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The Index contains a list of all Help topics available for GToys. For information on how to use Help, press F1 or choose Using Help from the Help menu.

Edit Menu

The Edit menu includes commands that enable you to clear the active window, edit the current palette, and move images to and from the clipboard.

For more information, select the Edit menu command name.

Clr Clears the window.

Copy Copies the image in the window to the clipboard.

Paste Moves an image from the clipboard to the window.

Commands Menu

The Commands menu includes two commands: Render and Stop.

For more information, select the Command menu command name.

Clear Clears the window.

Copy Copies the image in the window to the clipboard.

Paste Moves an image from the clipboard to the window.

Draw Menu

The Draw menu includes commands that enable you to choose which type of fractal image to generate.

For more information, select the Draw menu command name.

Palette Test Displays the current palette in circle or quarter circle.

Mandelbrot Selects the Mandelbrot set.

Julia Selects the Julia set.

Dragon Selects fractal dragons as the image to render.

Viewport Menu

The Draw menu includes commands that enable you to choose which type of fractal image to generate.

For more information, select the Edit menu command name.

Mandelbrot Selects the Mandelbrot set.

Julia Selects the Julia set.

Dragon Selects fractal dragons as the image to render.

Options Menu

The Options menu includes commands that enable you to choose which type of fractal image to generate.

For more information, select the Edit menu command name.

Dither Toggles whether to use the device's closest color match or the nearest system color (there are only 16 system colors).

Julia Selects the Julia set.

Dragon Selects fractal dragons as the image to render.

Coming Attractions

Here are a few of the things I am working on:

Palette animator

Iterated Function Systems

Speeding up fractal calculation and screen painting

File I/O

 Windows 3.0 and OS/2 bitmaps

 Maybe TIFF or PCX

Optional status window that tells you:

 what you are drawing

 percent completed

 elapsed time, remaining time

Printing

New Features

Since this is the first release, they are *all* new features.-

Known Bugs

If I waited until all the bugs were out and all the features in, I would never publish this.

Bugs:

This help system is barely implemented; a lot of the terms are either unrelated or just stubbed out - expect major improvements next release.

The palette editor works best in 256 color mode; other modes need some work.

Random crashes still occur - fixes in progress.

File Menu

The File menu includes commands that enable you to open and save files, establish a new workspace, and to print. The file menu is only present in the Deluxe version of GTOYS.EXE.

For more information, select the File menu command name.

Exit

New

Open

Print

Save

Save As

Glossary

clipboard

mandelbrot

julia

dragon

fractal

DIB

DDB

Mandelbrot, Benoit

Julia

Copying Text

This topic explains how to copy text to and from the clipboard. (This topic is associated with the keywords "copy" and "clipboard.")

Deleting Text

This topic explains how to delete text. (This topic is associated with the keywords "delete" and "clipboard.")

Exiting

To exit GTOYS, choose Exit from the File menu, or from the system menu.

Edit Clear Command

To clear the active window, choose CLEAR off the EDIT menu.

Edit Copy Command

To copy an image from the active window to the clipboard, choose COPY off of the EDIT menu.

This operation will put the current image onto the clipboard in two formats:

Device Dependent Bitmap Format (DDB)

Device Independent Bitmap Format (DIB)

Edit Paste Command

To paste an image from the clipboard to the current window, select PASTE from the edit menu.

About the only reason you would want to do this is to animate the palette of a bitmap you have on the clipboard.

File Exit Command

This topic explains the File menu's Exit command.

File New Command

This topic explains the File menu's New command.

File Open Command

This topic explains the File menu's Open command.

File Print Command

This topic explains the File menu's Print command.

File Save Command

This topic explains the File menu's Save command.

File Save As Command

This topic explains the File menu's Save As command.

Edit Window

The edit window in the sample application really doesn't let you edit anything.

Maximize Icon

This topic describes the maximize icon.

Minimize Icon

This topic describes the minimize icon.

Windows Keys

The keyboard topics below come from Help for Windows. You can create similar keyboard topics for your application's Help. Choose from the following list to review the keys used in Windows:

[Cursor Movement Keys](#)

[Dialog Box Keys](#)

[Editing Keys](#)

[Help Keys](#)

[Menu Keys](#)

[System Keys](#)

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[Window Keys](#)

Cursor Movement Keys

Key(s)	Function
DIRECTION key	Moves the cursor left, right, up, or down in a field.
End or Ctrl+Right Arrow	Moves to the end of a field.
Home or CTRL+Left Arrow	Moves to the beginning of a field.
PAGE UP or PAGE DOWN	Moves up or down in a field, one screen at a time.


Dialog Box Keys

Key(s)	Function
TAB	Moves from field to field (left to right and top to bottom).
SHIFT+TAB	Moves from field to field in reverse order.
ALT+letter	Moves to the option or group whose underlined letter matches the one you type.
DIRECTION key	Moves from option to option within a group of options.
ENTER	Executes a command button. Or, chooses the selected item in a list box and executes the command.
ESC	Closes a dialog box without completing the command. (Same as Cancel)
ALT+DOWN ARROW	Opens a drop-down list box.
ALT+UP or DOWN ARROW	Selects item in a drop-down list box.
SPACEBAR	Cancels a selection in a list box. Selects or clears a check box.
CTRL+SLASH	Selects all the items in a list box.
CTRL+BACKSLASH	Cancels all selections except the current selection.
SHIFT+ DIRECTION key	Extends selection in a text box.
SHIFT+ HOME	Extends selection to first character in a text box.
SHIFT+ END	Extends selection to last character in a text box

Editing Keys

Key(s)	Function
Backspace	Deletes the character to the left of the cursor. Or, deletes selected text.
Delete	Deletes the character to the right of the cursor. Or, deletes selected text.

Help Keys

Key(s)	Function
F1	<p>Gets Help and displays the Help Index for the application. If the Help window is already open, pressing F1 displays the "Using Windows Help" topics.</p> <p>In some Windows applications, pressing F1 displays a Help topic on the selected command, dialog box option, or system message.</p>
SHIFT+F1	<p>Changes the pointer to  so you can get Help on a specific command, screen region, or key. You can then choose a command, click the screen region, or press a key or key combination you want to know more about.</p> <p>(This feature is not available in all Windows applications.)</p>

Menu Keys

Key(s)	Function
Alt	Selects the first menu on the menu bar.
Letter key	Chooses the menu, or menu item, whose underlined letter matches the one you type.
Alt+letter key	Pulls down the menu whose underlined letter matches the one you type.
LEFT or RIGHT ARROW	Moves among menus.
UP or DOWN ARROW	Moves among menu items.
Enter	Chooses the selected menu item.

System Keys

The following keys can be used from any window, regardless of the application you are using.

Key(s)	Function
Ctrl+Esc	Switches to the Task List.
Alt+Esc	Switches to the next application window or minimized icon, including full-screen programs.
Alt+TAB	Switches to the next application window, restoring applications that are running as icons.
Alt+PrtSc	Copies the entire screen to Clipboard.
Ctrl+F4	Closes the active window.
F1	Gets Help and displays the Help Index for the application. (See Help Keys)

Text Selection Keys

Key(s)	Function
SHIFT+LEFT or RIGHT ARROW	Selects text one character at a time to the left or right.
SHIFT+DOWN or UP	Selects one line of text up or down.
SHIFT+END	Selects text to the end of the line.
SHIFT+HOME	Selects text to the beginning of the line.
SHIFT+PAGE DOWN	Selects text down one window. Or, cancels the selection if the next window is already selected.
SHIFT+PAGE UP	Selects text up one window. Or, cancels the selection if the previous window is already selected.
CTRL+SHIFT+LEFT or RIGHT ARROW	Selects text to the next or previous word.
CTRL+SHIFT+UP or DOWN ARROW	Selects text to the beginning (UP ARROW) or end (DOWN ARROW) of the paragraph.
CTRL+SHIFT+END	Selects text to the end of the document.
CTRL+SHIFT+HOME	Selects text to the beginning of the document.

Window Keys

Key(s)	Function
ALT+SPACEBAR	Opens the Control menu for an application window.
ALT+Hyphen	Opens the Control menu for a document window.
Alt+F4	Closes a window.
Alt+Esc	Switches to the next application window or minimized icon, including full-screen programs.
Alt+TAB	Switches to the next application window, restoring applications that are running as icons.
Alt+ENTER	Switches a non-Windows application between running in a window and running full screen.
DIRECTION key	Moves a window when you have chosen Move from the Control menu. Or, changes the size of a window when you have chosen Size from the Control menu.

Clipboard

The Windows clipboard enables you to share data between applications. If you copy an image to the clipboard, you can then paste it into any Windows application that contains clipboard support.

Example:

Problem:

You want to save the bitmap in your current window in TIFF format.

Solution:

Copy the image to the clipboard. Paste it into an application that supports the TIFF file format. Save the image from that application.

Mandelbrot Set

A set of curves that draws that neat pattern.

Julia Set

A subset of the Mandelbrot set.

Dragons

A kind of fractal image.

Fractal

A term coined by Benoit Mandelbrot to describe all curves whose Hausdorff-Besicovitch dimension is greater than their Euclidian dimension.

DIB

Bitmap that contains no device-specific information.

DDB

Bitmap that relies on the specific characteristics of a device for proper display (resolution, number of colors, pixel aspect ratio).

Benoit Mandelbrot

Some mathematician that published research on this stuff. Coined the term "fractal".

Julia

Some mathematician that discovered the set with interesting properties.

animate

In the advanced version of GToys, you can select ANIMATE off the Options menu. This will rotate the palette entries, creating an interesting effect.

