:

- Choose Help→Show Igor Tips.
- Press Option-Help.

If your keyboard lacks a Help key you must use the Help menu.

Once you've turned Igor Tips on, position the cursor over a menu item, dialog item or icon. In most cases, Igor will present a window that will explain what that item is good for.

Note: Pressing Option-Help toggles Igor Tips off or on.

You can also use Igor Tips to get information about traces in graphs and columns in tables. However, these Igor Tips appear *only* while you press Command-Option-Control and click a trace or column. Showing Igor Tips with the Help menu will not do it.

User-Defined Igor Tips

You can define tips for menu items and controls created by your Igor procedures. See **Help for User Menus** on page IV-108 and **Help Text for User-Defined Controls** on page III-378.

Status Line Help, Tool Tips and Context-Sensitive Help (*Windows*)

On Windows Igor provides three ways to get help for icons, menu items and dialog items. These are status line help, tool tips, and context-sensitive help.

Status Line Help

The status line area at the bottom of the main Igor Pro window shows brief descriptions of icons and menu items. This help is shown automatically; you don't have to do anything to make it appear.

Tool Tips

If you point at an icon in an Igor Pro window, a tool tip will appear after a short delay. It contains just a two or three word description of the button.

You can adjust the delay before the tool tip appears, and the duration of display in the Help page of the Miscellaneous Settings dialog, which you can choose from the Misc menu.

Context-Sensitive Help

Context-sensitive help (sometimes referred to as F1 help) is displayed in a pop-up window and provides more detail than the status line help. It is accessed in several different ways depending on the type of item you need help for.

Menus

For help on items in a menu, pull down the menu and highlight the item of interest. Then press the F1 key to display the context-sensitive help window.

Icons

For help on icons in windows such as graphs and tables, hold down Shift and press F1. This changes the mouse cursor to a question-mark; click on a button or icon to display the context-sensitive help window.

Dialogs

Help for individual items in Igor's dialogs can be summoned by clicking the question-mark button at the right end of the dialog's title bar, then clicking on the item for which you want help.

Igor Shortcuts Help

Igor supports a number of very handy shortcuts. The Shortcuts tab of the Igor Help Browser lists these shortcuts, organized in logical categories.

Help from a Procedure Window or the Command Line

There is a quick and easy way to get help for a function, operation or flow-control keyword from the command line or from a procedure, notebook or help window. Type or select the name or keyword. Control-click (*Macintosh*) or right-click (*Windows*) and choose help from the resulting menu.

Here are some keyboard shortcuts for summoning help.

Keyboard Shortcut		What It Does
<i>Macintosh</i>	<i>Windows</i>	
Press Help	Press F1	Displays Help Browser window
Press Shift-Help	Press Ctrl+F1	Inserts template for selected function, operation or flow-control keyword
Press Shift-Option-Help	Press Ctrl+Alt+F1	Shows help for selected function, operation or flow-control keyword

The Help Button in Dialogs

The Help button in Igor dialog's provides an overview of the dialog and tips for using it. Use Igor Tips (*Macintosh*) or context-sensitive help (*Windows*) for information on individual dialog items.

Igor Help Browser

The Igor Help Browser is designed to provide quick access to the most frequently-used Igor reference material and also to provide a starting point in searching for other kinds of information. You can display the Igor Help Browser by

- Choosing Igor Help Browser from the Help menu.
- Pressing the Help key (*Macintosh*) or F1 key (*Windows*).
- Clicking the Igor Help Browser icon in the command window.

The Igor Help Browser consists of six tabs.

Help Topics Tab

The Help Topics tab provides a table of contents for the open Igor help files. When you first launch Igor, Igor opens the help files in "Igor Pro Folder/Igor Help Files" and "Igor Pro User Files/Igor Help Files".

The Topics list initially presents all topics in all open help files. You can choose a specific help file from the Show Topics From pop-up menu to narrow the scope of topics. Once you locate and select the topic of interest in the Topics list, the Subtopics list displays subtopics within that topic, if any exist.

After selecting a topic and optionally a subtopic, click the Show Selected Topic button to see the help.

If you know that the information that you are looking for is in a help file that is not normally open, for example, in a help file associated with an Igor extension, click the Open Another Help File button. Most additional help files can be found in "Igor Pro Folder/More Help Files", "Igor Pro Folder/Igor Extensions" or "Igor Pro Folder/More Extensions".

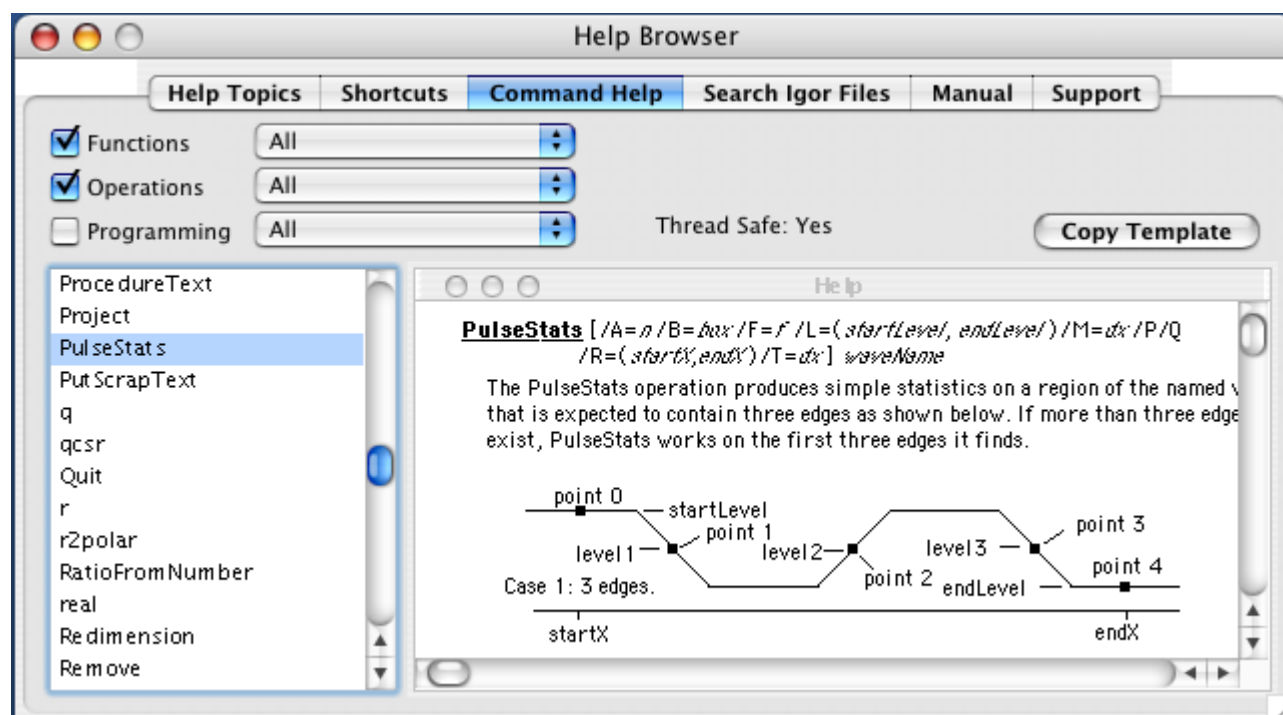
If you don't know what help file or what topic may contain the information of interest, use the Search Igor Files tab instead of the Help Topics tab.

Shortcuts Tab

The Shortcuts tab presents a list of shortcuts, organized in functional groups.

Command Help Tab

The Command Help tab provides quick access to reference information on Igor functions, operations and programming keywords. When you choose a function, operation or keyword in the list, Igor displays the associated help.



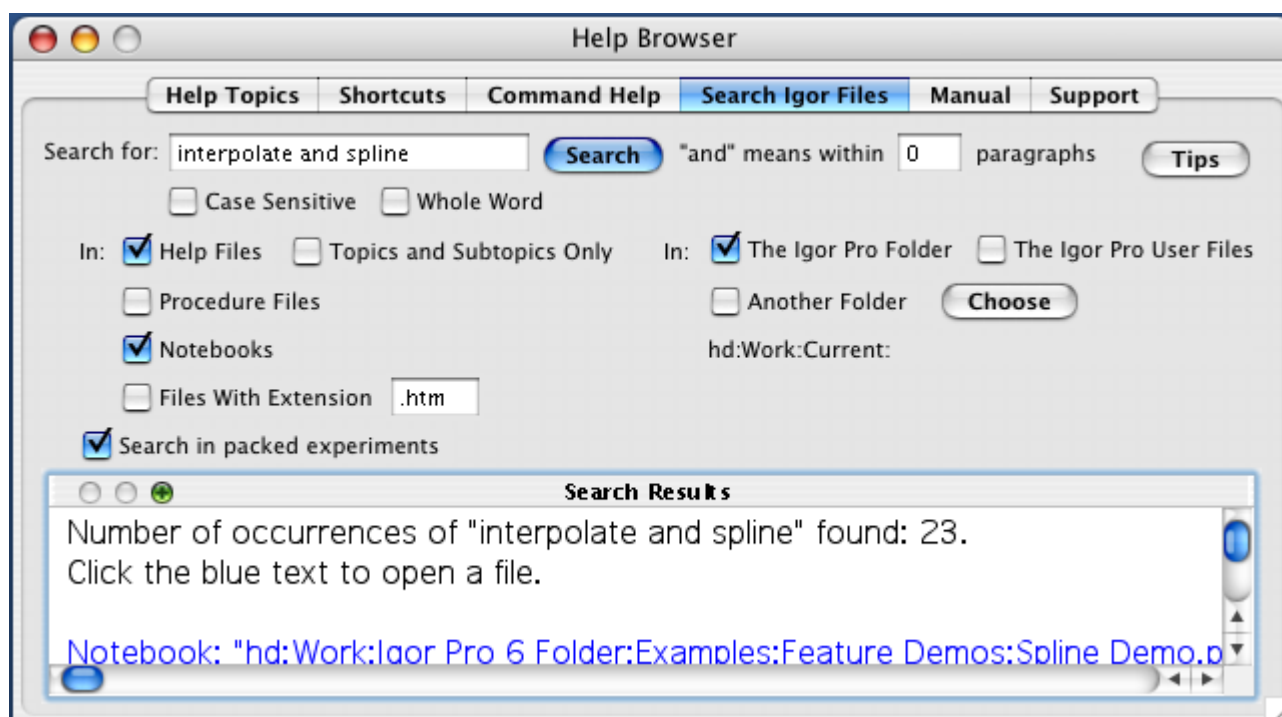
A checkbox for each of the three main categories adds or removes the associated items from the list. The pop-up menu next to each checkbox further narrows the scope of the list.

The Copy Template button copies a template to the Clipboard which you can then paste into the command line or into a procedure window. All functions and operations have templates, but only some keywords do.

Here is a tip to help you understand the distinction between an operation and a function: a function returns a direct result (e.g., `sin`) while an operation does not (e.g., `Display`).

Search Igor Files Tab

The Search Igor Files tab provides a way for you to search Igor help files, procedure files, and notebooks for information of interest.



Search Expression

The expression can consist of one or more (up to 8) terms. Terms are separated by the word “and”. Here are some examples:

interpolation	<i>One term</i>
spline interpolation	<i>One term</i>
spline and interpolation	<i>Two terms</i>
spline and interpolation and smoothing	<i>Three terms</i>

The second example finds the exact phrase “spline interpolation” while the third example finds sections that contain the words “spline” and “interpolation”, not necessarily one right after the other.

The only keyword supported in the search expression is “and”. “Or” and “near” are not supported. Also, quotation marks in the search expression don’t mean anything special and should not be used.

If your search expression includes more than one term, a text box appears in which you can enter a number that defines what “and” means. For example, if you enter 10, this means that the secondary terms must appear with 10 paragraphs of the primary term to constitute a hit. A value of 0 means that the terms must appear in the same paragraph. In a plain text file, such as a procedure file, a paragraph is a single line of text. Blank lines count as one paragraph.

Search Folders

You can search the Igor Pro Folder and all subfolders by selecting the associated checkbox. This is intended for situations in which you are looking for help on Igor features or examples of Igor programming.

You can search another folder and all subfolders by selecting the Another Folder checkbox and then by clicking the Choose button to specify the folder. This is useful when searching your own files or if you want to search a specific folder inside the Igor Pro Folder.

Types of Files

You can choose what type of files Igor should search: help files, procedure files, notebooks, or files with a specific extension. You can also look for notebooks and procedure files inside packed Igor experiment files.

When Igor searches notebooks, it searches both formatted notebooks (including Igor technical notes) and plain text notebooks. On Macintosh, any file whose file type is 'TEXT' is considered to be a plain text notebook. On Windows, any file whose extension is ".txt" is considered to be a plain text notebook.

On Macintosh, Igor procedure files have the file type 'TEXT'. Other kinds of plain text files, such as data files and readme files, also have the file type 'TEXT' so Igor can not distinguish a procedure file from some other kind of plain text file. When you search procedure files, it searches all plain text files in the specified folder and subfolders.

On Windows, procedure files use the extension ".ipf" while various kinds of plain text files use other extensions, such as ".dat" and ".txt". When you search procedure files, it searches only files with the ".ipf" extension.

On both platforms, you can search files with a specific extension (".txt", ".dat") using the Files With Extension checkbox.

Search Results

Igor displays hits (occurrences of the search expression) in the Search Results windoid. At the top of the windoid, Igor displays the total number of hits.

Each hit is displayed as a file reference, in blue text, and the contents of the paragraph containing the hit, in black text. To open the file containing the hit, click the blue text.

To reduce clutter, if a single paragraph contains the search expression multiple times, this is considered to be one hit and is displayed as one file reference.

When you click a hit that refers to a stand-alone help file, procedure file or notebook, Igor opens the file and displays the paragraph containing the hit, highlighting the first term in the search expression.

If you click a hit that refers to a notebook or procedure file in a packed experiment, Igor can not open the file directly. It presents a dialog with two options:

- Open the experiment containing the file that contains the hit.
- Create and open a copy of the file that contains the hit.

Search Strategies

Usually when you are searching for information about Igor, you should include help files and notebooks and you should elect to search inside packed experiment files. This is because the examples provided in the Examples folder of the Igor Pro folder are mostly in the form of packed experiment files that include an explanatory notebook. Igor technical notes are usually in the form of stand-alone (not packed) notebook files.

If you are searching for user-defined functions in the WaveMetrics Procedures folder, you should elect to search procedure files. This gives you a handy way to find a function that does something that you need or to find an example of Igor programming.

Search Speed

Igor's searching does not use indexing. In other words, Igor opens and reads each file of the specified type or types in the specified folder or folders, and searches for the search expression. It does not store anything from one search to another. On slow computers, this may make searches annoyingly slow. In this case, you can speed things up by reducing the number of types of files to be searched or by more narrowly targeting the folder to be searched.

The online Igor Pro manual does provide indexed searches. This is described in the next section.

Manual Tab

The Manual tab provides a quick way for you to open the Igor Pro online manual.

Chapter II-1 — Getting Help

The Open Online Manual button launches your PDF viewer program and opens the IgorMan.pdf file. Igor expects to find IgorMan.pdf in the "Igor Pro Folder:Manual" folder, where the Igor Pro installer installs it.

The Open Online Manual button displays an error message if it can not find the IgorMan.pdf file in the "Igor Pro Folder:Manual" folder or if there is no program on your hard disk configured to open PDF files. In this case, install Adobe Acrobat Reader from the Igor Pro CD or by downloading from <<http://www.adobe.com/>>.

Support Tab

The Support tab lists additional sources of help with Igor Pro.

Igor Help Files

The Igor installer places help files primarily in "Igor Pro Folder/Igor Help Files" and in "Igor Pro Folder/More Help Files". Help files for Igor extensions are installed in "Igor Pro Folder/Igor Extensions" and in "Igor Pro Folder/More Extensions".

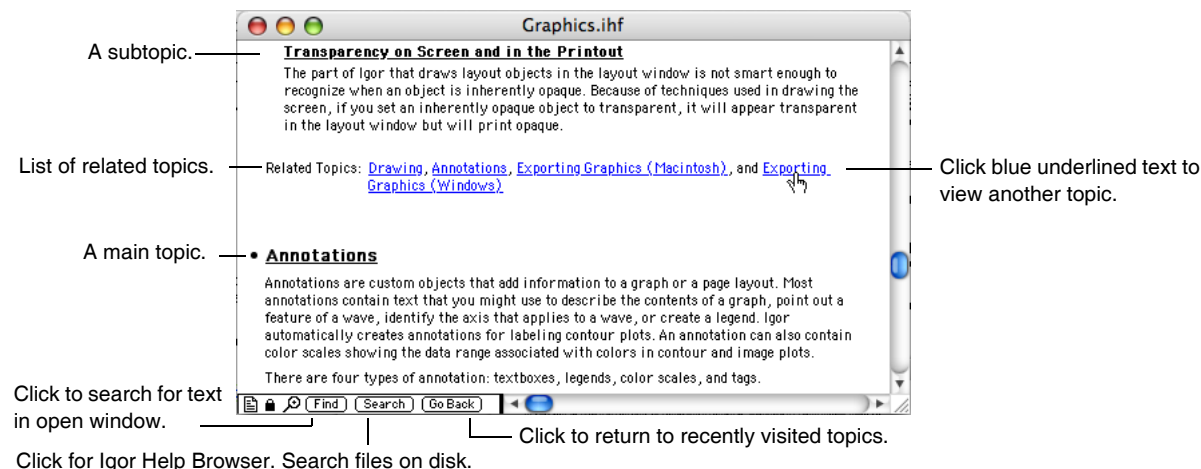
When Igor is launched it automatically opens any Igor help files in "Igor Pro Folder/Igor Help Files" and in "Igor Pro User Files/Igor Help Files". If you want Igor to automatically open another help file, create an alias (*Macintosh*) or shortcut (*Windows*) for that help file and drag it into "Igor Pro User Files/Igor Help Files" (see **Special Folders** on page II-44 for details).

Help files that you want to use occasionally can be stored anywhere on your hard disk. You can open them manually by double-clicking in the desktop, choosing File→Open File, or clicking the Open Another Help File button in the Help Topics tab of the Igor Help Browser.

Igor Help Windows

When Igor starts up, it automatically creates help windows by opening the Igor help files stored in "Igor Pro Folder/Igor Help Files" and in "Igor Pro User Files/Igor Help Files". You can display a help window by choosing it from the Help Windows submenu in the Windows menu.

Each Igor help file consists of a number of help topics, each of which may contain subtopics, and a list of related topics.



All of the topics are in the help file, one after another, like a big word-processing document. To see a list of topics, use the Igor Help Browser Help Topics tab. Blue underlined phrases are links that take you other parts of the help file or to other help files.

Click the Find button to search for words or phrases in the active help window. Click the Search button to search for words or phrases in multiple help files on disk.

Clicking the Go Back button or pressing Command-B (*Macintosh*) or Ctrl+B (*Windows*) takes you back to previous places in the help that you have visited. If you also press the Shift key, Igor will hide the active help window if you are going back to a different help window.

Hiding and Killing a Help Window

When you click the close button in a help window, Igor hides it. It also hides the help window if you choose Hide from the Windows menu or press Command-W (*Macintosh*) or Ctrl+W (*Windows*).

If you are finished using an Igor help window, you can kill it. This closes the file, removes its topics from the Help Browser and kills the window. It does not delete the file. To kill an Igor help file, you must press Option (*Macintosh*) or Alt (*Windows*) while clicking the close FilterFIR or while choosing Close from the Windows menu.

Executing Commands from a Help Window

Help windows often show example Igor commands. To execute a command or a section of commands from a help window, select the command text and press Control-Enter or Control-Return. This sends the selected text to the command line and starts execution.

Compiling Help Files

Each Igor help file contains compiled help information that Igor uses to quickly find topics and subtopics. If you open a help file that has been modified, Igor will ask if you want to “compile” it. Compiling is what creates this information. This will happen only if you intentionally or accidentally modify a help file and then open it.

Windows: Prior to Igor Pro 5, Igor stored the compiled help information in a separate file with a “.igr” extension. Now Igor stores the compiled help information in the help file itself. The “.igr” file is no longer needed.

Creating Your Own Help File (For Advanced Users)

You can create an Igor help file that extends the Igor help system. This is something you might want to do if you write a set of Igor procedures or extensions for use by your colleagues. If your procedures or extensions are generally useful, you might want to make them available to all Igor users. In either case, you can provide documentation in the form of an Igor help file.

Here are the steps for creating an Igor help file.

1. Create a formatted-text notebook.
A good way to do this is to open the Igor Help File Template provided by WaveMetrics in the More Help Files folder. Alternatively, you can start by duplicating another WaveMetrics-supplied help file and then open it as a notebook using File→Open File→Notebook. Either way, you are starting with a notebook that contains the rulers used to format an Igor help file.
2. Choose Save Notebook As from the File menu to create a new file. Use a “.ihf” extension so that Igor will recognize it as a help file.
3. Enter your help text in the new file.
4. Save and kill the notebook.
5. Open the file as a help file using File→Open File→Help File.

When you open the file as a help file, it needs to be compiled. When Igor compiles a help file, it scans through it to find out where the topics start and end and makes a note of subtopics. When the compilation is finished, it saves the help file which now includes the help compiler information.

Once Igor has successfully compiled the help file, it will act like any other Igor help file. That is, when opened it will appear in the Help Windows submenu, its topics will appear in the Help Browser and you can click links to jump around.

Chapter II-1 — Getting Help

Here are the steps for modifying a help file.

1. If the help file is open, kill it by pressing Option (*Macintosh*) or Alt (*Windows*) and clicking the close button.
2. Open it as a notebook, using File→Open File→Notebook.
3. Modify it using normal editing techniques.
4. Choose Save Notebook from the File menu.
5. Click the close button and kill the notebook.
6. Reopen it as a help file using File→Open File→Help File.

Syntax of a Help File

Igor needs to be able to identify topics, subtopics, related-topics declarations and links in Igor help files. To do this it looks for certain rulers, text patterns and text formats described in **Creating Links** on page II-13. You can get most of the required text formats by using the appropriate ruler from the Igor Help File Template file.

Igor considers a paragraph to be a help topic declaration if it starts with a bullet character followed by a tab and if the paragraph's ruler is named Topic. By convention, the Topic ruler's font is Geneva on Macintosh or Arial on Windows, its text size is 12 and its text style is bold-underlined. The bullet and tab characters should be plain, not bold or underlined.

The easiest way to create a new topic with the right formatting is to copy an existing topic and then modify it.

Once Igor finds a topic declaration, it scans the body of the topic. The body is all of the text until the next topic declaration, a related-topics declaration or the end of the file. While scanning, it notes any subtopics.

Igor considers a paragraph to be a subtopic declaration if the name of the ruler governing the paragraph starts with "Subtopic". Thus if the ruler is named Subtopic or Subtopic+ or Subtopic2, the paragraph is a subtopic declaration. By convention, the Subtopic ruler's font is Geneva on Macintosh or Arial on Windows, its text size is 10 and its text style is bold and underlined. Text following the subtopic name that is not bold and underlined is not part of the subtopic name.

The easiest way to create a new subtopic with the right formatting is to copy an existing subtopic and then modify it.

Igor considers a paragraph to be a related-topics declaration if the ruler governing the paragraph is named RelatedTopics and if the paragraph starts with the text pattern "Related Topics:". When Igor sees this pattern it knows that this is the end of the current topic. The related-topics declaration is optional. Prior to Igor Pro 4, Igor displayed a list of related topics in the Igor Help Browser. Igor Pro no longer displays this list. The user can still click the links in the related topics paragraph to jump to the referenced topics.

Igor knows that it has hit the end of the current topic when it finds the related-topics declaration or when it finds a new topic declaration. In either case, it proceeds to compile the next topic. It continues compiling until it hits the end of the file.

When compiling the help file, Igor may encounter syntax that it can't understand. For example, if you have a related-topics declaration paragraph, Igor will expect the next paragraph to be a topic declaration. If it is not, Igor will stop the compilation and display an error dialog. You need to open the file as a notebook, fix the error, save and kill it and then reopen it as a help file.

Another error that is easy to make is to fail to use the plain text format for syntactic elements like bullet-tab, "Related Topics:" or the comma and space between related topics. If you run into a non-obvious compile error in a topic, subtopic or related topics declaration, recreate the declaration by copying from a working help file.

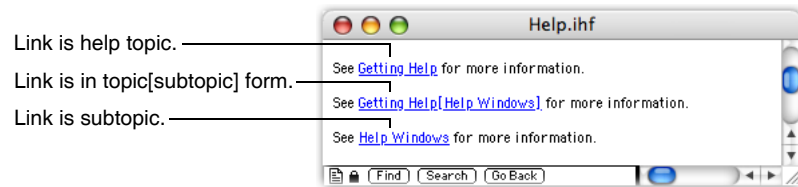
The help files supplied by WaveMetrics contain a large number of rulers to define various types of paragraphs such as topic paragraphs, subtopic paragraphs, related topic paragraphs, topic body paragraphs and so on. The Igor Help File Template contains many but not all of these rulers. If you find that you need to use a ruler that exists in a WaveMetrics help file but not in your help file then copy a paragraph governed by that ruler from the WaveMetrics help file and paste it into your file. This will transfer the ruler to your file.

Creating Links

A link is text in an Igor help file that, when clicked, takes the user to some other place in the help. Igor considers any pure blue, underlined text to be a link. Pure blue means that the RGB value is (0, 0, 65535). By convention links use the Geneva font on Macintosh and the Arial font on Windows.

To create a link, select the text in the notebook that you are preparing to be a help file. Then choose Make Help Link from the Notebook menu. This sets the text format for the selected text to pure blue and underlined.

The link text refers to another place in the help using one of the following forms:



When the user double-clicks a link, Igor performs the following search:

1. If the link is a topic name, Igor goes to that topic.
2. If the link is in topic[subtopic] form, Igor goes to that subtopic.
3. If steps 1 and 2 fail, Igor searches for a subtopic with the same name as the link. First, it searches for a subtopic in the current topic. If that fails, it searches for a subtopic in the current help file. If that fails, it searches for a subtopic in all help files.
4. If step 3 fails, Igor searches all help files in the Igor Pro folder. If it finds the topic in a closed help file, it opens and displays it.
5. If all of the above fail, Igor displays a dialog suggesting that the required help file is not available.

You can create a link in a help file that will open a Web page or FTP site in the user's Web or FTP browser. You do this by entering the Web or FTP URL in the help file while you are editing it as a notebook. The URL must appear in this format:

```
<http://www.wavemetrics.com>
<ftp://ftp.wavemetrics.com>
```

The URL must include the angle brackets and the "http://" or "ftp://" protocol specifier.

After entering the URL, select the entire URL (including the angle brackets) and choose Make Help Link from the notebook menu. Once the file is compiled and opened as a help file, clicking the link will open the user's Web or FTP browser and display the specified URL.

It is currently not possible make ordinary text into a Web or FTP link. The text must be an actual URL in the format shown above or you can insert a notebook action which brings up a web page using the **BrowseURL** operation on page V-36. See **Notebook Action Special Characters** on page III-17 for details.

Checking Links

You can get Igor to check your help links as follows:

1. Open your Igor help file and any other help files that you link to.
2. Activate your help window and click at the very start of the help text.
3. Press Command-Shift-Option-H (*Macintosh*) or Ctrl+Shift+Alt+H (*Windows*). Igor will check your links from where you clicked to the end of the file and note any problems by writing diagnostics to the history area of the command window.
4. When Igor finishes checking, if it found bad links, kill the help file and open it as a notebook.
5. Use the diagnostics that Igor has written in the history to find and fix any link errors.
6. Save the notebook and kill it.
7. Open the notebook as a help file. Igor will compile it.
8. Repeat the check by going back to Step 1 until you have no bad links.

Chapter II-1 — Getting Help

You can abort the check by pressing Command-period (*Macintosh*) or Ctrl-Break (*Windows*) and holding it for a second.

The diagnostic that Igor writes to the history in case of a bad link is in the form:

```
Notebook $nb selection={(33,292), (33,334)} ...
```

This is set up so that you can execute it to find the bad link. At this point, you have opened the help file as a notebook. Assuming that it is named Notebook0, execute

```
String/G nb = "Notebook0"
```

Now, you can execute the diagnostic commands to find the bad link and activate the notebook. Fix the bad link and then proceed to the next diagnostic. It is best to do this in reverse order, starting with the last diagnostic and cutting it from the history after fixing the problem.

When fixing a bad link, check the following:

- A link is the name of a topic or subtopic in a currently open help file. Check spelling.
- There are no extraneous blue/underlined characters, such as tabs or spaces, before or after the link. (You can not identify the text format of spaces and tabs by looking at them. Check them by selecting them and then using the Set Text Format dialog.)
- There are no duplicate topics. If you specify a link in topic[subtopic] form and there are two topics with the same topic name, Igor may not find the subtopic.

Technical Support

WaveMetrics provides technical support via telephone and email.

Before contacting WaveMetrics, please gather this information so that we can help you more effectively:

- The exact version of Igor you are running. The version number is displayed in the About Igor dialog displayed when Igor is launched.
- Which operating system you are running.

In most cases, we need to reproduce your problem in order to solve it. It is best if you can provide a simplified example showing the problem.

Email Support

Send technical questions to us via email at:

```
support@wavemetrics.com
```

For information on upgrades and other nontechnical information, send queries to:

```
sales@wavemetrics.com
```

FTP Sites

Several FTP sites store the latest versions of Igor technical notes, utilities and user contributions. A list of these sites is maintained on our support web page at:

```
http://www.wavemetrics.com/support/
```

World Wide Web

You will find our Web site at:

```
http://www.wavemetrics.com/
```

You can also choose Help→WaveMetrics Home Page.

Our Web site contains a page for searching our support database, and links to Igor-related FTP sites and to Igor users' Web pages. In addition, it contains a number of cool graphs. We are always grateful for new cool graphs. Contact us at sales@wavemetrics.com if you have a cool graph to share.

WaveMetrics Support Web Page

The support Web page includes a searchable support database and archives of the Igor Mailing List. The WaveMetrics support Web address is:

<http://www.wavemetrics.com/support/>

You can also choose Help→Support Web Page.

Igor Mailing List

The Igor mailing list is an Internet discussion list that provides a way for Igor Pro users to help one another and to share solutions and ideas. WaveMetrics also uses the list to post information on the latest Igor developments. For information about subscribing and other details about the mailing list, please visit this web page:

<http://www.wavemetrics.com/users/maillinglist.htm>

IgorExchange

IgorExchange is a user-to-user support and collaboration web site sponsored by WaveMetrics but run by and for Igor users. For information about IgorExchange, please visit this web page:

<http://www.igorexchange.com>

Telephone Support

You can reach us at 503-620-3001 from 9 AM to 5 PM Pacific time.

It is often very helpful if you can try things on your computer while speaking to us so, if possible, call us from a phone near your computer.

FAX Support

You can reach our FAX machine any time at 503-620-6754.

Help Shortcuts

Action	Shortcut (Macintosh)	Shortcut (Windows)
To activate Igor Tips	Press Option-Help.	—
To get a contextual menu of commonly-used actions	Press Control and click in the body of an Igor help window.	Right-click in an Igor help window.
To activate the Igor Help Browser	Press Help or click the Igor Help Browser icon in the lower-right corner of the command window.	Press F1 or click the Igor Help Browser icon in the lower-right corner of the command window.
To jump to a topic in an Igor help window	Click a blue underlined topic link in the help window.	Click a blue underlined topic link in the help window.
To jump back to recently visited topics	Click the Go Back button at the bottom of the help window or press Command-B. Press Command-Shift-B to hide the current help window when going back to a different help window.	Click the Go Back button at the bottom of the help window or press Ctrl+B. Press Shift+Ctrl+B to hide the current Igor help window when going back to a different Igor help window.
To execute commands in an Igor help window	Select the commands and press Control-Return or Control-Enter.	Select the commands and press Ctrl+Enter.
To kill a help window	Option-click the close button.	Press Alt and click the close button.
To insert a function or operation template in a procedure window or in the command line	Type or select the name of an Igor operation or function and Control-click it or press Shift-Help.	Type or select the name of an Igor operation or function and right-click it or press Ctrl+F1.
To get help for a function or operation from a procedure, notebook or help window or from the command line	Type or select the name of an Igor operation or function and Control-click it or press Shift-Option-Help.	Type or select the name of an Igor operation or function and right-click it or press Ctrl+Alt+F1.
