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Overview

Welcome to **Xinorbis 8**. If you don't find an answer to your problem in this manual then feel free to send us an email!

Xinorbis has been designed to be a simple to use, but powerful folder and disk analysis tool.

The software is capable of doing a quick analysis of a folder, hard disk, or other storage device. For desktop users and network administrators it should make finding unwanted content much easier. Being able to compare drives or folders (*Folder History*) to how they were many days/weeks/months or even years ago is going to make spotting space wasting material or wasteful users much easier and quicker than conventional means.

Once a scan has been completed Xinorbis will update its table and graphs. It's then possible to create all manner reports from the data.

Xinorbis is a powerful program so **please** read (and print if possible) the whole of this manual; you'll find lots of interesting information on all of Xinorbis' features that will help you make the most of the application.

If you have any suggestions on how to improve this software or identify any bugs then **please** email me at the address on the *Credits* page.

There are several ways of accessing help from within Xinorbis, should you need it:

Most of Xinorbis' windows have this button located in the bottom left hand corner. Clicking it will open window-specific help.

The Search, File History Search and File History Compare sections have these buttons:

Open the main search parameters help page.

Opens the "search parameters" tool window (or press `F3`)

or from anywhere:

Select the "Help" item from the Help menu (or press `F1`).

Select the "Context Help" item from the Help menu (or press `F2`).

Conventions

Xinorbis uses the following conventions when dealing with file sizes:

1 kilobyte (1KB)	= 1024 bytes
1 megabyte (1MB)	= 1048576 bytes (1024 x 1024)
1 gigabyte (1GB)	= 1073741824 bytes (1024 x 1024 x 1024)
1 terabyte (1TB)	= 1099511627776 bytes (1024 x 1024 x 1024 x 1024)

Not all applications follow this convention but as well as being the most commonly used throughout the industry it's also how Windows reports file sizes.

It's worth noting that hard disk manufacturers tend to use a slightly different method when reporting hard disk sizes:

1 megabyte (1MB)	= 1000000 (1000 x 1000)
1 gigabyte (1GB)	= 1000000000 bytes (1000 x 1000 x 1000)
1 terabyte (1TB)	= 1000000000000 bytes (1000 x 1000 x 1000 x 1000)

To avoid this ambiguity the International Electrotechnical Commission (IEC) established the following units:

1 kibibyte (1KiB)	= 1024 bytes
1 mebibyte (1MiB)	= 1048576 bytes (1024 x 1024)
1 gibibyte (1GiB)	= 1073741824 bytes (1024 x 1024 x 1024)
1 tebibyte (1TiB)	= 1099511627776 bytes (1024 x 1024 x 1024 x 1024)

They haven't been broadly adopted by the software industry yet, but more and more applications are making use of them. Future versions of Xinorbis will use the kibibyte (eventually).

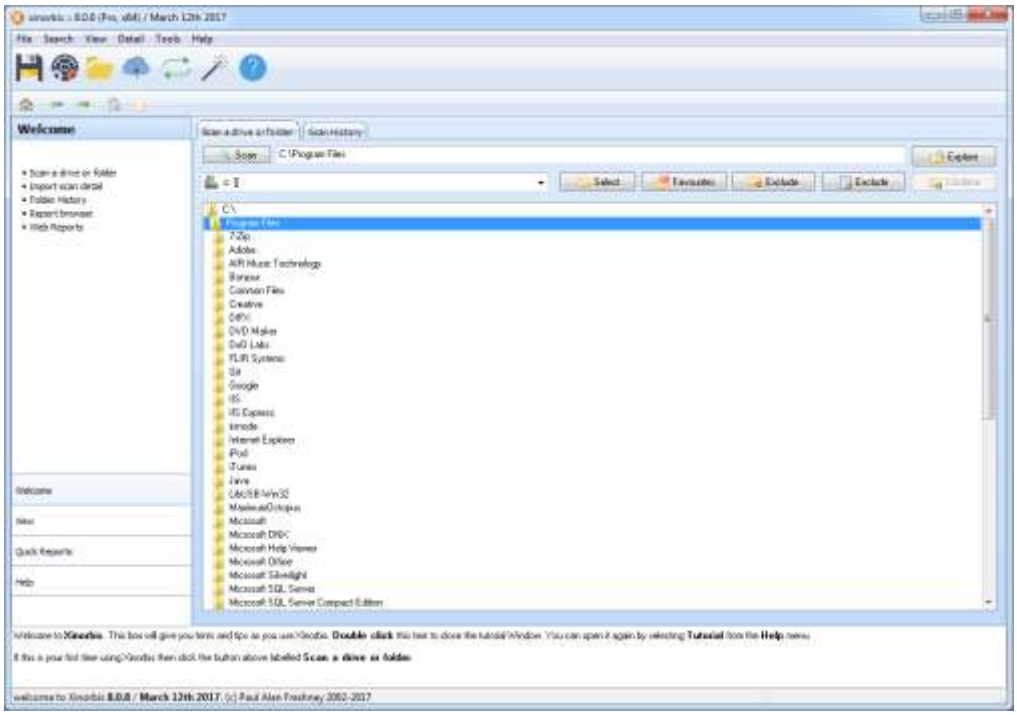
Layout

The Xinorbis window is split in to four discrete sections:

Menu bar.

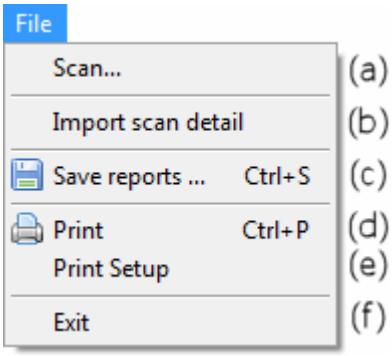
The top two toolbars.

The side panels allow for quick access to the main Xinorbis functions.



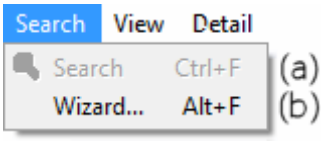
Charts/tables/graphs go here!

Menu bar



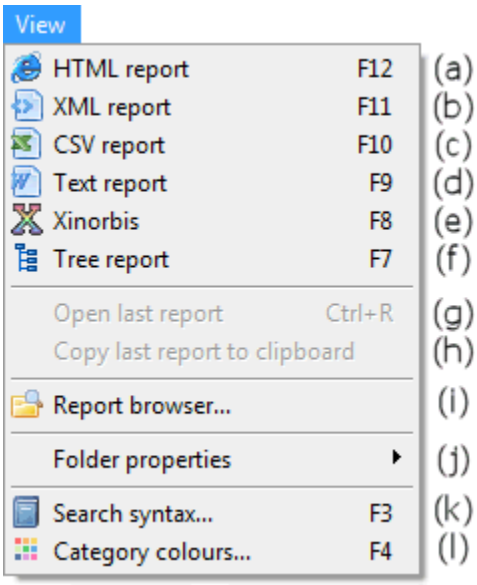
a) Clear all displays
b) Import, from CSV or Xinorbis data
c) Save many reports at once
d) Print the contents of the current tab*
e) Configure print options
f) Exit the program ☹

*Printing with CTRL+P will always ask you to confirm printer settings before printing starts. Use ALT+P to print using the previous settings, without confirmation.

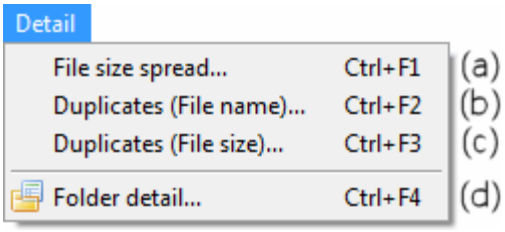


a) Open the *Search Tab*
b) Open the *Search Wizard* (for Search and File History)

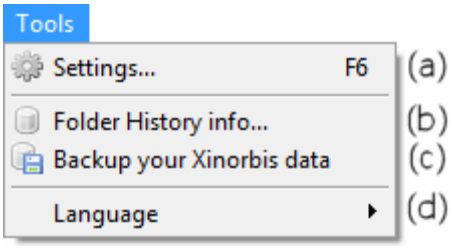
a) Open an HTML report using the Quick settings
b) Open an XML report using the Quick settings
c) Open a CSV report using the Quick settings
d) Open a Text report using the Quick settings
e) Save a Xinorbis report using the Quick settings
f) Save a Tree report using the Quick settings
g) View the last report to be generated
h) Copy the last report to the clipboard
i) Open the report folder path within Windows Explorer
j) View one of the information tabs
k) Open the Search Syntax window
l) Open the Category Colours window



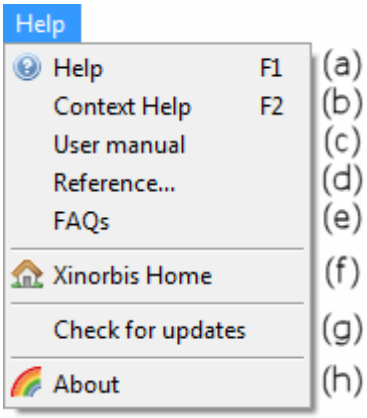
a) Open the File Size Spread window
b) Open the Duplicate File Name window
c) Open the Duplicate File Size window
d) Show detailed folder information



a) Open the settings and configuration window
b) Open the Folder History information window
c) Backup the contents of the Xinorbis data folder*
d) Select Xinorbis' language



a) Open the HTML help pages
b) Open a help page specific to the currently opened tab
c) Open this manual
d) Open the file reference display
e) Open the Xinorbis FAQ website
f) Open the Xinorbis.com website
g) Check for an updated version of Xinorbis
h) Show version information



* Default: "C:\documents and settings\<your user name>\xinorbis" for Windows 2000/XP
"C:\users\<your user name>\xinorbis" for Windows Vista/7/8/10

Xinorbis will not backup the database in ODBC mode.

Top Toolbars

From left to right:

Save multiple reports from the same window.

Open Xinorbis Settings.

Open the report folder in Windows Explorer.
(default: Windows 2000/XP: `c:\documents and settings\<your user name>\Xinorbis`
Windows Vista/7/8/10: `c:\users\<your user name>\Xinorbis`)
Web Reports

Refresh all displays and tables, useful after changing settings. Does not re-scan folder.

Search Wizard

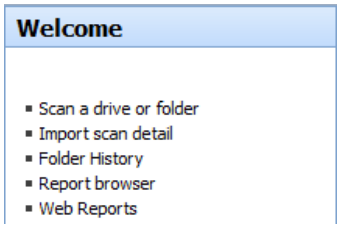
Show help window

Previous page
Next page
Home page
Toggle "privacy" mode. When privacy mode is active all reports will have owner, file and folder details removed.
Temporarily disable Folder History. Useful if you want to scan a folder and don't want its details adding to Folder History.

Side Panels

All of the side panels can be minimised/maximised by clicking the title section.

The "Welcome" panel is the starting point for all of Xinorbis' functionality and power.

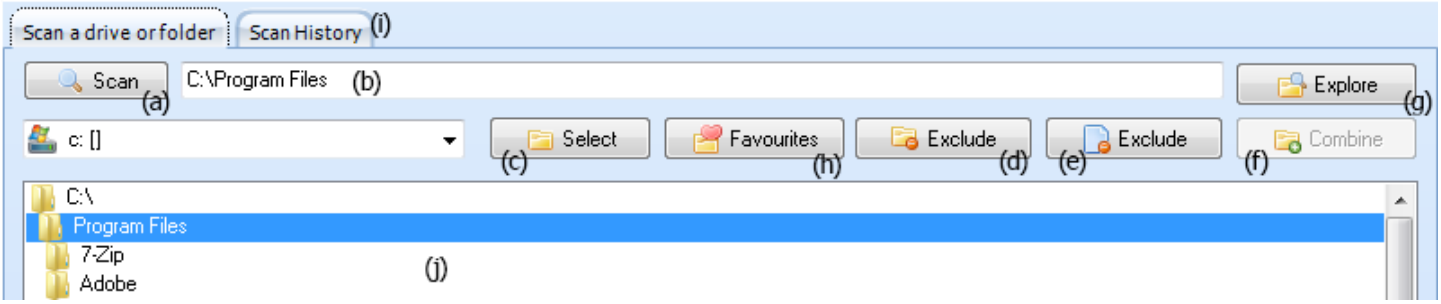


From here you can scan a drive, view the contents of previous scan or compare/view the contents of a folder at different dates/times.

Occasionally one of the options in the Welcome, Tasks or Reports panel may turn green. This is to show that Xinorbis is currently carrying out some important background task. Xinorbis does certain things in the background to keep it responsive and to help keep performance as high as possible. When the background task has finished the text will turn black.

When Folder History is updating it will not be possible to refresh the *Dates*, *History* or *Top 101* tabs in the *Folder Properties* section. This is because doing so could cause corruption to the Folder History database.

Scan a drive or folder



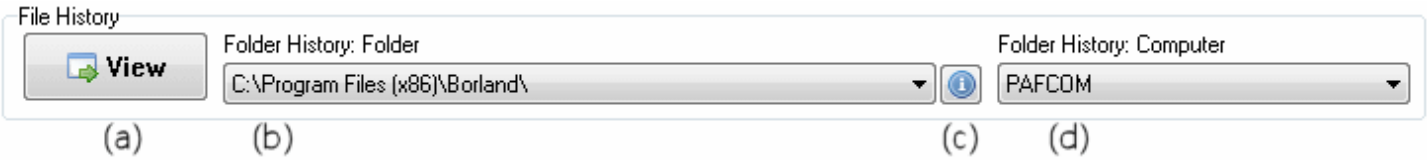
a) Click to scan the folder specified in (2).
b) The folder to scan.
c) Click to open a folder selector dialog.
d) Exclude folders from the scan. *
e) Exclude files from the scan. *
f) Combine multiple folders/drives in to the same scan
g) Explore the folder at (2) with Windows Explorer.
h) Favourites, a list of favourite folders
i) A list of previous scans, with date and time (in reverse order). Items in italics were scanned with excluded files and/or folders.
j) Navigate the folders of the selected drive

Pressing the right mouse button on a row of this table will give two options:

Open with explorer, open the folder in Windows Explorer
Open in Folder History, open the Folder History section and view this scan.

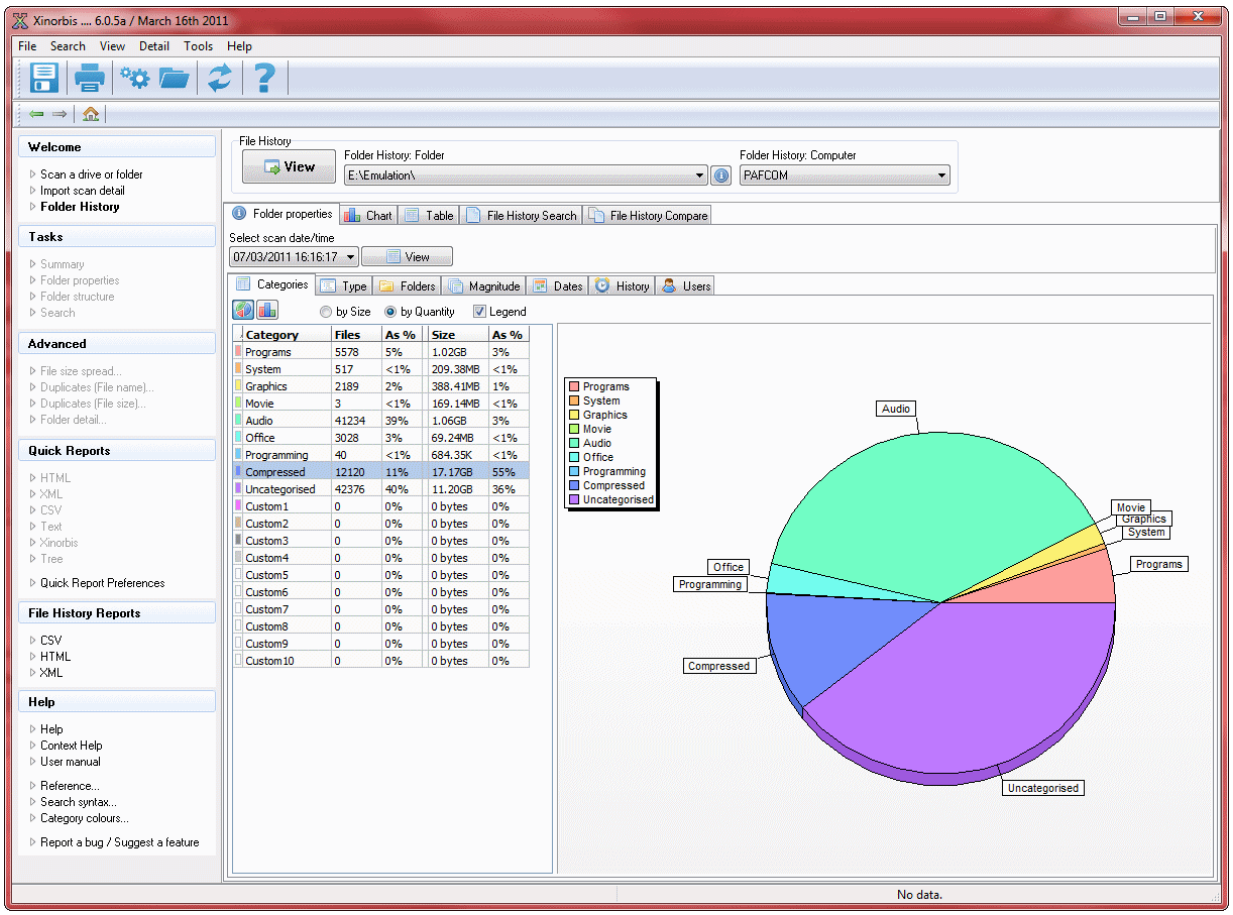
* Be careful when excluding files/folders from the scan as this will affect all of Xinorbis' displays and reports.

File History



a) Open the selected folder (b) within Folder History.
b) The currently selected folder.
c) View a list of scans for the selected computer/folder combination.
d) The computer where the folder lies (only really useful for portable users).

Folder History is where details of previous scans can be analysed and compared. The tabs found within the *Folder Properties* section (**Categories**, **Type**, **Folders**, **Magnitude**, **Dates**, **History** and **Users**) work the same as those found in the main *Folder Properties* section. Folder History is described in much more detail later on in this manual.



The **Chart Tab** allows for the quick comparison of the type, quantity and size of files at previous scan dates.

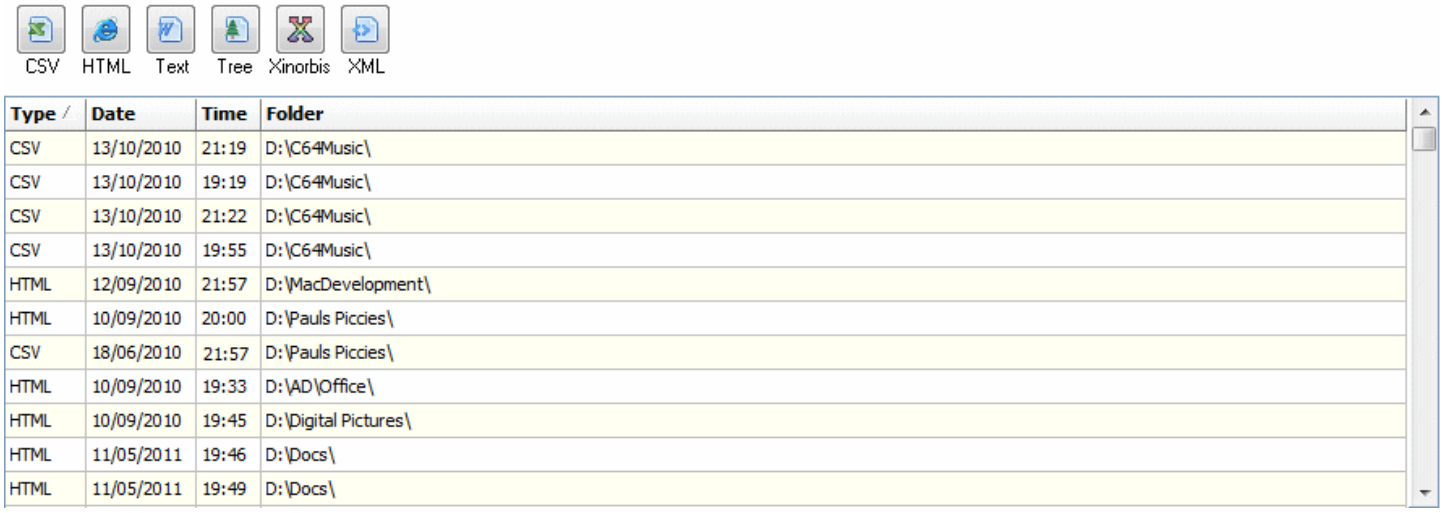
The **Table Tab** is similar to the Chart tab except in table form.

Search for files and folders within any previous scan, selectable from a list on the left.

The **File History Compare Tab** is more sophisticated version of the **Search Tab** that allows for two dates to be scanned, viewed and compared simultaneously.

Report browser

A list of all available reports by type, date, time and scan path.



Type	Date	Time	Folder
CSV	13/10/2010	21:19	D:\C64Music\
CSV	13/10/2010	19:19	D:\C64Music\
CSV	13/10/2010	21:22	D:\C64Music\
CSV	13/10/2010	19:55	D:\C64Music\
HTML	12/09/2010	21:57	D:\MacDevelopment\
HTML	10/09/2010	20:00	D:\Pauls Piccies\
CSV	18/06/2010	21:57	D:\Pauls Piccies\
HTML	10/09/2010	19:33	D:\AD\Office\
HTML	10/09/2010	19:45	D:\Digital Pictures\
HTML	11/05/2011	19:46	D:\Docs\
HTML	11/05/2011	19:49	D:\Docs\

Filter the report list by clicking each of the six buttons at the top to select/deselect a report type.

Double-click on any report to view its contents. Press the right mouse button over any report for two options:

View, show the report's contents.
Open, load in to Xinorbis (CSV and Xinorbis reports only)

Web Reports

Make all of your reports available wherever you are and whenever you need them!

The Web Reports feature will upload all of your reports to a web server (internet, intranet or extranet) of your choice and create portal pages that allow for easy access to the reports using *any* web browser.

Configure
Xinorbis needs your FTP details before it can do any uploading. Customise Web Reports with this option.

Upload
Uploads all of your reports and associated data to the selected server. The first time this process is run it could take a long time, though this is completely dependent on how many reports you have. Subsequent uploads will be much quicker.

View
Open the Web Reports portal, this option requires the `Reports URL` option below to be set.

The area below the above buttons is used to show the status of the upload process.

FTP Configuration details:

FTP Host*
The FTP server address to connect to.

FTP User name / **FTP Password***
The login details required to access the FTP server.

Initial Folder
If Xinorbis is to navigate in to a folder once logged in then put the folder in here. For example, I have to navigate to `public_html` to access my files.

Reports Folder*
The name of the folder to use for Web Reports. Xinorbis will create and manage this folder. For example, `webreports`.

Reports URL
The full URL of the reports path, as required for access with a web browser. For example, `www.example.com/webreports`.

`* Required field.`

Once the upload process has finished it will be possible to access the report list with any web browser by navigating to the folder, e.g. `www.example.com/webreports`. Xinorbis creates two files within the folder, `index.htm` which lists those reports generated from folder scans and `fh.htm` which lists reports generated from Folder History data.

Once a scan has been performed (or data has been loaded) the "Tasks" panel is available.

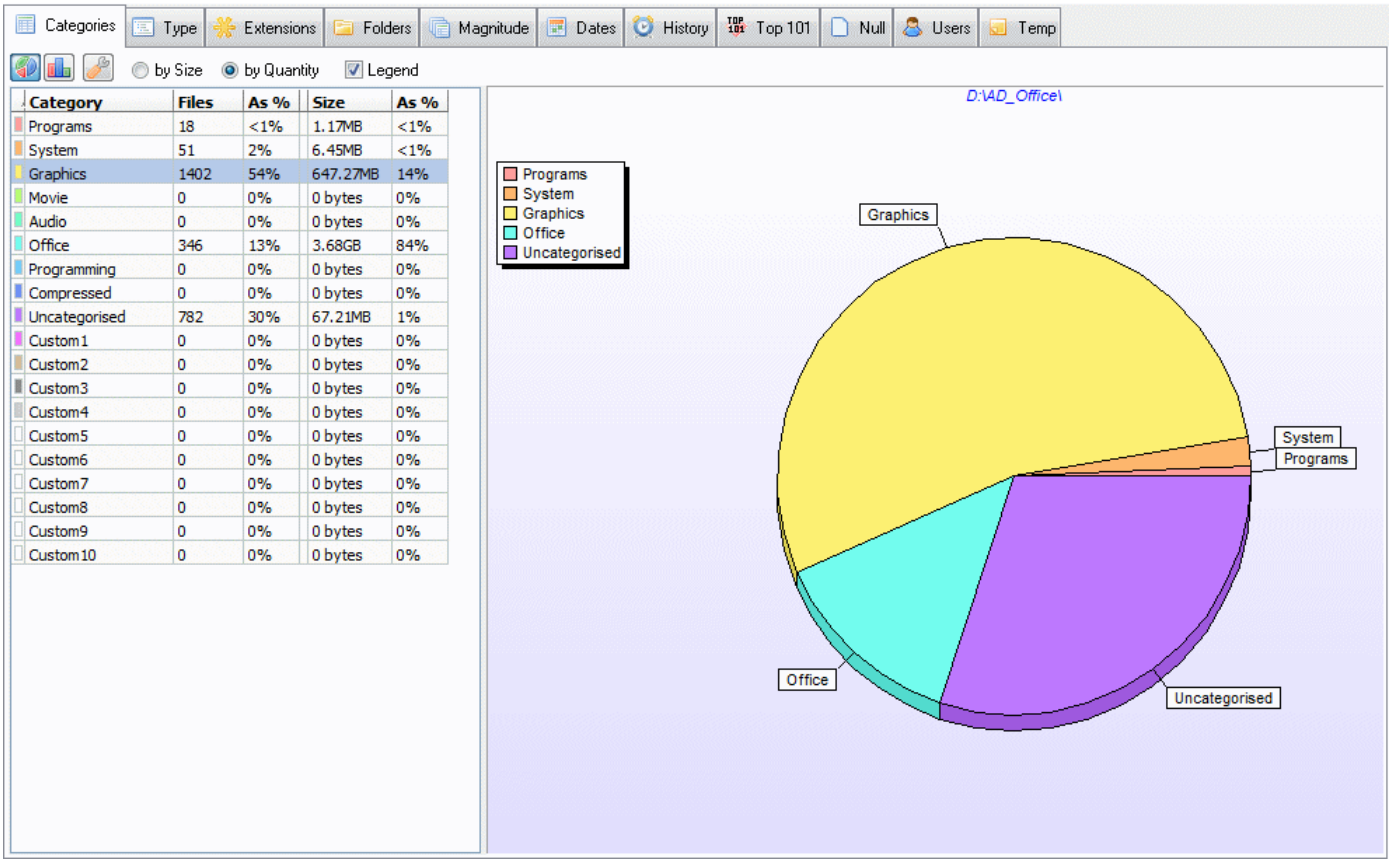
The contents and details of a folder or drive can be viewed in a number of exciting and different ways.

Summary

A customisable summary of the scan results.

Folder Properties

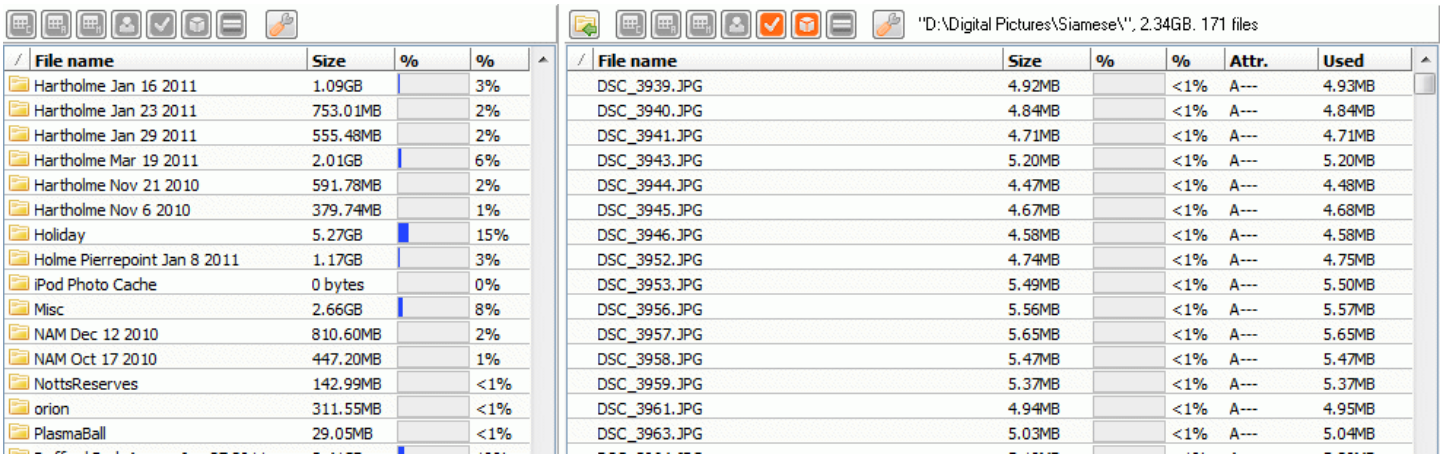
The tabs within the Folder Properties section are built from the current scan data or from imported data (e.g. CSV). They are all described in much more detail later on in this manual.



Category	Files	As %	Size	As %
Programs	18	<1%	1.17MB	<1%
System	51	2%	6.45MB	<1%
Graphics	1402	54%	647.27MB	14%
Movie	0	0%	0 bytes	0%
Audio	0	0%	0 bytes	0%
Office	346	13%	3.68GB	84%
Programming	0	0%	0 bytes	0%
Compressed	0	0%	0 bytes	0%
Uncategorised	782	30%	67.21MB	1%
Custom1	0	0%	0 bytes	0%
Custom2	0	0%	0 bytes	0%
Custom3	0	0%	0 bytes	0%
Custom4	0	0%	0 bytes	0%
Custom5	0	0%	0 bytes	0%
Custom6	0	0%	0 bytes	0%
Custom7	0	0%	0 bytes	0%
Custom8	0	0%	0 bytes	0%
Custom9	0	0%	0 bytes	0%
Custom10	0	0%	0 bytes	0%

Folder Structure

The structure section is a quick and easy way to navigate the folder and file structure of the current scan location. This tab is described in more information later in this manual.



File name	Size	%	%
Hartholme Jan 16 2011	1.09GB		3%
Hartholme Jan 23 2011	753.01MB		2%
Hartholme Jan 29 2011	555.48MB		2%
Hartholme Mar 19 2011	2.01GB		6%
Hartholme Nov 21 2010	591.78MB		2%
Hartholme Nov 6 2010	379.74MB		1%
Holiday	5.27GB		15%
Holme Pierrepoint Jan 8 2011	1.17GB		3%
iPod Photo Cache	0 bytes		0%
Misc	2.66GB		8%
NAM Dec 12 2010	810.60MB		2%
NAM Oct 17 2010	447.20MB		1%
NottsReserves	142.99MB		<1%
orion	311.55MB		<1%
PlasmaBall	29.05MB		<1%

File name	Size	%	%	Attr.	Used
DSC_3939.JPG	4.92MB		<1%	A---	4.93MB
DSC_3940.JPG	4.84MB		<1%	A---	4.84MB
DSC_3941.JPG	4.71MB		<1%	A---	4.71MB
DSC_3943.JPG	5.20MB		<1%	A---	5.20MB
DSC_3944.JPG	4.47MB		<1%	A---	4.48MB
DSC_3945.JPG	4.67MB		<1%	A---	4.68MB
DSC_3946.JPG	4.58MB		<1%	A---	4.58MB
DSC_3952.JPG	4.74MB		<1%	A---	4.75MB
DSC_3953.JPG	5.49MB		<1%	A---	5.50MB
DSC_3956.JPG	5.56MB		<1%	A---	5.57MB
DSC_3957.JPG	5.65MB		<1%	A---	5.65MB
DSC_3958.JPG	5.47MB		<1%	A---	5.47MB
DSC_3959.JPG	5.37MB		<1%	A---	5.37MB
DSC_3961.JPG	4.94MB		<1%	A---	4.95MB
DSC_3963.JPG	5.03MB		<1%	A---	5.04MB

Advanced

- File size spread...
- Duplicates (File name)...
- Duplicates (File size)...
- Folder detail...

The "Advanced" panel contains some extra features that compliment "Tasks".

These are discussed in more detail later in this manual.

Quick Reports

- HTML
- XML
- CSV
- Text
- Xinorbis
- Tree
- Quick Report Preferences

Click on any of the six report types to instantly create a report.

1) Create and open a HTML report using the Quick settings. *
2) Create and open an XML report using the Quick settings. *
3) Create and open a CSV report using the Quick settings. *
4) Create and open a Text report using the Quick settings. *
5) Create a Xinorbis report using the Quick settings. *
6) Create a Tree report using the Quick settings. *

It's possible to quickly create and open a new HTML or Text report by pressing the right mouse button over the HTML or Text buttons and selecting "Custom…"

* More information is available on creating reports see the *Customising Xinorbis' reports* section.

As mentioned, all of the reports that are generated by clicking the links above are created using the Quick settings. All settings can be configured from *Settings.*

File History Reports

- CSV
- HTML
- XML

CSV, creates a CSV file of the selected scan data OR if the File History Compare tab is in view, a CSV compare report.

HTML, creates an HTML reports of the selected scan data OR if the File History Compare is in view, an HTML compare report.

XML, creates an XML reports of the selected can data OR if the File History Compare is in view, an HTML compare report.

These all use the *Quick* setting. (see *Settings* for more information) Click with the left mouse button to create the report. Click with the middle mouse button to create the report and open.

Help

- Help
- Context Help
- User manual
- Reference...
- Search syntax...
- Category colours...
- Report a bug / Suggest a feature

Click "Context Help" for help on the currently selected page.

"Reference" is a resource of Windows system files and DLLs.

"Search syntax" opens a pop-up window that acts as a useful reference to all of the Xinorbis search functions.

"Category colours" opens a pop-up window showing the Xinorbis categories and corresponding colours (shown on graphs/tables etc.).

Common Functions and Behaviour

All of the charts and tables have extra functionality that can be accessed via a popup menu, press the right mouse button over a table, chart, tree or list to access the menu.

Tables

Double clicking a row of any table will show (in search) the files/folders that are represented by that row. For example, double click the "Graphics" row of the Categories table and you'll be shown all files belonging to the graphics category.

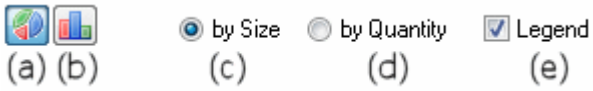
Trees

Double clicking a node or entry of the tree will show (in search) the files/folders that are represented by that entry. For example, double click the "Graphics" node of the Type tree and you'll be shown all files belonging to the graphics category. Double click the ".jpg" entry to see only those files with the .jpg (JPEG) extension.

Charts

The following controls behave in the same way throughout all of Xinorbis' tabs.

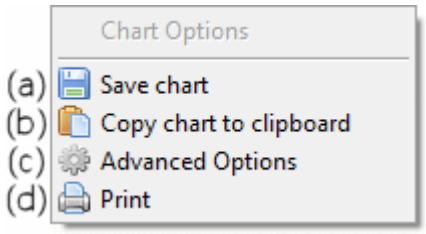
For each tab that contains a graph you'll find the following set of controls:



a) Show as pie chart.
b) Show as bar graph.
c) Show by size of files
d) Show by quantity of files
e) Toggle the graph's legend.

Some pages have an extra "tool" icon located just to the right of the bar chart icon (b). This contains page- specific configuration options.

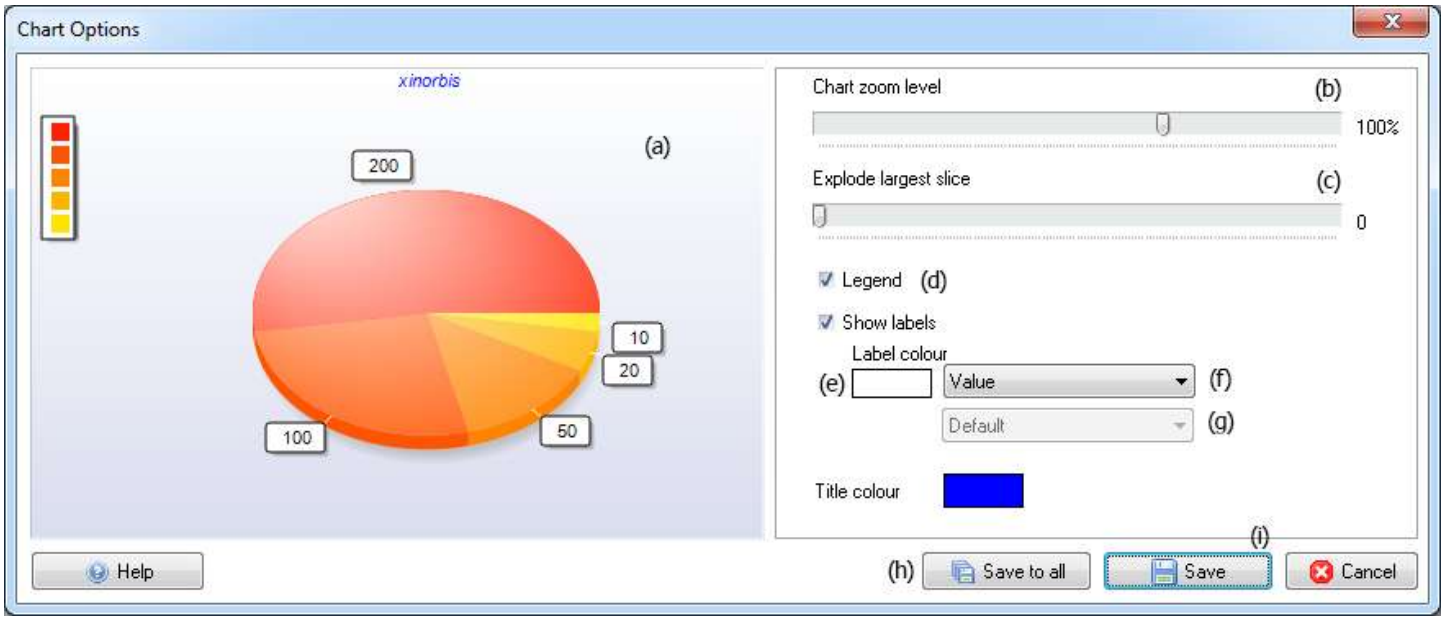
Press the right mouse button over any chart to open the following popup menu:



a) Save the chart as a bitmap image (.bmp).
b) Copy the chart as a bitmap to the clipboard.
c) Open the Advanced chart options dialog (below).
d) Print a copy of the selected chart.

Advanced chart options

Theses extra chart options allow for an increased level of customisation to each of Xinorbis' charts.



a) Example
b) Set the zoom level of the chart [Pie charts only].
c) Make the largest slice "explode" away from the rest of the pie [Pie charts only].
d) Toggle the display of labels
e) Select the label's background colour
f) Select the contents of the label:
    1 Value of the pie slice or bar
    2 Percentage
    3 The label
    4 Label + percentage
    5 Label + value
    6 Legend
    7 Percentage + total
    8 Label + percentage + total
    9 X/Y value
g) Select units for file sizes
h) Save the current settings to ALL Xinorbis charts
i) Save the current settings to only the selected chart

Making Xinorbis faster!

If you're scanning large folders or drives then Xinorbis may seem to take a long time to produce its reports and graphs.

There are a few things you can do to speed things up:

(1) Avoid scanning the `Windows` or `Program Files` folders unless you really need to.

These tend to be large folders; the contents of which will be of little use to most users.

Use the `Exclude Folders` and `Exclude Files` options to speed things up.

(2) Only scan what you really need to. Don't scan a whole drive when you're only interested in a small part of it.

Use the `Exclude Folders` and `Exclude Files` options to speed things up.

(3) Disable the gathering of file owner details.

If you're scanning a PC that's only ever used by one user, or you aren't interested in the owner (creator) of the files on the PC, then disabling this feature will improve scan times considerably.

`Settings->General->Optimisations->Don't get file owner details.`

(4) Change the update speed of the application.

By changing the update speed of the application your scan times will drop but Xinorbis will *appear* to not respond to mouse or key commands (while scanning).

`Settings->General->Optimisations->Scanning progress update/refresh speed`

(5) Enable Just-in-time processing

With this option enabled some graphs and tables will be built only when they need to be, e.g. when they are needed for a report or when they are viewed for the first time. Under normal circumstances Xinorbis will build all tables and graphs after the scan process has finished which could mean it wasting time building a table that won't ever be looked at.

`Settings->General-Optimisations->Just-in-time processing`

(6) Disable Folder History

After every scan Xinorbis records the name and attributes of every file and folder contained in the scan. This can be very useful for seeing how the contents of a folder/drive change over time. If you aren't interested in comparing the contents of scans at different dates then you can safely disable this feature.

From versions 6.0.5 onward this option won't make as much difference to performance, this is because updating of the Folder History is now done in the background.

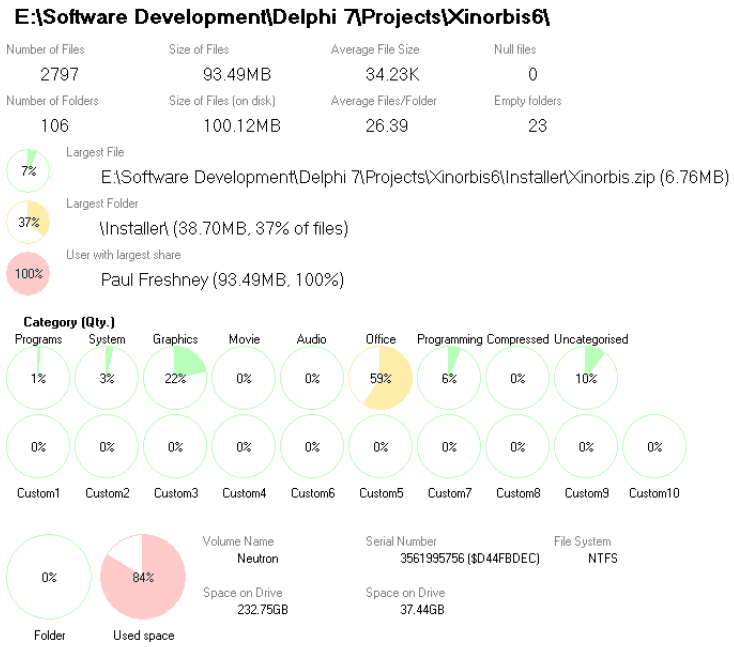
`Settings->General->Enable Folder History`

"Tasks" Panel

It's possible to configure Xinorbis to open a specific section after a scan has finished, please see the *Settings* pages for more information.

Summary

The summary shows a synopsis of the information gathered from the latest scan.



Toggle between quantity of files and size of files for the *category*, *largest file* and *largest user* charts.

Save the contents of the summary to a text file.

The bottom section of the summary shows important hard disk information. If this information cannot be gathered (e.g. if the data was imported from a CSV file) then this section won't be visible.

Drive type can be: `Unknown`, `Removable`, `Hard Disk`, `Remote Drive`, `CD-ROM` or `RAM Disk`

A cluster is the smallest unit of disk space that can be allocated to a file, which is why clusters are often known as "allocation units".

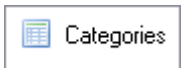
The size of a cluster is calculated by multiplying the number of bytes in a sector by the number of sectors in a cluster. In the example above that would be 512 bytes x 8 = 4096 bytes = 4k. The drive E on the machine in the example can be said to have 4k clusters.

A file of 5k on this drive wouldn't fit in to one cluster; it would need two, and therefore take up 8k of space, wasting 3k.

File System refers to the method in which data is stored on the hard disk. On Windows machines the most common types are FAT32 and NTFS.

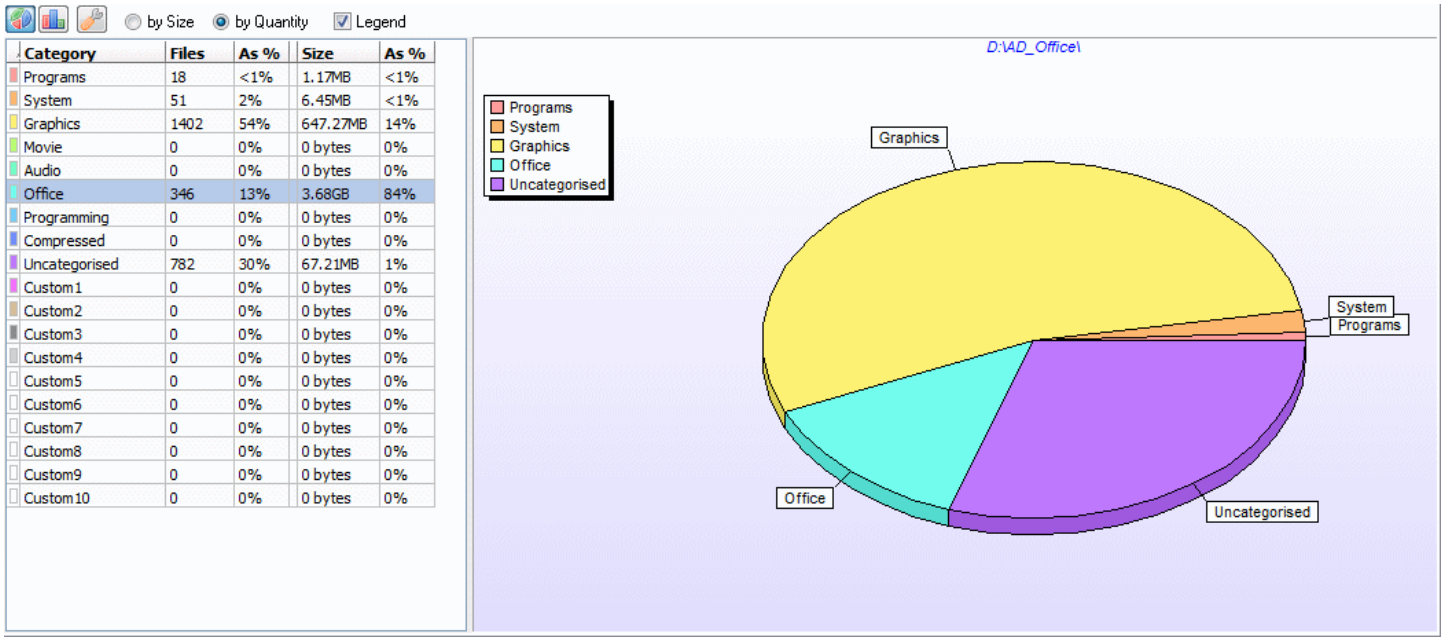
Folder Properties

After a folder or drive has been scanned the eleven tabs that belong to "Folder Properties" will be filled with data and all tables, trees and charts updated.



Categories Tab

A display of the distribution, within the various Xinorbis categories, of files from the drive or folder being scanned. Displayed by size (how the combined size of the files make up the drive) and by quantity (how many of the separate files make up the drive).

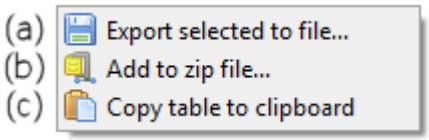


Category	Files	As %	Size	As %
Programs	18	<1%	1.17MB	<1%
System	51	2%	6.45MB	<1%
Graphics	1402	54%	647.27MB	14%
Movie	0	0%	0 bytes	0%
Audio	0	0%	0 bytes	0%
Office	346	13%	3.68GB	84%
Programming	0	0%	0 bytes	0%
Compressed	0	0%	0 bytes	0%
Uncategorised	782	30%	67.21MB	1%
Custom1	0	0%	0 bytes	0%
Custom2	0	0%	0 bytes	0%
Custom3	0	0%	0 bytes	0%
Custom4	0	0%	0 bytes	0%
Custom5	0	0%	0 bytes	0%
Custom6	0	0%	0 bytes	0%
Custom7	0	0%	0 bytes	0%
Custom8	0	0%	0 bytes	0%
Custom9	0	0%	0 bytes	0%
Custom10	0	0%	0 bytes	0%

The second table on the Table Tab displays the number of files that were found to be set as hidden, system, archive, read only, created today, accessed today or modified today and those files of null (zero) length.

Double-clicking on either table will automatically open the *search* section and list all files belonging to the highlighted category or file type.

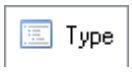
Right-click on the top most table (categories) to open a popup menu with some extra functions:



a) Export the contents of the entire table to a text file.

b) Add all of the files from the selected category OR with the selected file extension to a zip (compressed) file.

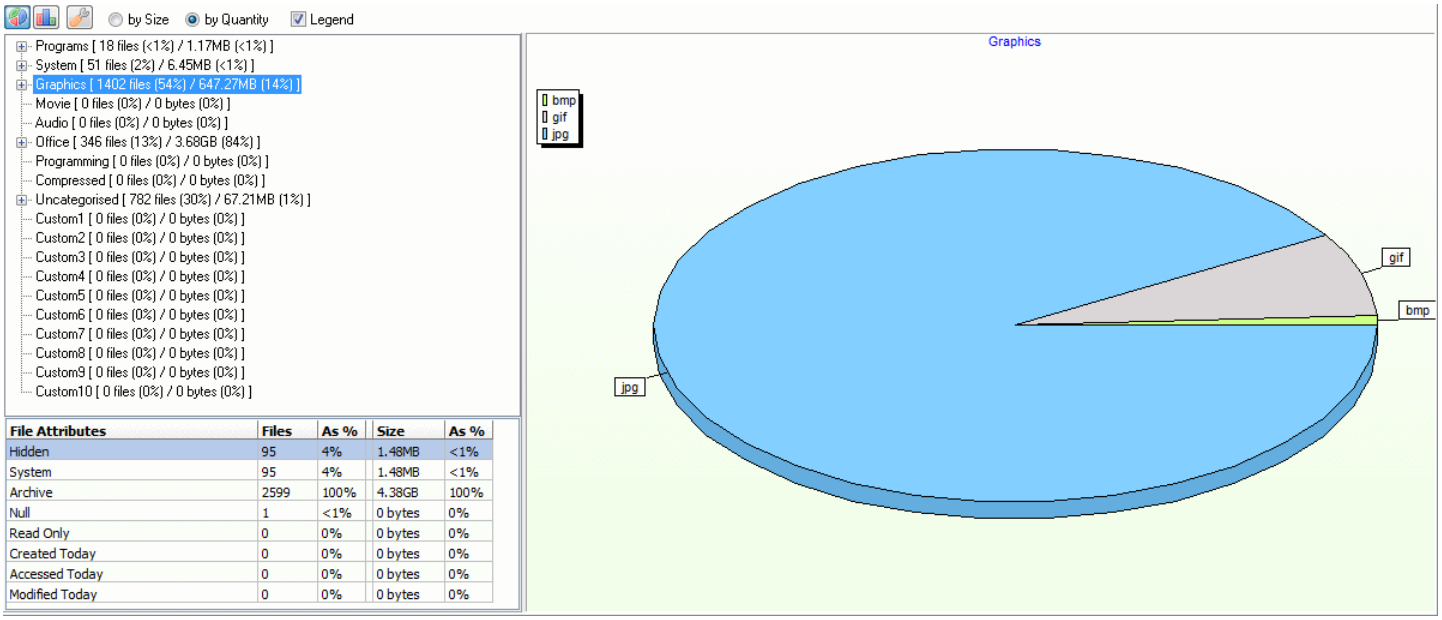
c) Copy the entire tree, in text format, to the clipboard.



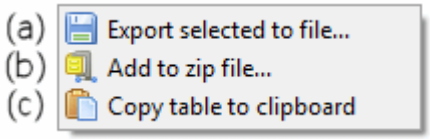
Type Tab

See how the individual file type categories are broken up in to each extension. The user can see how many graphic type files exist and how many of each type of graphic exist; i.e. how many .gif, .jpg etc. are present. Press the left mouse button on a category to toggle a graphic representation of the contents of the category.

Double click on any extension in the tree to see a list of files matching the selected extension.



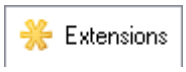
Right-click on the tree to open a popup menu with some extra functions:



a) Export the contents of the entire "tree" to a text file.

b) Add all of the files from the selected category OR with the selected file extension to a zip (compressed) file.

c) Copy the entire tree, in text format, to the clipboard.



Extensions Tab

The file extensions (the part of the file name after the ".", that are used to identify what kind of information the file contains) found in the current scan are listed here, along with the number of files with each extension and the size of those files.

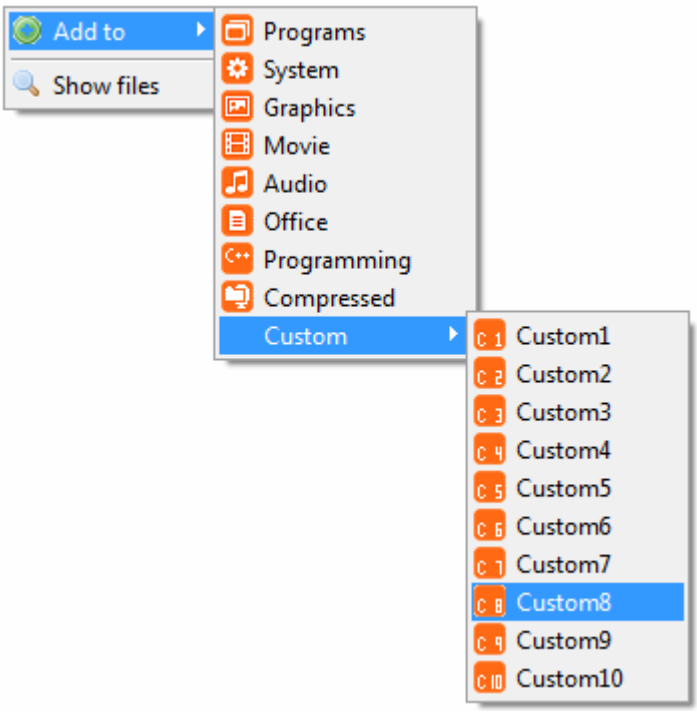
Extension	Qty.	Size	Suggested File Type
.vue	18	153.59MB	VUE - Animation file (3D Studio)
.bak	10	109.89MB	BAK - Backup file
.br4	1	897.66K	BR4 - Bryce3D scene file
.db	6	375.00K	DB - Borderland's Paradox 7 table database
.iff	1	328.03K	IFF - Interchange file, (general purpose data storage format))
.prv	4	263.81K	PRV - Internet provider template file (psiMail)
.jbf	4	147.23K	JBF - Image browser file (Paint Shop Pro)
<none>	1	2.56K	* unknown *
.scc	4	480 bytes	SCC - Source Safe file (Microsoft)

1/2 : SCC - Source Safe file (Microsoft)

Clicking an extension will bring up list of possible file types; e.g. in the example above, Xinorbis suggests that this is a file from Microsoft's Visual Source Safe. Xinorbis can identify over 3000 file extensions.

Double-clicking on an extension will list *all* the files with the selected extension.

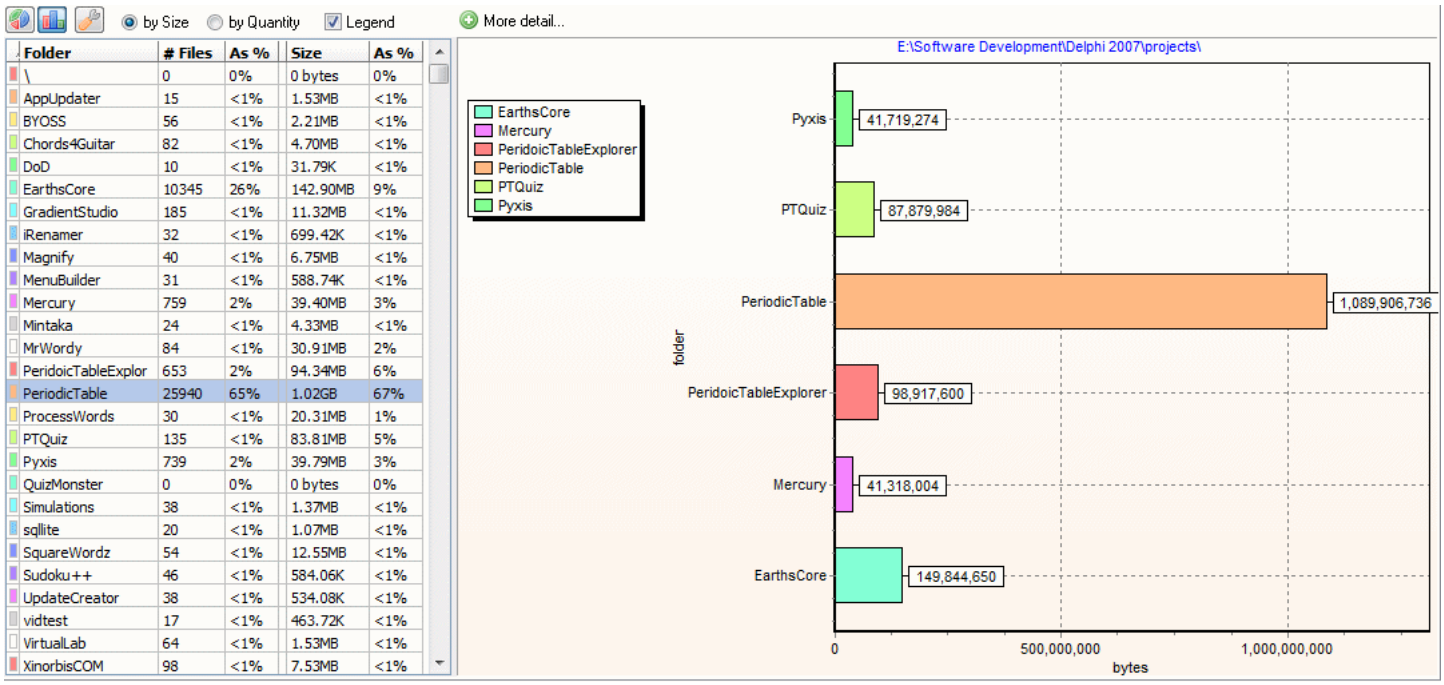
Use the Right Mouse Button on an extension to bring up a menu allowing you to fast-track an extension to the correct category, without the need to go through Settings. It's possible to fast-track more than one extension at a time to the same category. Select multiple rows using `SHIFT+CLICK` or `CONTROL+CLICK`.



Clicking the "Show files" menu item will open the **Search** and list all files that have the selected extension.

Folders Tab

Similar to the Table view it shows how each of the folders with the search path constitutes the given search. The graph below the table gives this information in an easy-to-read form.



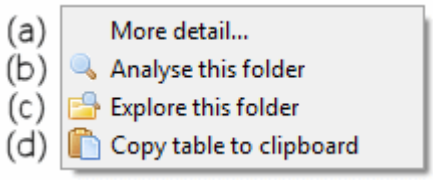
Folder	# Files	As %	Size	As %
\	0	0%	0 bytes	0%
AppUpdater	15	<1%	1.53MB	<1%
BYOSS	56	<1%	2.21MB	<1%
Chords4Guitar	82	<1%	4.70MB	<1%
DoD	10	<1%	31.79K	<1%
EarthsCore	10345	26%	142.90MB	9%
GradientStudio	185	<1%	11.32MB	<1%
iRenamer	32	<1%	699.42K	<1%
Magnify	40	<1%	6.75MB	<1%
MenuBuilder	31	<1%	588.74K	<1%
Mercury	759	2%	39.40MB	3%
Mintaka	24	<1%	4.33MB	<1%
MrWordy	84	<1%	30.91MB	2%
PeridoicTableExplor	653	2%	94.34MB	6%
PeriodicTable	25940	65%	1.02GB	67%
ProcessWords	30	<1%	20.31MB	1%
PTQuiz	135	<1%	83.81MB	5%
Pyxis	739	2%	39.79MB	3%
QuizMonster	0	0%	0 bytes	0%
Simulations	38	<1%	1.37MB	<1%
sqllite	20	<1%	1.07MB	<1%
SquareWordz	54	<1%	12.55MB	<1%
Sudoku++	46	<1%	584.06K	<1%
UpdateCreator	38	<1%	534.08K	<1%
vidtest	17	<1%	463.72K	<1%
VirtualLab	64	<1%	1.53MB	<1%
XinorbisCOM	98	<1%	7.53MB	<1%

Click the "more detail" button (or double click a row in the table) to get a detailed view of the contents of the highlighted folder. Selecting the root folder '\' will show a detailed view of the analysed folder.

The "More detail" functionality is discussed in more detail on the next page.

Use the Filter drop down list to limit the amount of information that is shown on the graph. Add only those results where the percentage of files (either by size or quantity) in each folder is greater than 1%, 2%, 3%, 4%, 5%, 10% or 15%. This can be very useful for making the graph easier to read if you have many folders listed that only contain a small amount of files.

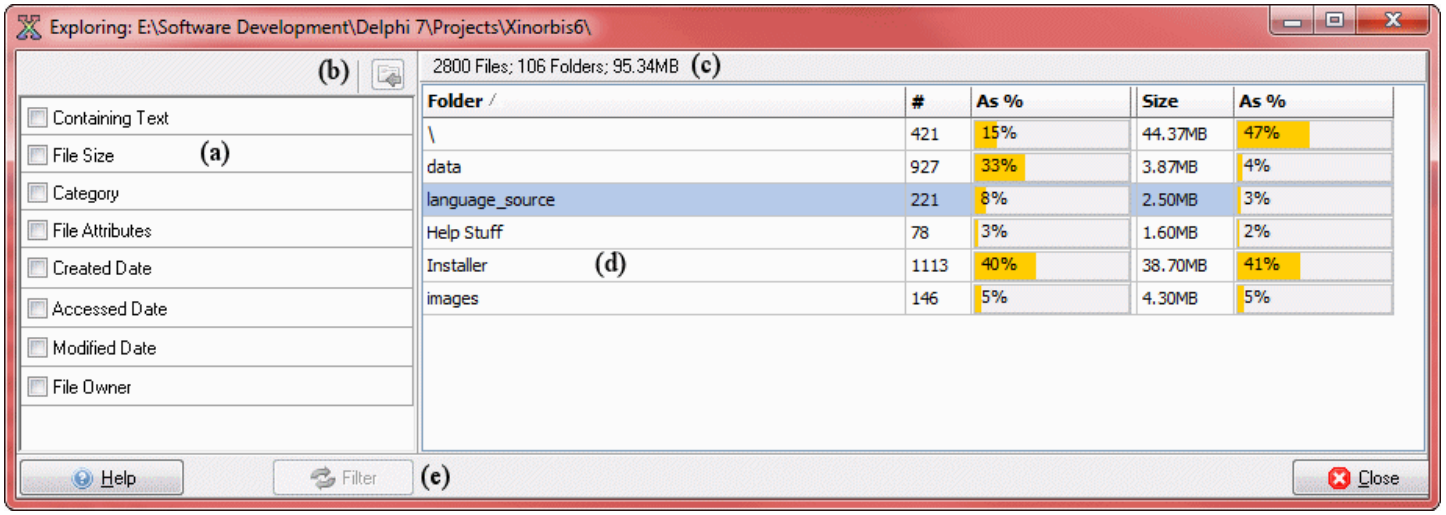
Press the right mouse button on any folder listed in the table to bring up the following popup menu:



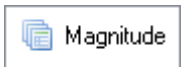
(a) Show more detail on the selected folder (same as clicking on the "more detail" button).
(b) Analyses the highlighted drive (you can't analyse the root '\' folder!).
(c) Open the selected folder in Windows Explorer.
(d) Copy the table, as text, to the clipboard

More Detail display

Double click any folder in the More Detail window to show more detail for the selected folder and its subfolders.



a) Select the filter(s).
b) Go up a level of folder hierarchy.
c) Number of files and folders being shown. Size of included files is also shown.
d) Folders with size and quantity of files.
e) Filter the contents of the folder display.

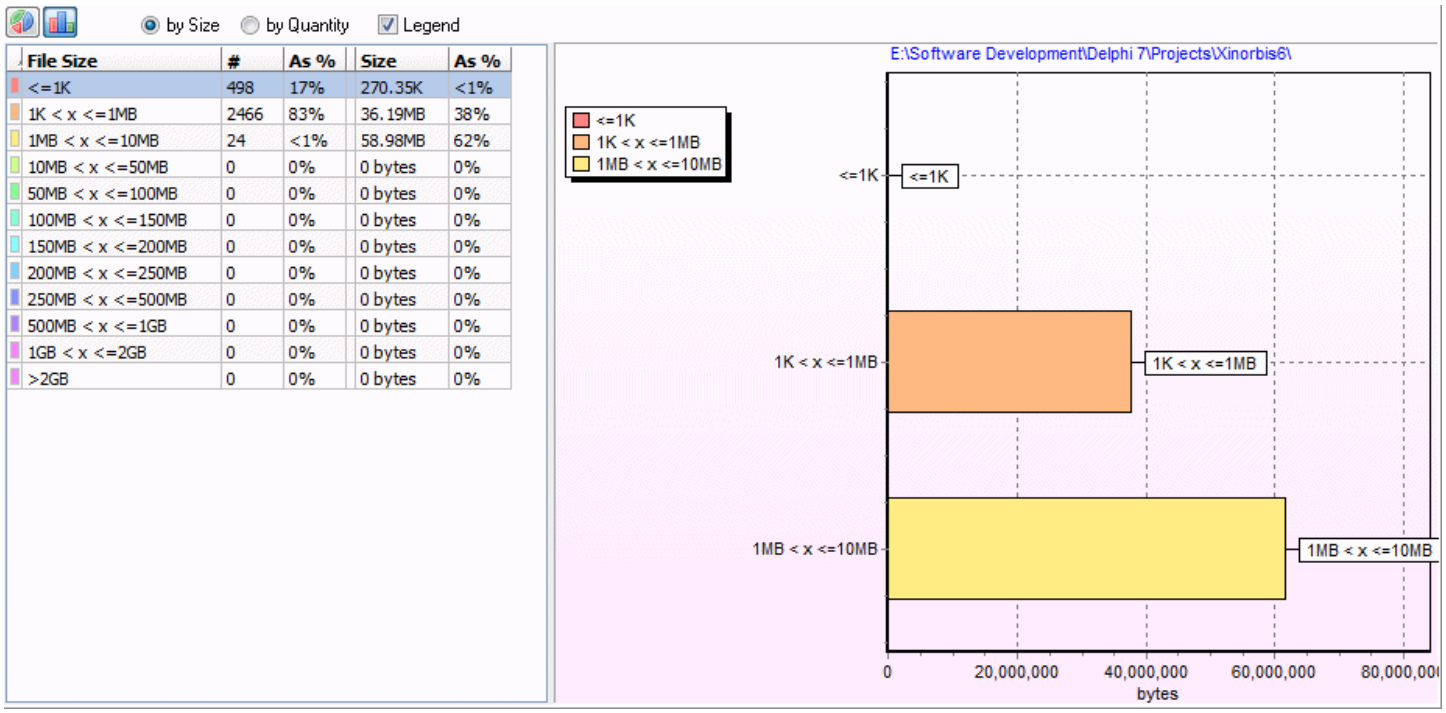


Magnitude Tab

The Magnitude tab shows how the files from the scanned folder are distributed by size. There are eleven ranges that are displayed in the table and graph:

<=1k	Files less than or equal to 1K (1024 bytes)
1K < x <=1MB	Files greater than 1K but less than or equal to 1MB
1MB < x <=10MB	Files greater than 1MB but less than or equal to 10MB
10MB < x <=50MB	Files greater than 10MB but less than or equal to 50MB
50MB < x <=100MB	Files greater than 50MB but less than or equal to 100MB
100MB < x <=150MB	Files greater than 100MB but less than or equal to 150MB
150MB < x <=200MB	Files greater than 150MB but less than or equal to 200MB
200MB < x <=250MB	Files greater than 200MB but less than or equal to 250MB
250MB < x <=500MB	Files greater than 250MB but less than or equal to 500MB
500MB < x <=1GB	Files greater than 500MB but less than or equal to 1GB
1GB < x <=2GB	Files greater than 1GB but less than or equal to 2GB
>2GB	Files greater than 2GB

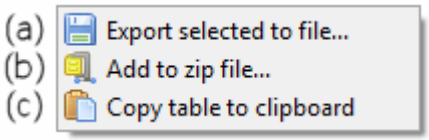
Use the *File Size Spread* display (from the Details menu) for a more detailed look at the distribution of files by size.



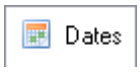
File Size	#	As %	Size	As %
<=1K	498	17%	270.35K	<1%
1K < x <=1MB	2466	83%	36.19MB	38%
1MB < x <=10MB	24	<1%	58.98MB	62%
10MB < x <=50MB	0	0%	0 bytes	0%
50MB < x <=100MB	0	0%	0 bytes	0%
100MB < x <=150MB	0	0%	0 bytes	0%
150MB < x <=200MB	0	0%	0 bytes	0%
200MB < x <=250MB	0	0%	0 bytes	0%
250MB < x <=500MB	0	0%	0 bytes	0%
500MB < x <=1GB	0	0%	0 bytes	0%
1GB < x <=2GB	0	0%	0 bytes	0%
>2GB	0	0%	0 bytes	0%

Double click on any row to see a list of all files within the selected range.

Click the right mouse button to open a popup menu which has the following options:



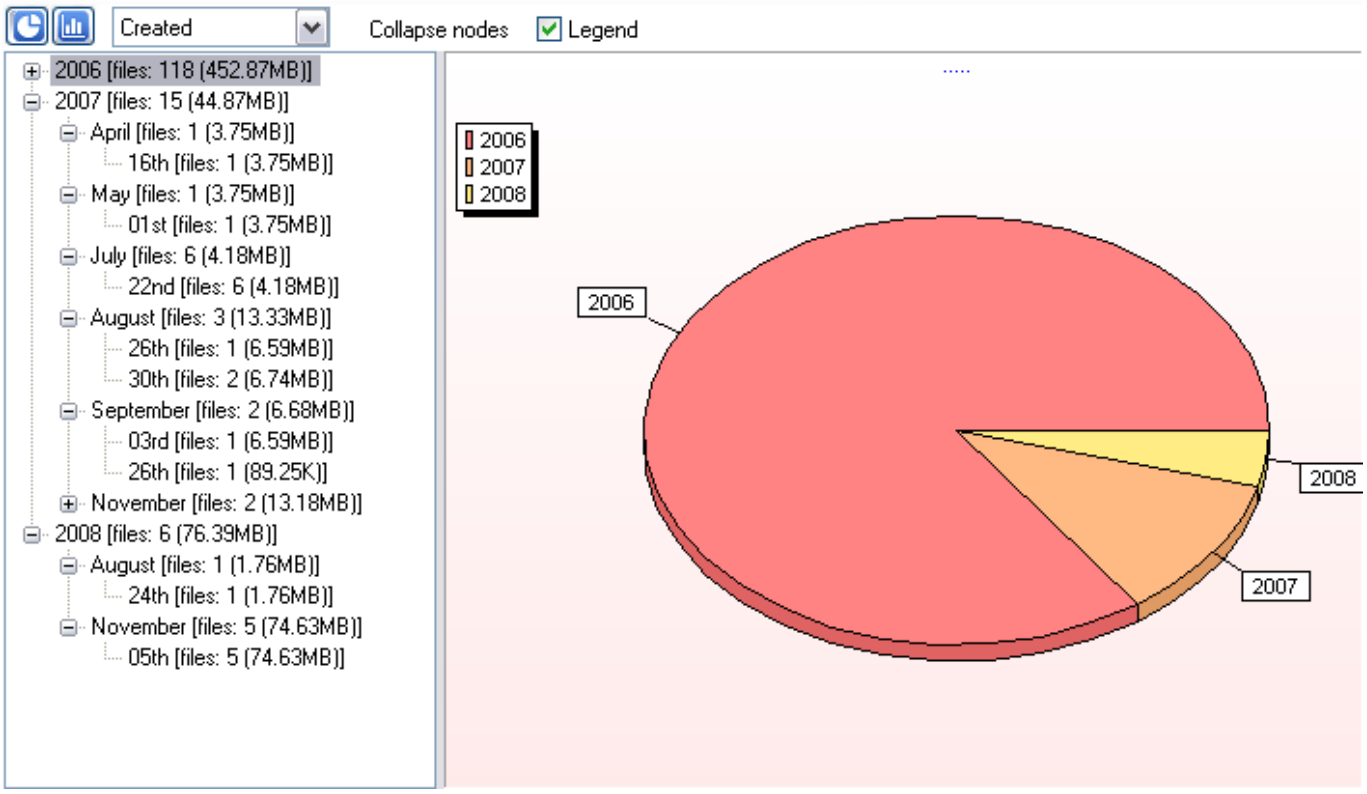
(a) Export the contents of the table to a text file.
(b) Add all of the files from the selected size range to a zip (compressed) file.
(c) Copy the entire table, in text format, to the clipboard.



File Dates Tab

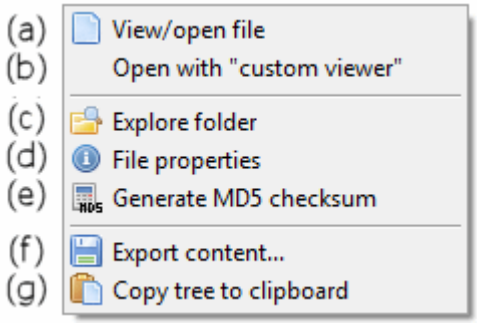
The displays on this tab show the distribution of files by year, month and date. It shows the number of files (and size of those files) that belong to each day, month and year.

The "tree view" is shown here without file names listed beneath each date; this feature can be enabled in *Settings*.



Display according to created, last accessed or last modified date.

The table has a popup menu (available by clicking the right mouse button) that has the following options:

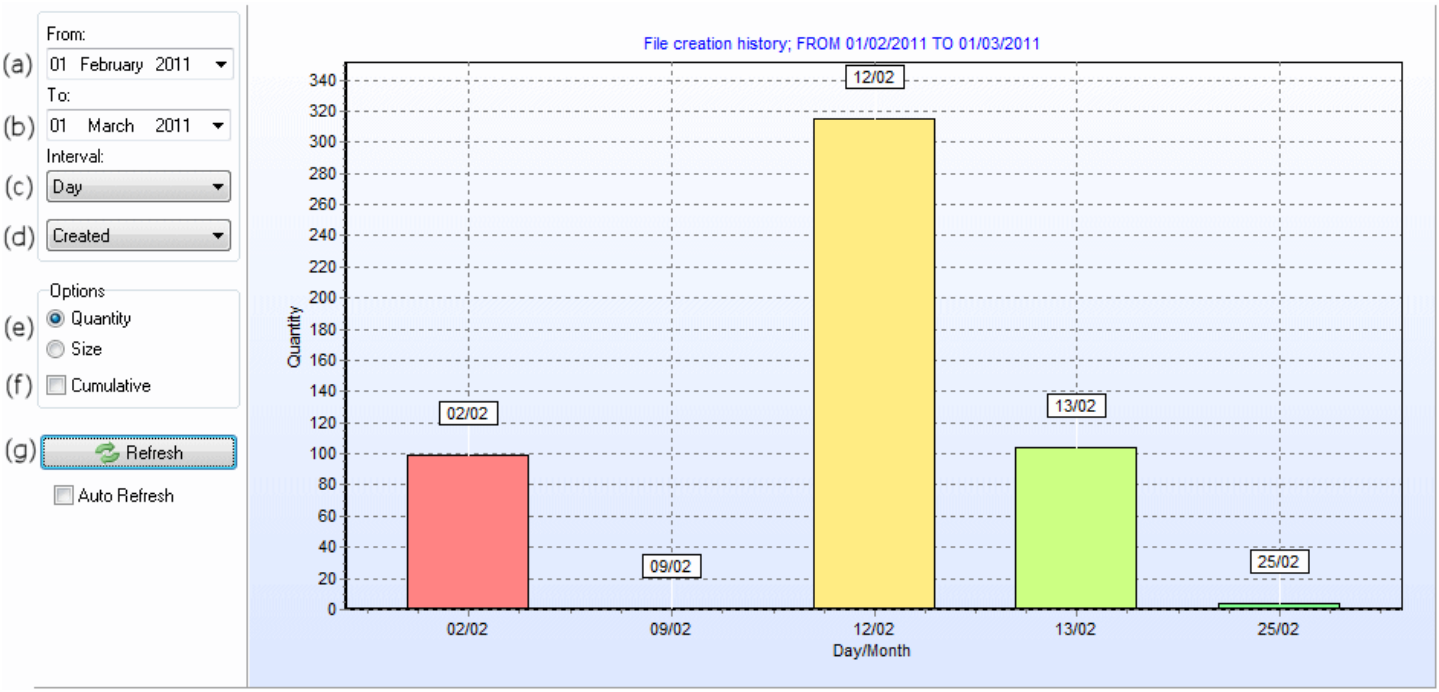


a) Open the selected file with the Windows' default viewer.
b) Open the selected file with the "custom viewer" as specified in Settings.
c) Open the folder of the selected file in Explorer.
d) Show the Windows File Properties dialog for the selected file.
e) Generate and MD5 checksum for the selected file.
f) Export the entire contents of the "tree" to a text file.
g) Copy the contents of the “tree” to the clipboard.

History Tab

Not to be confused with *File History*. Xinorbis uses the created, last modified and last accessed dates of each file to create trends of file usage.

The graph below is showing the quantity of files created over a period of one month (1st February 2011 to 1st March 2011). Over that period files were only created on five of those days, 100 on the 2nd February, 1 on the 9th February etc.



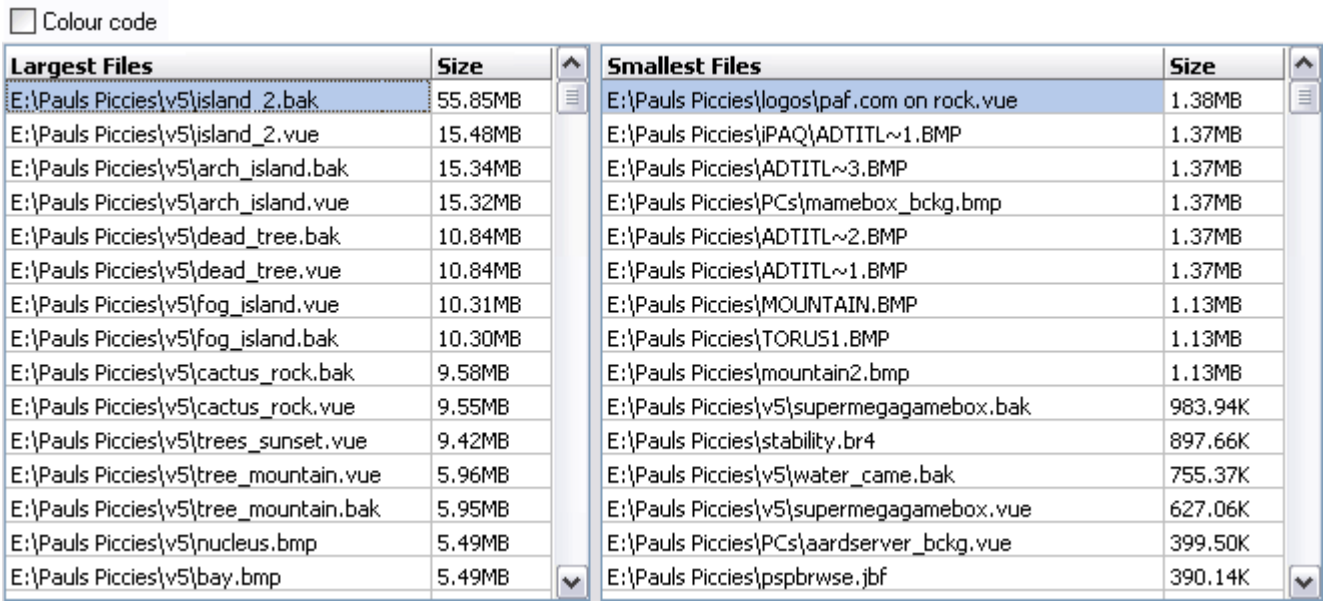
The graph shows the number, or size, of files created within the selected date range.

a) Select the start of date range you wish to see
b) Select the end of date range you wish to see
c) Select the interval for the data: day, week, month, year or hour
d) Show based on created, modified or accessed dates.
e) Show the number of files created or the size of the files
f) Cumulative graph, each bar is equivalent to its value plus all previous values.
g) Rebuild the graph.

When the interval (c) is set to Hour the display shows the rate of usage over each hour of a *single* 24 hour period, not for *each* hour between the two selected dates!

Top 101 Tab

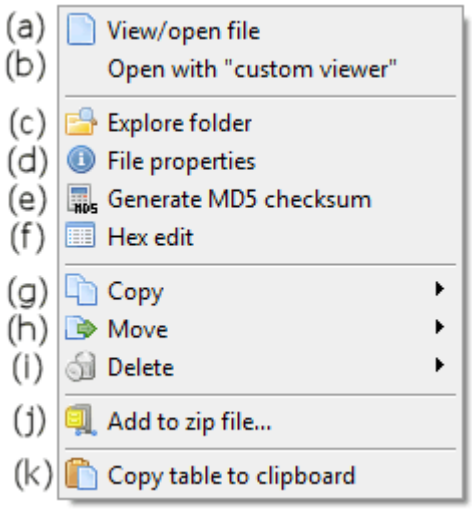
The Top 101 tab shows the top 101 largest and smallest files and the top 101 files listed by created, last modified and last accessed date.



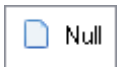
Largest Files	Size
E:\Pauls Piccies\v5\island_2.bak	55.85MB
E:\Pauls Piccies\v5\island_2.vue	15.48MB
E:\Pauls Piccies\v5\arch_island.bak	15.34MB
E:\Pauls Piccies\v5\arch_island.vue	15.32MB
E:\Pauls Piccies\v5\dead_tree.bak	10.84MB
E:\Pauls Piccies\v5\dead_tree.vue	10.84MB
E:\Pauls Piccies\v5\fog_island.vue	10.31MB
E:\Pauls Piccies\v5\fog_island.bak	10.30MB
E:\Pauls Piccies\v5\cactus_rock.bak	9.58MB
E:\Pauls Piccies\v5\cactus_rock.vue	9.55MB
E:\Pauls Piccies\v5\trees_sunset.vue	9.42MB
E:\Pauls Piccies\v5\tree_mountain.vue	5.96MB
E:\Pauls Piccies\v5\tree_mountain.bak	5.95MB
E:\Pauls Piccies\v5\nucleus.bmp	5.49MB
E:\Pauls Piccies\v5\bay.bmp	5.49MB

Smallest Files	Size
E:\Pauls Piccies\logos\paf.com on rock.vue	1.38MB
E:\Pauls Piccies\iPAQ\ADTITL~1.BMP	1.37MB
E:\Pauls Piccies\ADTITL~3.BMP	1.37MB
E:\Pauls Piccies\PCs\mamebox_bckg.bmp	1.37MB
E:\Pauls Piccies\ADTITL~2.BMP	1.37MB
E:\Pauls Piccies\ADTITL~1.BMP	1.37MB
E:\Pauls Piccies\MOUNTAIN.BMP	1.13MB
E:\Pauls Piccies\TORUS1.BMP	1.13MB
E:\Pauls Piccies\mountain2.bmp	1.13MB
E:\Pauls Piccies\v5\supermegagamebox.bak	983.94K
E:\Pauls Piccies\stability.br4	897.66K
E:\Pauls Piccies\v5\water_came.bak	755.37K
E:\Pauls Piccies\v5\supermegagamebox.vue	627.06K
E:\Pauls Piccies\PCs\aardserver_bckg.vue	399.50K
E:\Pauls Piccies\pspbrwse.jbf	390.14K

Clicking the right mouse button on a selected entry in the table will bring up the following menu:



a) Open the selected file with the Windows' default viewer.
b) Open the selected file with the "custom viewer" as specified in Settings.
c) Open the folder of the selected file in Explorer.
d) Show the Windows File Properties dialog for the selected file.
e) Generate and MD5 checksum for the selected file.
f) Open the file in the default hex editor.
g) Copy the selected file OR all of the files from the selected table to another location.
h) Move the selected file OR all of the files from the selected table to another location.
i) Delete the selected file OR all of the files from the selected table to the Recycle Bin.
j) Add all of the files from the selected table to a zip (compressed) file.
k) Copy the table, as text, to the clipboard.



Null Files and Folders Tab

Shows empty files (those with zero size) and empty folders (those that contain no other files or folders).

Null files

E:\Webpages\AD2K06\wonderspoon\history.dat
E:\Webpages\freshney.org\phpBB\config.php
E:\Webpages\freshney.org\phpBB\language\en\mods\index.htm
E:\Webpages\freshney.org\phpBB\styles\prosilver\imageset\en\index.htm
E:\Webpages\freshney.org\phpBB\styles\prosilver\imageset\index.htm
E:\Webpages\freshney.org\phpBB\styles\prosilver\template\index.htm
E:\Webpages\freshney.org\phpBB\styles\prosilver\theme\images\index.htm
E:\Webpages\freshney.org\phpBB\styles\prosilver\theme\index.htm

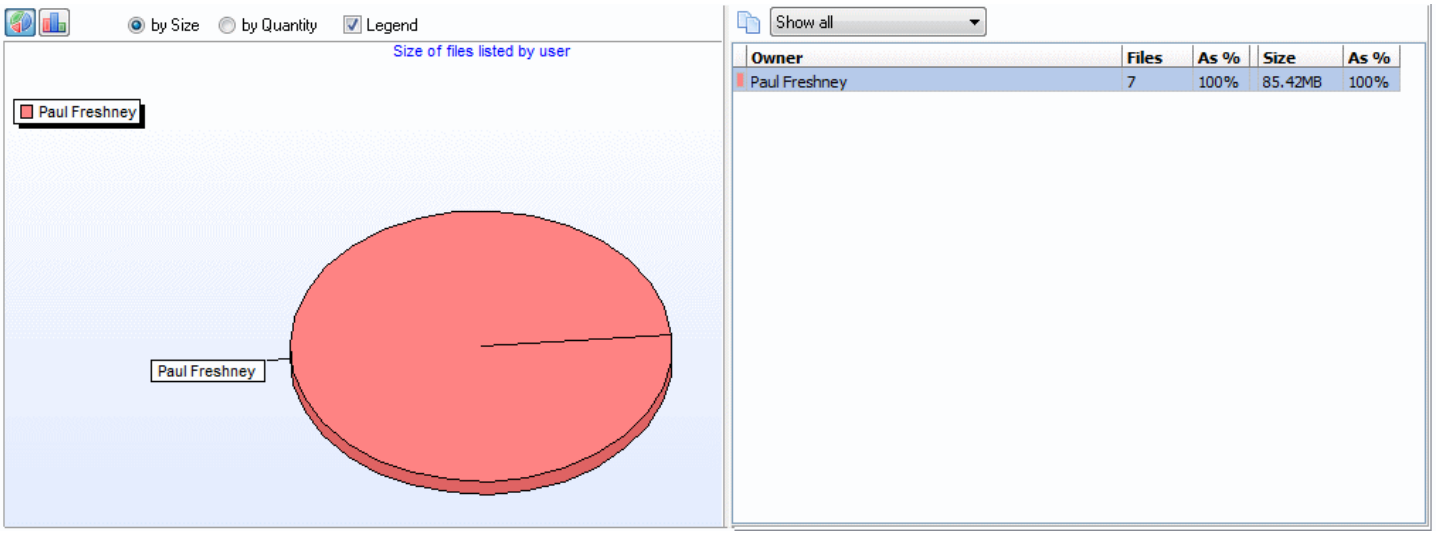
Empty folders

E:\Webpages\AD2k02 _ xx\family\
E:\Webpages\AD2k02 _ xx\pugnax\
E:\Webpages\AD2k02 _ xx\zeemcpu\images\
E:\Webpages\AD2K06\cerberus\New Folder\
E:\Webpages\AD2K06\ogel\
E:\Webpages\AD2K06\VT\New Folder\
E:\Webpages\freshney.org\c4g\images\
E:\Webpages\freshney.org\xinorbiscom\images\

Double-click any folder to open it within Windows Explorer.

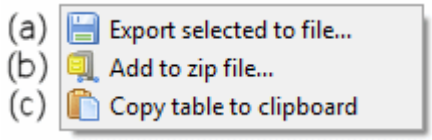
Users Tab

The users tab displays all the users that were identified during the scan along with the amount of files that "belong" to them and the space those files are taking up.



Double-click within the list on the right to see all the files belonging to the selected user, in the *Search View*.

Right-click on the table to open a pop-up menu with some extra functions:



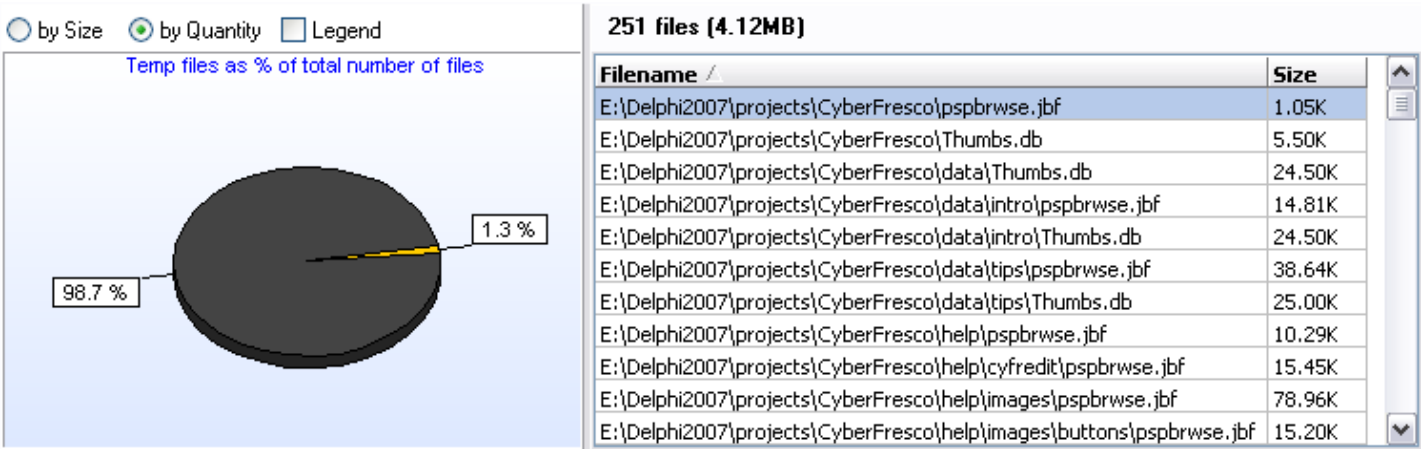
a) Export all of the file details belonging to the selected user to a CSV file.

b) Add all of the files belonging to the selected user to a zip (compressed) file.

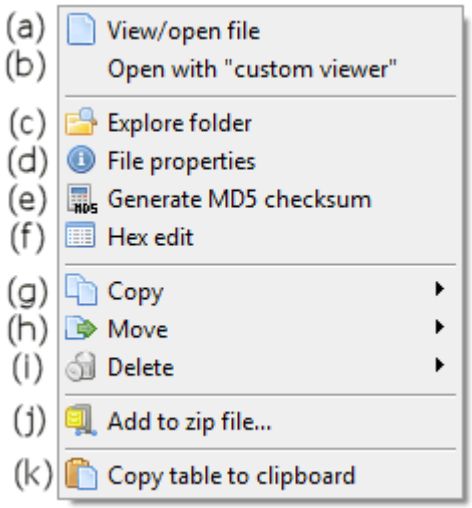
c) Copy the table, as text, to the clipboard.

Temporary Files Tab

The temp tab shows all of the files that have been identified as temp (from Settings).



Right mouse button on a selected file in the table to bring up the following menu:

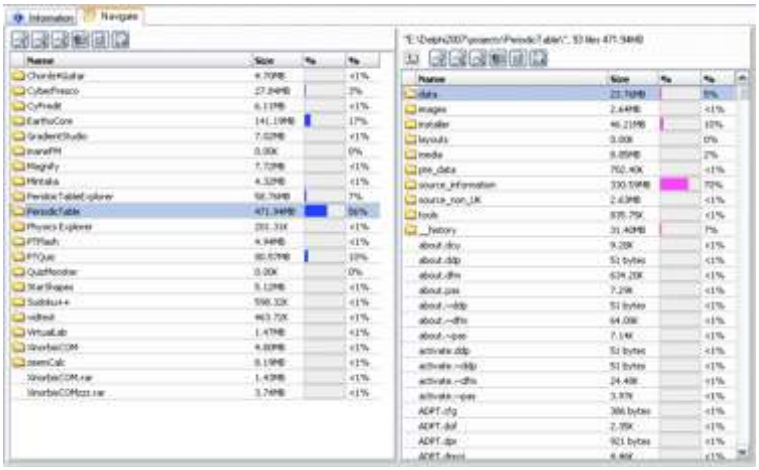


a) Open the selected file with the Windows' default viewer.
b) Open the selected file with the "custom viewer" as specified in Settings.
c) Open the folder of the selected file in Explorer.
d) Show the Windows File Properties dialog for the selected file.
e) Generate and MD5 checksum for the selected file.
f) Open the file in the default hex editor.
g) Copy the selected file OR all of the files from the selected table to another location.
h) Move the selected file OR all of the files from the selected table to another location.
i) Delete the selected file OR all of the files from the selected table to the Recycle Bin.
j) Add all of the files from the selected table to a zip (compressed) file.
k) Copy the table, as text, to the clipboard.

Folder Structure

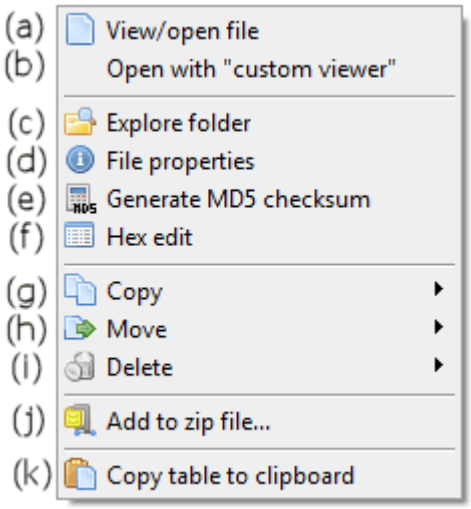
Easily navigate the files and folders of the current scan.

The navigation tab is split in to two sections. Double-clicking on a folder on the left hand side will show all of the files and folders belonging to it in the right hand side.



a) Toggle the "created date" column
b) Toggle the "accessed date" column
c) Toggle the "modified date" column
d) Toggle the file owner column
e) Toggle the file attributes column
f) Toggle the "size on disk" column
g) Colour codes each file (not folders)

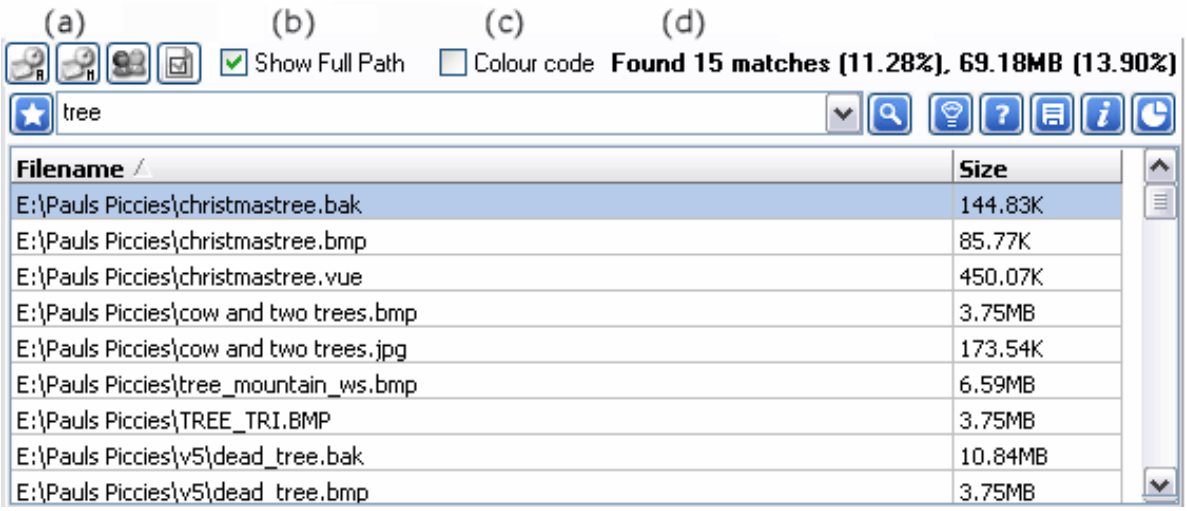
Right mouse button on a selected file or folder in the table to bring up the following menu:



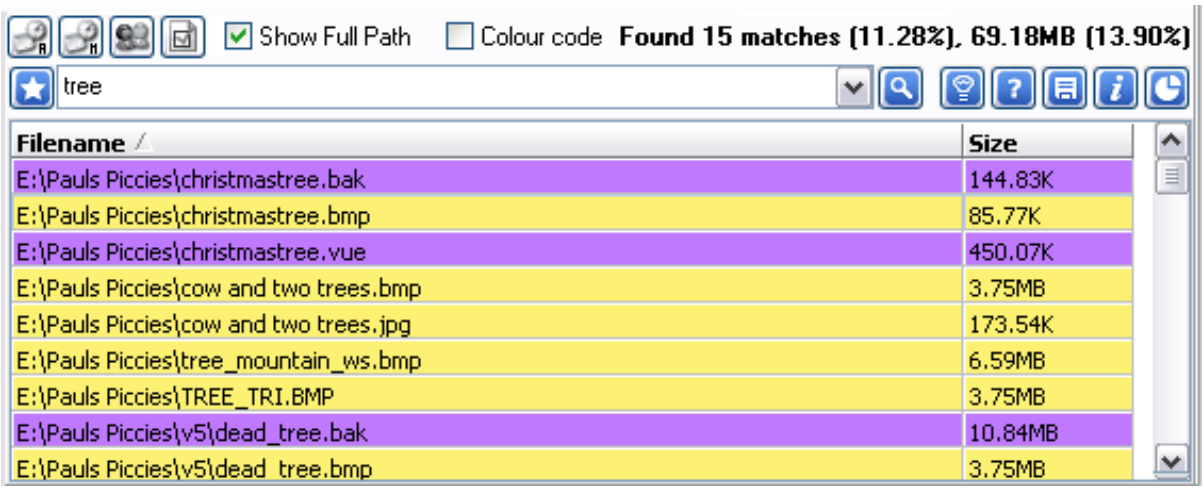
a) Open the selected file with the Windows' default viewer.
b) Open the selected file with the "custom viewer" as specified in Settings.
c) Open the folder of the selected file in Explorer.
d) Show the Windows File Properties dialog for the selected file.
e) Generate and MD5 checksum for the selected file.
f) Open the file in the default hex editor.
g) Copy the selected file OR all of the files from the selected table to another location.
h) Move the selected file OR all of the files from the selected table to another location.
i) Delete the selected file OR all of the files from the selected table to the Recycle Bin.
j) Add all of the files from the selected table to a zip (compressed) file.
k) Copy the table, as text, to the clipboard.

Select multiple rows by selecting with `CLICK+CTRL` or `CLICK+SHIFT`.

Search



a) Toggle accessed date, modified date, owner and attributes respectively.
b) Show the full file path in the search results (shown) or just the file name.
c) Colour-code each entry in the table according to the type (category) of file (shown below).
d) Information on search results.



Using the default colours, this table shows that the search results are made up of files belonging to the "graphics" (yellow) and "uncategorised" (purple) categories.

Click to access many default searches, and quick access to category and attribute specific searches. The quick search menu can be customised, see the "Information for Advanced Users" section towards the end of this manual.

Execute the search.

Open the search documentation.

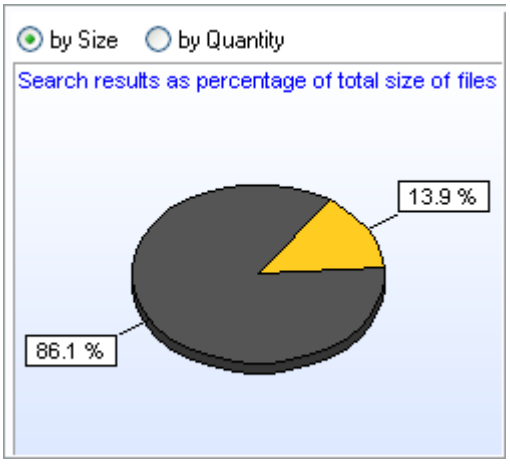
Open the floating search syntax window (F3).

Save the search results as a text file or CSV file.

Show information for the selected file or folder.

Toggle the chart display.

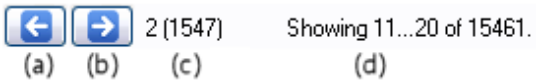
The search chart shows the current search results in the context of the current scan.



It can show either; the size of the search results as a percentage of the size of the whole of the last scan or the number of files in the search results as a percentage of the total files scanned.

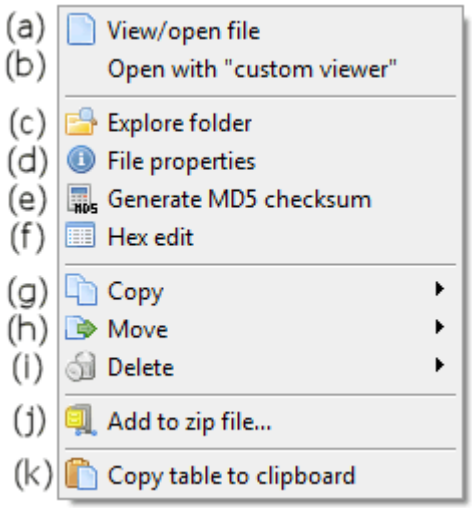
The search results are shown in yellow, with the grey portion of the chart representing the rest of the scanned files (ie those files not in the search results).

When the number of matching search hits is greater than the maximum number of hits that can be displayed at one time then the following toolbar will appear at the bottom of the search tab:



a) Previous page of results
b) Next page of results
c) Current page (total pages)
d) The results currently being displayed

Clicking the right mouse button on a selected entry in the table will bring up the following menu:



a) Open the selected file with the Windows' default viewer.
b) Open the selected file with the "custom viewer" as specified in Settings.
c) Open the folder of the selected file in Explorer.
d) Show the Windows File Properties dialog for the selected file.
e) Generate and MD5 checksum for the selected file.
f) Open the file in the default hex editor.
g) Copy the selected file OR all of the files from the selected table to another location.
h) Move the selected file OR all of the files from the selected table to another location.
i) Delete the selected file OR all of the files from the selected table to the Recycle Bin.
j) Add all of the files from the selected table to a zip (compressed) file.
k) Copy the table, as text, to the clipboard.

Folder History

When enabled, the Folder History feature of Xinorbis allows you to track the changes of drives and folders on your PC or network.

Every time a folder, drive or network share is scanned the details of every file and folder are recorded so that they can be referenced again and compared against the same location on other dates and times.

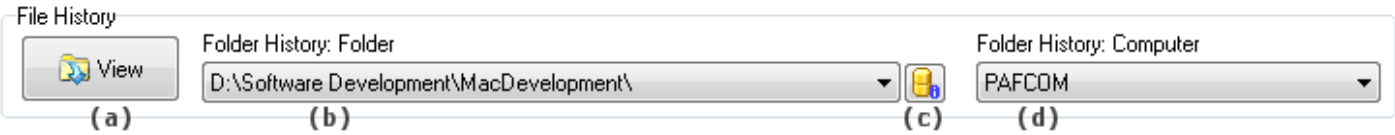
For each scan Xinorbis stores: Number of files, number of folders, combined size of files, magnitude details and the quantity / size of each of the fifteen categories (programs, graphics etc.).

Xinorbis stores the properties of every file that's scanned so that a detailed analysis of the folder or drive is possible.

When Xinorbis is updating the Folder History database (after a scan) the colour of the Folder History link on the left hand side will change to green. When Xinorbis has finished updating the colour will change back to black.

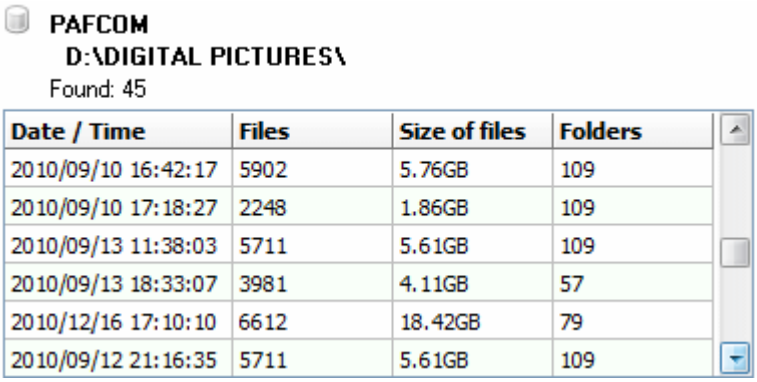
When Folder History is updating it will not be possible to refresh the *Dates*, *History* or *Top 101* tabs in the *Folder Properties* section. This is because doing so could cause corruption to the Folder History database.

The File History Tab is controlled by the File History controls at the top of the display:



(b) shows the currently selected folder, all the following tabs work with it. To work with a different folder; select the Computer where the folder is located with (d), select the folder from the drop down list (b) and press (a) to select. Press (c) to see a list of scans (and basic information) for the selected computer and folder [(b) and (d)].

Clicking on (c) will open the following window showing details of scans performed on the selected Folder History folder (b):



PAFCOM
D:\DIGITAL PICTURES
Found: 45

Date / Time	Files	Size of files	Folders
2010/09/10 16:42:17	5902	5.76GB	109
2010/09/10 17:18:27	2248	1.86GB	109
2010/09/13 11:38:03	5711	5.61GB	109
2010/09/13 18:33:07	3981	4.11GB	57
2010/12/16 17:10:10	6612	18.42GB	79
2010/09/12 21:16:35	5711	5.61GB	109

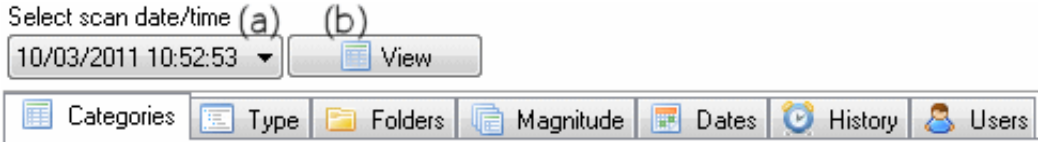
For each scan the following details are shown:

Time and date of the scan
The number of files found
The total size of the files within the folder
The number of folders found

Folder Properties

Everything under the Folder Properties tab works on the date and time selected from (a) below.

The information tab is similar to the "main" Folder Properties screen. The **Table**, **Type**, **Folders**, **Magnitude**, **Dates** and Users displays work exactly the same as those on the main information tab.



a) A list of scans, listed by date/time; yyyy/mm/dd hh:mm:ss.
b) Click to populate the information tabs with data from the selected scan in (a).

Export selected data to either XML, HTML or CSV from the Folder History Report menu on the left of the Xinorbis window.

Chart

Use the chart to compare the size or quantity of files at any of the scan dates for the selected folder.

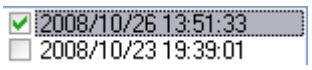
At the top of the Chart section is a toolbar that is used to customise the chart's content.

From top to bottom:

Show by the quantity or size of the files belonging to each category.

The magnitude buttons have the same effect as the equivalent Files buttons, in that they show the size and quantity of files displayed according to the magnitude of the file's size.

The top ten orange buttons toggle the relevant categories from the chart display and the bottom ten orange buttons toggle the custom categories.



Below the above toolbar is a list of available scan dates with times. Clicking an entry will show the number of files, folders and total size for that scan in the area below the toolbar. Selecting the entry (tick the check box on the left) will add that scan's data to the chart.

Table

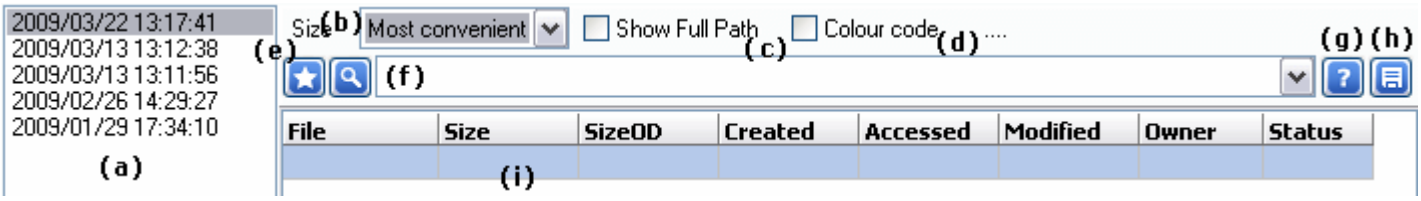
The Table view shows all of the scan data that is available for the selected folder.

Date	Files	delta	Folders	delta	Total size	delta	Used space	delta
2008/10/26 13:51:33	3765	0	88	0	2.28GB	0	2.29GB	0
2008/10/23 19:39:01	3765	0	87	-1	2.28GB	0	2.29GB	0

The delta column represents the difference between the row and the current (the top) data.

File History Search

Use the File History Search to search through the contents of the selected folder at any previous scan date/time. See the Search Syntax section later in this manual for more details.

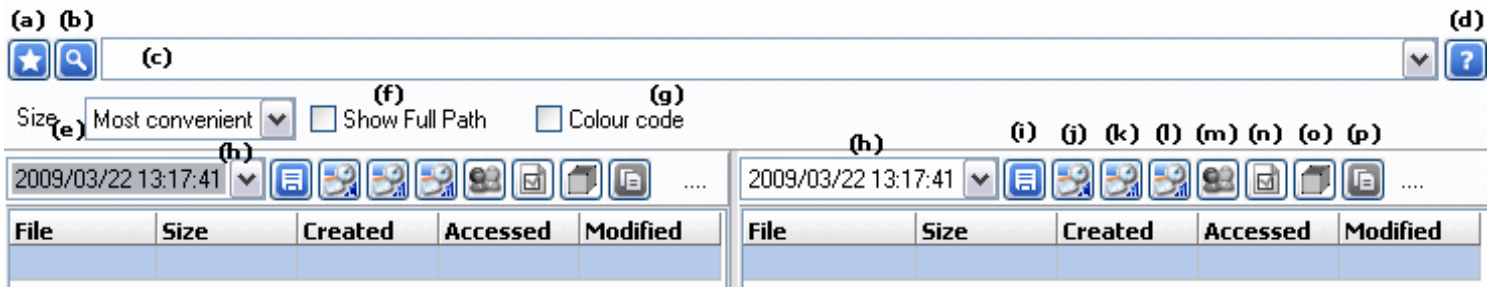


Press or press enter [when the cursor is in (f)] to run the search.

a) A list of scans to search, listed by date/time, yyyy/mm/dd hh:mm:ss.
b) Select how the file size should be displayed, most convenient, all in kilobytes or as bytes.
c) Show the full file path for the file or just the name and extension.
d) Colour code the files, the colour represents the category that the file belongs to.
e) Click for a list of predefined searches.
f) Type the search command in here.
g) Click for more information on the search commands.
h) Save the search results.
i) Search results go here.

File History Compare

Use the File History Compare tab to compare the contents of a folder at two specific dates/times, it will show the search results for any two scan dates (selected via (b) and (h) below).



a) Select from a set of predefined searches.
b) Run the search.
c) Enter the search commands in here, see here for more information.
d) Open the floating search command syntax window.
e) Select from three different file size formats.
f) Toggle the full path of the file, when unselected only the file name will be shown.
g) Colour the files according to the category they belong to.
h) Select which scan (date and time) to search.

i) Save the search results.
j) Toggle the "created date" column.
k) Toggle the "accessed date" column.
l) Toggle the "modified date" column.
m) Toggle the "user name" column.
n) Toggle the "file attributes" column.
o) Toggle the "size on disk" column.
p) Highlights the items on the selected side that aren't present on the other side.

Search Syntax

To access a comprehensive HTML-based search syntax reference from within Xinorbis press F5.

Xinorbis has a powerful search system that allows for detailed filtering of all the files from the previous scan (as well as the *File History*).

Xinorbis fully supports SQL searching from *File History* and *File History Compare*. See the section at the end of this search section for more information.

The search commands are not case sensitive: `(size>100k)` is the same as `(SiZe>100K)`. The order in which the commands are entered won't make a difference to the search results.

Searching by file name

A simple "or" search, to find files with the words `city` or `java` in the path:

```
city java
```

A simple "and" search, find files with the words `city` *and* `java` in the path:

```
"city java"
```

Combining and with or, find files that contain `city` *and* `java` or `aardvark` in the path:

```
"city java" aardvark
```

The above examples will look for the specified fragment(s) anywhere within the file name and path of the file, the following examples allow for more targeted searches.

Let's say we want to find all sound files that start with `cat`:

```
cat* #snd
```

Or we want to find all MP3s that end in `dog`:

```
*dog.mp3
```

Use of the `*` wildcard restricts the search to file names.

Searching by length of the file name or path

To search for files where the name (including extension) is a specific length:

```
(filenamelength=x) where x is the length required (in characters)
```

To search for files where the name (including extension) is equal to or greater than a specific length:

```
(filenamelength>x) where x is the length required (in characters)
```

To search for files where the name (including extension) is less than or equal to a specific length:

```
(filenamelength<x) where x is the length required (in characters)
```

To search for files where the whole path (including extension) is a specific length:

```
(filepathlength=x) where x is the length required (in characters)
```

To search for files where the whole path (including extension) is equal to or greater than a specific length:

`(filepathlength>x) where x is the length required (in characters)`

To search for files where the whole path (including extension) is less than or equal to a specific length:

`(filepathlength<x) where x is the length required (in characters)`

Searching by file size

Limit the search results to files with sizes `less than or equal to 100k`:

`(size<100k)`

Limit the search results to files with sizes `exactly equal to 100k`:

`(size=100k)`

Limit the search results to files with sizes `greater than or equal to 100k`:

`(size>100k)`

Limit the search results to a specific range of sizes, `less than or equal to 100k` *and* `less than 1 megabyte`:

`(size>100k)(size<1mb)`

When using the "`size>`" or "`size<`" functions you have four options for units:

`(size>500)` *blank*, interpreted as bytes
`(size>500k)` `k` or `kb`, interpreted as kilobytes
`(size>1mb)` `m` or `mb`, interpreted as megabytes
`(size>1gb)` `g` or `gb`, interpreted as gigabytes

Searching by date

Each of the date search functions can be used with the following date formats:

dd/mm/yyyy, **yyyy/mm/dd** or **yyyymmdd**

If Date Format (configurable in *Settings*) is set to `mm/dd/yyyy` (US format) then Xinorbis will accept dates in `mm/dd/yyyy` format *instead* of `dd/mm/yyyy`.

For files with `created dates greater than` *or* `equal to 30/10/2005`:

`(date>30/10/2005)`

For files with `created dates earlier than` or `equal to 30/10/2005`:

`(date<30/10/2005)`

For files with `created dates` of `30/10/2005` only:

`(date=30/10/2005)`

Replace **date** with:

`mdate` to filter by last modified date
`adate` to filter by last accessed date.

Replace an actual date with...

`!x` where *x* is the number of days before the current (today's) date.

`$x` where *x* is the number of weeks before the current (today's) date.

`(date>!5)` for files created in the last five days.

`(adate>$2)` for files accessed in the last 2 months.

...to search relative to today.

Searching by time

All times are in 24 hour format, **HHMM**, where HH is 00-23 and MM is 00-59. The seconds part of the time is discarded.

For files created after or at 5:30pm:

(time>1730)

For files created early than or at 9am:

(time<0900)

For files created at exactly 2:30pm:

(time=1430)

Replace **time** with:
`mtime` to filter by last modified time
`atime` to filter by last accessed time

Searching by category

Add the following keywords to filter your results by Xinorbis category:

`#PROGRAM or #PROG`	Program files
`#SYS or #SYSTEM`	System files
`#GRAPHICS or #GFX`	Graphics, photos and other images
`#MOVIE`	Movie, video or other animations
`#SND or #SOUND`	Sounds and music
`#OFFICE or #OFF`	Documents, diagrams, spreadsheets etc.
`#CODE or #COD`	Programming and development related files
`#COMPRESSED or #COM`	Compressed files and other archives
`#OTHER`	Files that don't fit in the other categories
`#C1 to #C10`	User definable categories.

Combine multiple keywords for more powerful searches:

```
#SYSTEM #COMPRESSED
```

Will return SYSTEM and COMPRESSED files.

Add a – (minus) to the end to exclude files from that category from the results:

```
#SYSTEM-
```

The above will exclude `system files` from the search.

The Xinorbis categories come populated with a selection of file types but these can be expanded on by adding new ones through **Settings** or the **Extensions Tab**.

Searching by file attribute

It is possible to filter by various file attributes:

`@HIDDEN`	search only hidden files.
`@SYSTEM`	search only system files.
`@ARCHIVE`	search only files with the archive file attribute
`@NULL`	search only files that have null (zero) size
`@READONLY`	search only files that are read-only
`@CREATED`	search only files that were created today
`@ACCESSED`	search only files that have been accessed today
`@MODIFIED`	search only files that have been modified today
`@FILE`	search only files (will ignore folders)
`@FOLDER`	search only items that are folders

Add a – (minus) to the end to exclude files with that attribute from the search results:

```
@HIDDEN-
```

The above will exclude `hidden files` from the search.

Searching by user (owner)

The user name search is not case-sensitive.

Filter your search results by the owner (creator) of the file:

```
(user=paul alan freshney)
```

Filter results to include files that aren't owned by a specific user:

```
(user!=paul alan freshney)
```

Filter results to include files that are owned by a user whose name contains specific text:

```
(user~paul)
```

Filter results to include files that are NOT owned by a user whose name contains specific text:

```
(user!~paul)
```

If multiple "owner" parameters are specified then files matching *either* are returned (a file cannot be owned by multiple users):

```
(user=Rutherford) (user=Freeman)
```

will return files owned by `Rutherford` *or* `Freeman`.

File History Specific Functions

List the top files by size (similar to the Top 101 display)

Show the top largest files (the top 20 is displayed below):

```
(top=20)
```

Like all search parameters it can be combined, shown below is a method of showing the top 20 graphic files:

```
(top=20) #GFX
```

List the bottom files by size (similar to the Top 101 display)

Show the smallest files (the bottom 10 is shown below):

```
(bot=10)
```

List the top files by created date:

Show a number of the largest files by creation date:

```
(ctop=20)
```

List the top files by accessed date:

Show a number of the largest files by last accessed date:

```
(atop=10)
```

List the top files by modified date:

Show a number of the largest files by last modified date:

```
(mtop=10)
```

Using SQL in searches

Any valid SQL query can be used in the *File History Search* and *File History Compare* sections of Xinorbis. Only `SELECT` statements are valid though! Each table of the database contains the contents of a single scan (folder/drive) at a single date and time.

It is very important that all user defined SQL queries start with:

```
SELECT * FROM $x$ WHERE ...
```

Xinorbis will fill in the correct table name and field list based on context. If you wish to use another table then feel free to use that instead but please use * to retrieve all fields.

By default the last option of the Quick Search menu contains an option to “Set last SQL” that will show the last search query in native SQL format (not just those searches originally entered in SQL).

Combining Search Functions

It's possible to combine two or more search functions together to create very powerful searches.

Find all the graphics files that contain the words **bank** and **2000** in the path:

```
"bank 2000" #GFX
```

Find for all graphics files greater than or equal to 100k that have the words bank and 2000 in the path:

```
"bank 2000" #GFX (size>100k)
```

Find all system files created today:

```
#SYSTEM @CREATED
```

Find all of the graphics files created by *me* that are over 1MB in size:

```
#GFX (user=paul alan freshney) (size>1MB)
```

Find all files created today that contain the text fish:

```
@CREATED fish
```

Find all system files greater than 5MB in size that were created today:

```
@CREATED #SYS (size>5MB)
```

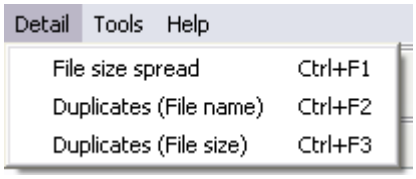
Find all audio and movie files created today and owned by me:

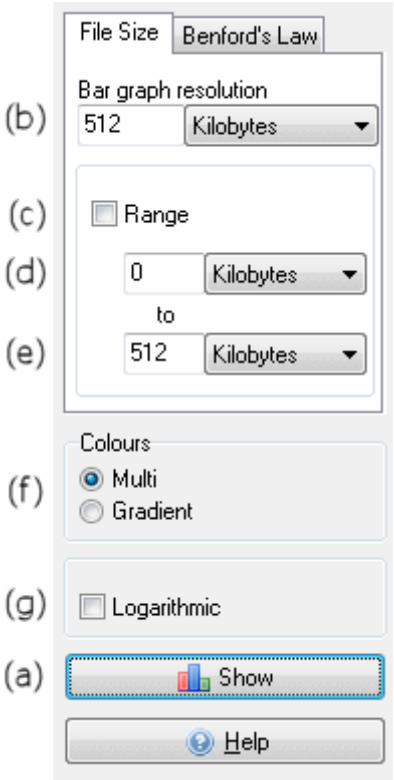
```
#SOUND #MOVIE @CREATED (user=paul alan freshney)
```

”Advanced” Panel

File Size Spread

The File Size Spread display is a more powerful version of the magnitude display.



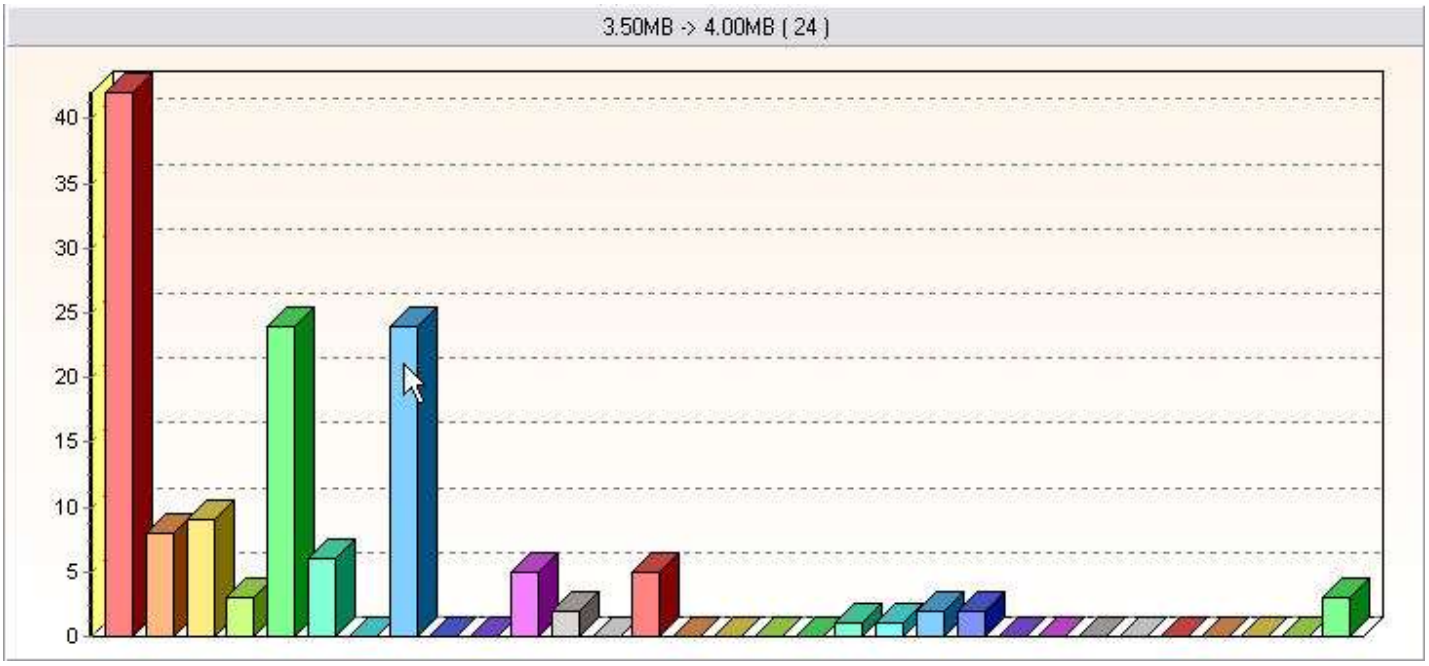


a) Build the graph.
b) Select the resolution of the graph. Small numbers make for more detailed graphs but at the expense of build time and memory usage. The default is 512K so they first bar of the graph will show the number of files between 0 bytes up to (but not including) 512k, the second bar for files of 512k up to (1MB and so on in intervals of 512K. *
c) Build the graph from only a selected range of file sizes form (d) to (e) inclusive.
d) Start size for the range.
e) End size for the range.
f) Use a multi-coloured graph or colour based on y-axis value (darker colour for larger values).
g) Use a logarithmic Y-axis.

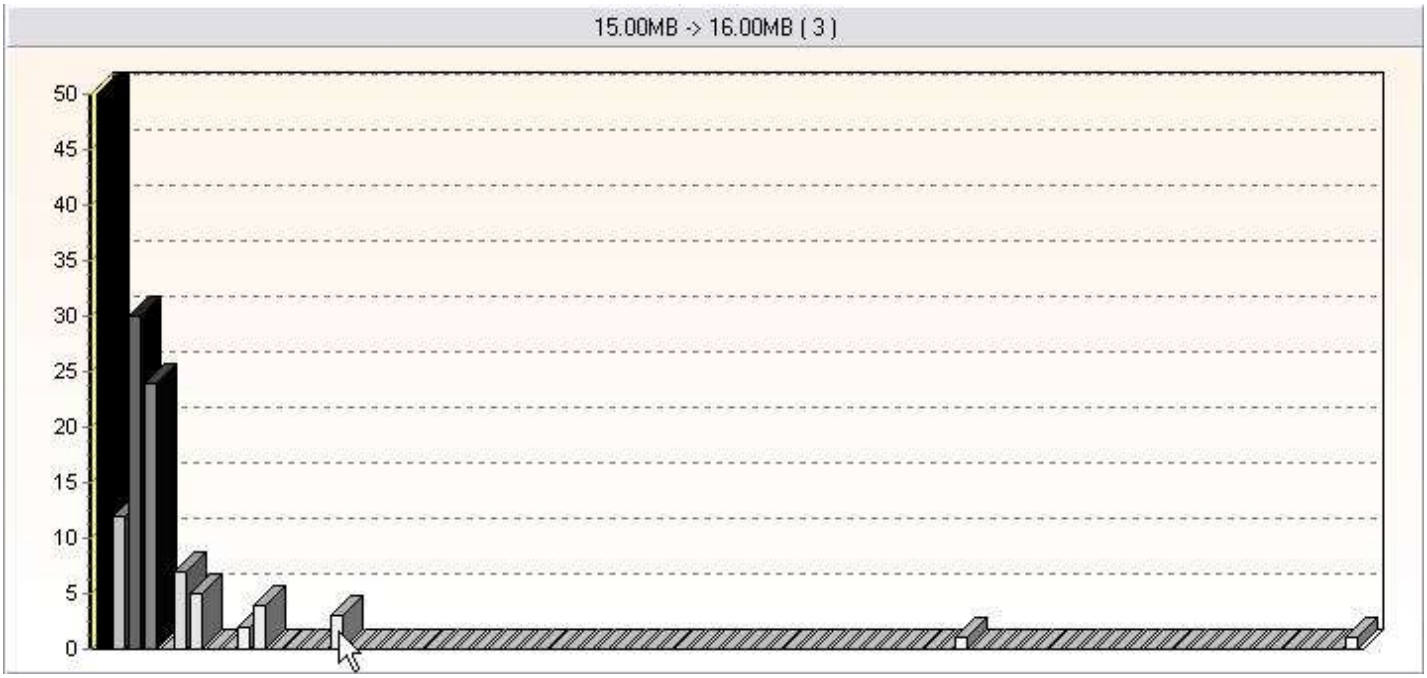
* smaller intervals will result in longer refresh times.

In the example below the "multi" colour mode is shown. There is too much information to show on the X-axis so the information is available by moving the mouse over a bar. In this example the mouse is located over the "blue" bar towards the left side, the top part of the example shows that this bar represents files of 3.50MB up to (but not including) 4.00MB of which there are 24.

The interval in this example is 0.5MB or 512KB. Each bar represents a spread of this amount.



In the example below the "gradient" colour mode is shown. The mouse is located over the bar that represents files of 15MB up to (but not including) 16MB of which there are 3.



Benford's Law

Benford's Law describes how the distribution of a set of numbers should vary with the leading digit of each number.

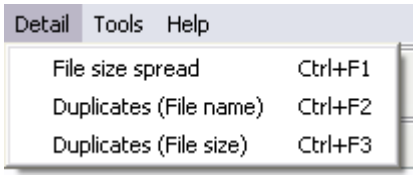
Numbers beginning with '1' should be around 30.1%, '2' 17.61%, '3' 12.49%, '4' 9.69%, '5' 7.92%, '6' 6.69%, '7' 5.80%, '8' 5.12% and those beginning with '9' would only be expected to account for 4.58% of the total.

The Benford's Law display will show you the distribution of the file sizes according to this law.

For more information on Benford's Law see this great website: `http://testingbenfordslaw.com/`

Duplicate Files (by Size)

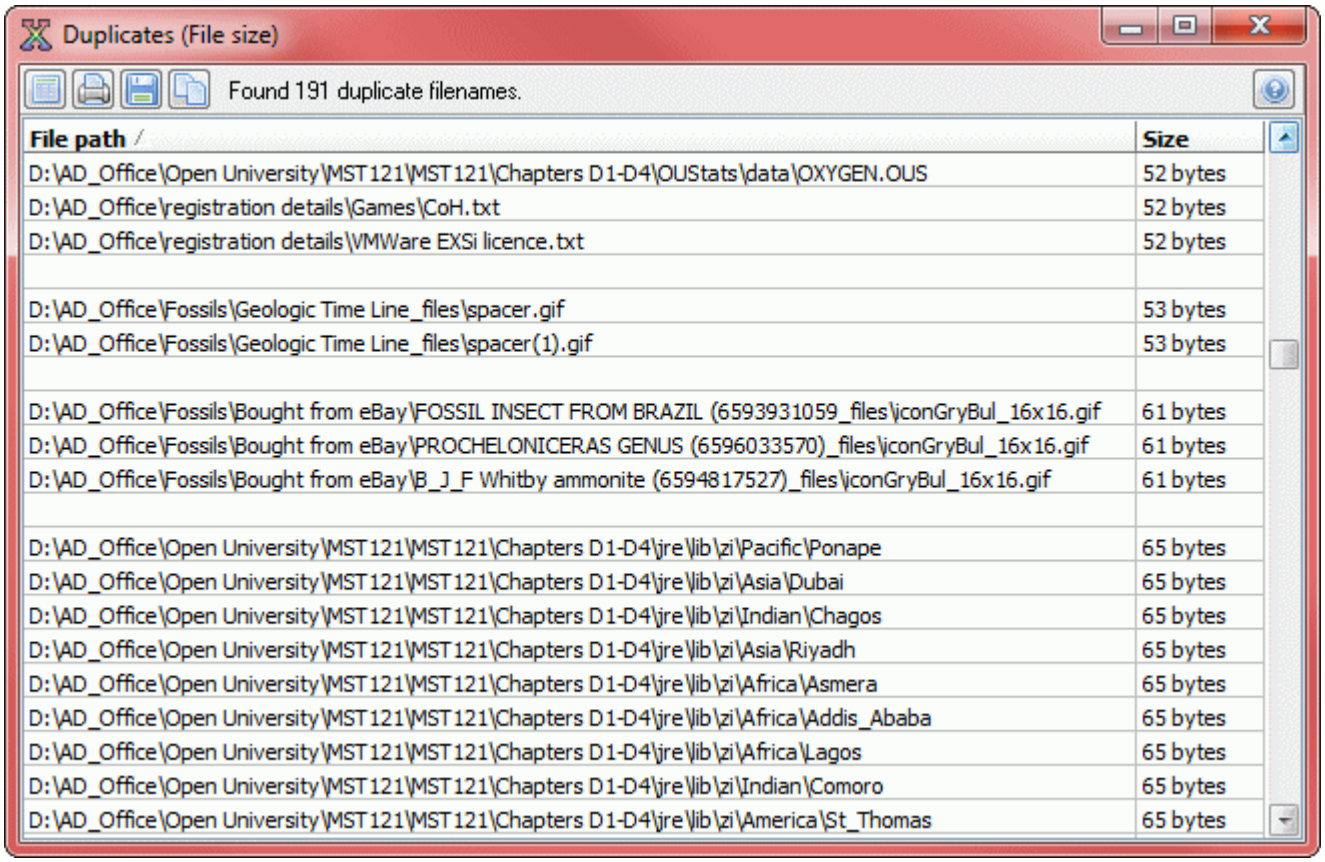
A list of files that all share the exact file size is available from the Detail menu as well as the *Advanced* panel.



The display lists all files with the same size that exist within the current scan folder.

Icons, left to right:

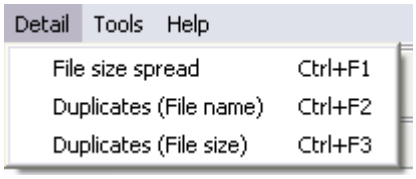
a) Start looking for duplicates
b) Print the table
c) Save the list of duplicates to a text file
d) Copy the table to the clipboard



File path	Size
D:\AD_Office\Open University\MST121\MST121\Chapters D1-D4\OUStats\data\OXYGEN.OUS	52 bytes
D:\AD_Office\registration details\Games\CoH.txt	52 bytes
D:\AD_Office\registration details\VMWare EXSi licence.txt	52 bytes
D:\AD_Office\Fossils\Geologic Time Line_files\spacer.gif	53 bytes
D:\AD_Office\Fossils\Geologic Time Line_files\spacer(1).gif	53 bytes
D:\AD_Office\Fossils\Bought from eBay\FOSSIL INSECT FROM BRAZIL (6593931059_files\iconGryBul_16x16.gif	61 bytes
D:\AD_Office\Fossils\Bought from eBay\PROCHELONICERAS GENUS (6596033570)_files\iconGryBul_16x16.gif	61 bytes
D:\AD_Office\Fossils\Bought from eBay\B_J_F Whitby ammonite (6594817527)_files\iconGryBul_16x16.gif	61 bytes
D:\AD_Office\Open University\MST121\MST121\Chapters D1-D4\jre\lib\zi\Pacific\Ponape	65 bytes
D:\AD_Office\Open University\MST121\MST121\Chapters D1-D4\jre\lib\zi\Asia\Dubai	65 bytes
D:\AD_Office\Open University\MST121\MST121\Chapters D1-D4\jre\lib\zi\Indian\Chagos	65 bytes
D:\AD_Office\Open University\MST121\MST121\Chapters D1-D4\jre\lib\zi\Asia\Riyadh	65 bytes
D:\AD_Office\Open University\MST121\MST121\Chapters D1-D4\jre\lib\zi\Africa\Asmera	65 bytes
D:\AD_Office\Open University\MST121\MST121\Chapters D1-D4\jre\lib\zi\Africa\Addis_Ababa	65 bytes
D:\AD_Office\Open University\MST121\MST121\Chapters D1-D4\jre\lib\zi\Africa\Lagos	65 bytes
D:\AD_Office\Open University\MST121\MST121\Chapters D1-D4\jre\lib\zi\Indian\Comoro	65 bytes
D:\AD_Office\Open University\MST121\MST121\Chapters D1-D4\jre\lib\zi\America\St_Thomas	65 bytes

Duplicate Files (by Name)

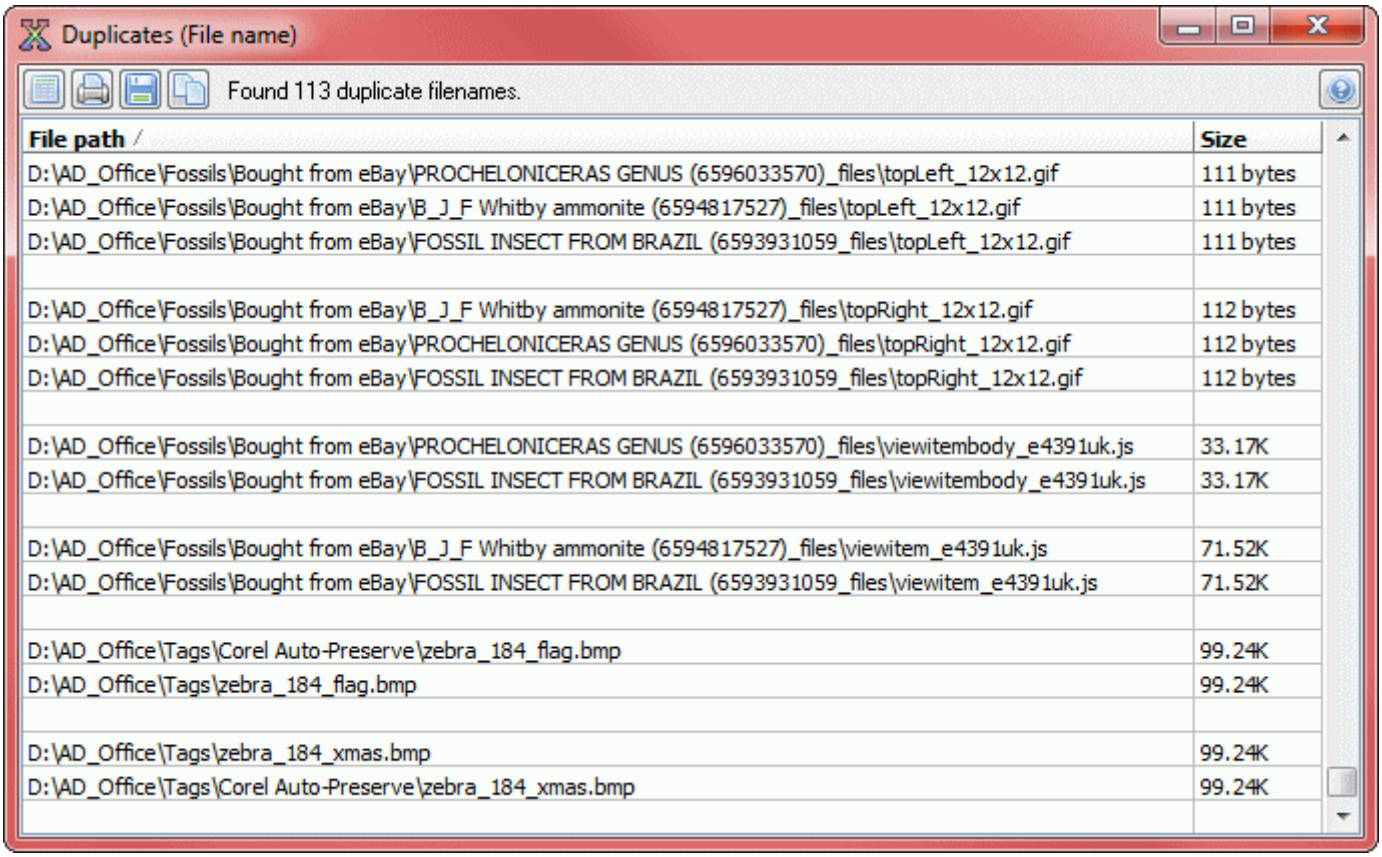
A list of files that all share the exact file name is available from the Detail menu as well as the *Advanced* panel.



The display lists all files with the same file name that exist within the current scan folder.

Icons, left to right:

a) Start looking for duplicates
b) Print the table
c) Save the list of duplicates to a text file
d) Copy the table to the clipboard

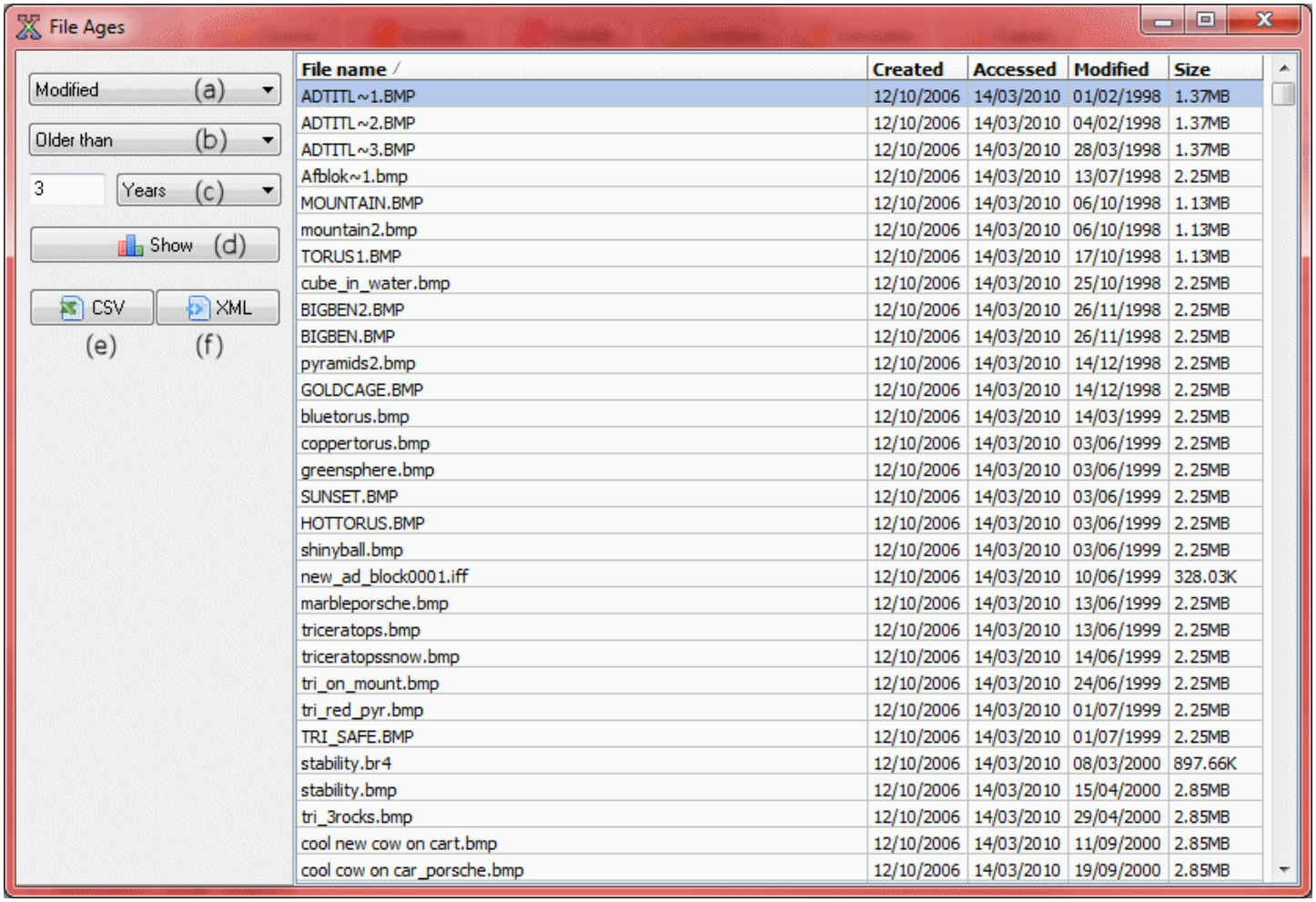


File path	Size
D:\AD_Office\Fossils\Bought from eBay\PROCHELONICERAS GENUS (6596033570)_files\topLeft_12x12.gif	111 bytes
D:\AD_Office\Fossils\Bought from eBay\B_J_F Whitby ammonite (6594817527)_files\topLeft_12x12.gif	111 bytes
D:\AD_Office\Fossils\Bought from eBay\FOSSIL INSECT FROM BRAZIL (6593931059_files\topLeft_12x12.gif	111 bytes
D:\AD_Office\Fossils\Bought from eBay\B_J_F Whitby ammonite (6594817527)_files\topRight_12x12.gif	112 bytes
D:\AD_Office\Fossils\Bought from eBay\PROCHELONICERAS GENUS (6596033570)_files\topRight_12x12.gif	112 bytes
D:\AD_Office\Fossils\Bought from eBay\FOSSIL INSECT FROM BRAZIL (6593931059_files\topRight_12x12.gif	112 bytes
D:\AD_Office\Fossils\Bought from eBay\PROCHELONICERAS GENUS (6596033570)_files\viewitembody_e4391uk.js	33.17K
D:\AD_Office\Fossils\Bought from eBay\FOSSIL INSECT FROM BRAZIL (6593931059_files\viewitembody_e4391uk.js	33.17K
D:\AD_Office\Fossils\Bought from eBay\B_J_F Whitby ammonite (6594817527)_files\viewitem_e4391uk.js	71.52K
D:\AD_Office\Fossils\Bought from eBay\FOSSIL INSECT FROM BRAZIL (6593931059_files\viewitem_e4391uk.js	71.52K
D:\AD_Office\Tags\Corel Auto-Preserve\zebra_184_flag.bmp	99.24K
D:\AD_Office\Tags\zebra_184_flag.bmp	99.24K
D:\AD_Office\Tags\zebra_184_xmas.bmp	99.24K
D:\AD_Office\Tags\Corel Auto-Preserve\zebra_184_xmas.bmp	99.24K

File Ages

Find files based on their age. List files based on last accessed or last modified date.

a) Choose from modified or accessed dates
b) "Older than" or "within the last"
c) Choose from any number of days, weeks, months or years.
d) Build the table (only the top 1000 items are shown)
e) Export the full list to CSV
f) Export the full list to XML



File name	Created	Accessed	Modified	Size
ADTITL~1.BMP	12/10/2006	14/03/2010	01/02/1998	1.37MB
ADTITL~2.BMP	12/10/2006	14/03/2010	04/02/1998	1.37MB
ADTITL~3.BMP	12/10/2006	14/03/2010	28/03/1998	1.37MB
Afblok~1.bmp	12/10/2006	14/03/2010	13/07/1998	2.25MB
MOUNTAIN.BMP	12/10/2006	14/03/2010	06/10/1998	1.13MB
mountain2.bmp	12/10/2006	14/03/2010	06/10/1998	1.13MB
TORUS1.BMP	12/10/2006	14/03/2010	17/10/1998	1.13MB
cube_in_water.bmp	12/10/2006	14/03/2010	25/10/1998	2.25MB
BIGBEN2.BMP	12/10/2006	14/03/2010	26/11/1998	2.25MB
BIGBEN.BMP	12/10/2006	14/03/2010	26/11/1998	2.25MB
pyramids2.bmp	12/10/2006	14/03/2010	14/12/1998	2.25MB
GOLDCAGE.BMP	12/10/2006	14/03/2010	14/12/1998	2.25MB
bluetorus.bmp	12/10/2006	14/03/2010	14/03/1999	2.25MB
coppertorus.bmp	12/10/2006	14/03/2010	03/06/1999	2.25MB
greensphere.bmp	12/10/2006	14/03/2010	03/06/1999	2.25MB
SUNSET.BMP	12/10/2006	14/03/2010	03/06/1999	2.25MB
HOTTORUS.BMP	12/10/2006	14/03/2010	03/06/1999	2.25MB
shinyball.bmp	12/10/2006	14/03/2010	03/06/1999	2.25MB
new_ad_block0001.iff	12/10/2006	14/03/2010	10/06/1999	328.03K
marbleporsche.bmp	12/10/2006	14/03/2010	13/06/1999	2.25MB
triceratops.bmp	12/10/2006	14/03/2010	13/06/1999	2.25MB
triceratopssnow.bmp	12/10/2006	14/03/2010	14/06/1999	2.25MB
tri_on_mount.bmp	12/10/2006	14/03/2010	24/06/1999	2.25MB
tri_red_pyr.bmp	12/10/2006	14/03/2010	01/07/1999	2.25MB
TRI_SAFE.BMP	12/10/2006	14/03/2010	01/07/1999	2.25MB
stability.br4	12/10/2006	14/03/2010	08/03/2000	897.66K
stability.bmp	12/10/2006	14/03/2010	15/04/2000	2.85MB
tri_3rocks.bmp	12/10/2006	14/03/2010	29/04/2000	2.85MB
cool new cow on cart.bmp	12/10/2006	14/03/2010	11/09/2000	2.85MB
cool cow on car_porsche.bmp	12/10/2006	14/03/2010	19/09/2000	2.85MB

Reference

File Extensions

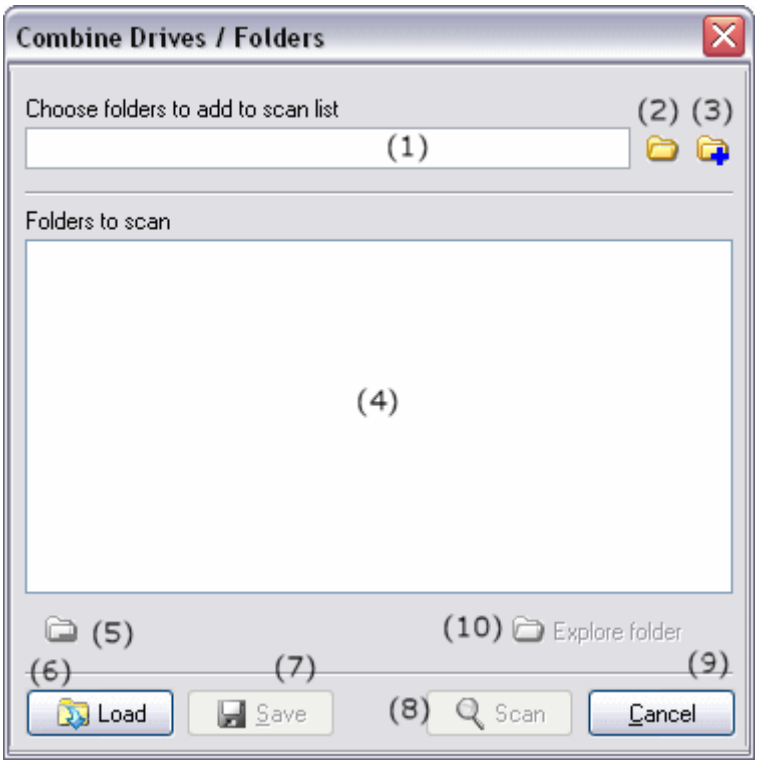
Find information on a specific file extension or group of file extensions. Currently Xinorbis has information on over 6000 file extensions.

Windows Files

Find information on a Windows XP or Windows 7 DLL. Xinorbis currently holds information on around 3300 files.

Combine Multiple Paths

The combine dialog lets you choose which drive or folder paths to merge into a single report.



1) Type the folder to add in this box or (3)
2) Add the chosen folder to the list
3) Use the folder picker dialog to choose the folder to add
4) Complete list of drives/ folders to combine
5) Delete an entry from the list
6) Load a previously saved list
7) Save the current list of folders to a file
8) Scan this list of folders now
9) Cancel this operation and return to Xinorbis
10) Open the selected folder in Windows Explorer

When the combine has finished you will have access to the same types of reports and information as when you analyse a single drive or folder. Don't forget that it may take some time to analyse if you add a lot of drives!!!

Click on the Scan button to continue with the analysis or Cancel to cancel the compare operation and return to the application.

Settings

General

Automatically check for updates on start-up
Enable this if you want to check for updates every time Xinorbis is opened. If this option is disabled then it's still possible to check for updates via the "help" menu.

Enable folder history
For more information on Folder History see the *Folder History* section.

Enable full file logging
When enabled this causes Xinorbis to store the full details of very file and folder from the scan.

Allow SQL statements when searching
Enable the use of SQL statements when searching, only valid in *Folder History*.

Table row height (default is 17)
Set the row height of all Xinorbis tables.

Date Format (default is dd/mm/yyyy)
Select which date format that Xinorbis should use within the application and reports.
Select from; dd/mm/yyyy, mm/dd/yyyy, mm-dd-yyyy, dd-mm-yyyy or yyyy/mm/dd.

Search result limit (default is 5000)
Sets the maximum amount of search results that will be returned on one “page”. When the number of search hits is greater than this value then it’s still possible to see them by “paging” through the results. This setting affects *Search*, *File History Search* and *File History Compare*.

Clear Scan History
Clears the Scan History table, found on the “Scan a drive or folder” page.

General -> Post Scan

Open which data tab after scan ...
Select which data tab (or select "Do Nothing" for none) you want Xinorbis to open as soon as a scan has finished.

General -> Paths

Xinorbis data folder
Set the location of Xinorbis reports and the *File History* database.

This has no effect when using ODBC.

Custom viewer
Select an application (such as a hex editor) that you wish to use to view files instead of the default Windows setting. The custom viewer option is available with the right mouse button on the *Search* table and *Dates* tree view.

General -> Optimisations

Xinorbis has several settings that will increase processing speed and minimise memory usage, although disabling some options will restrict the information that can be gathered.

Just-in-time processing
Enabling this setting will cause Xinorbis to only build certain displays when they are required. This will speed up the initial scan but may cause (slight) delays when selecting certain tabs, although this will only happen once for each tab/display.

Don't build date tree
When a drive or folder with many thousands of files has been processed the routines that create the *Date* tree can take a while to build the display. If you aren't interested in the time and date stamps of the files being scanned then enabling this optimisation will decrease the time of the initial scan. After the scan has finished it's still possible to see the Date tree display by selecting from the drop down list (Created, Modified and Accessed).

The ability to search by dates (created, modified and accessed) is not affected by this option.

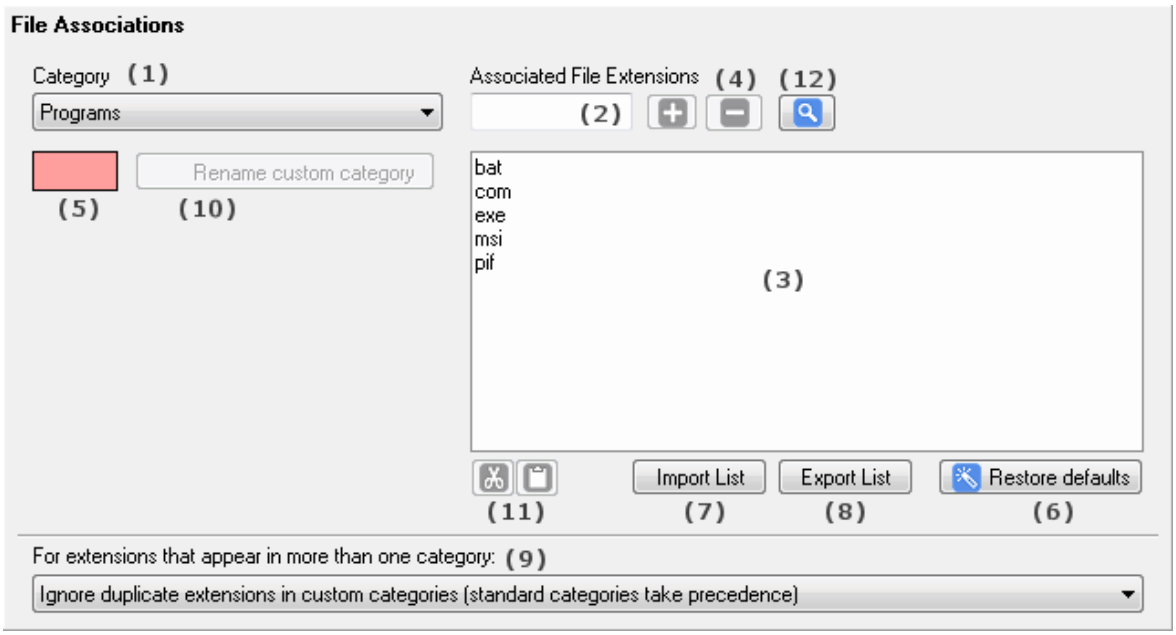
Add file names to "Date" tab
If this setting is selected the every file in the current scan will be added to the relevant date "node" in the *Date* tree display. Disabling this option will save processing time and decrease Xinorbis' memory footprint.

> **When there's less than this many files**
> Enabling this setting will ensure that file names are only added to the *Date* tree when there are less files in the current scan than the specified amount, the default is 1000.

Don't get file owner details
Enable this option if you are running on a system that only has one user, or you aren't interested in who each file belongs to. If you are scanning many thousands of files then enabling this optimisation can significantly speed up the scanning process.

Scanning progress update/refresh speed
This setting has six distinct steps that will make the Xinorbis window more or less responsive during scanning but at the expense of scan speed. The more responsive it is during scanning then the longer it will take. For small scans this will make no perceivable difference but for scans of entire drives it could add 10% or more (on the "Highest Process Update").

File Association Categories



1) Select a category to edit.
2) Type the extension in the box (no need for the leading '.') and click "add" or press enter.
3) List of extensions in this currently selected category.
4) Click here to delete a selected entry from the list.
5) Click to change the display colour of this category. (shown in graphs and in the reports)
6) Click to restore the default associations.
7) Import a list of extensions for a text file (one extension per line).
8) Export the extensions from the current category to a text file.
9) Select how Xinorbis should handle file extensions when they appear in more than one category. See below.

10) Rename the appropriate custom category.
11) Cut and paste one or more extensions from one category to another
12) Search for an extension

Xinorbis allows you to decide how it should handle file extensions that appear in more than one category:

Ignore duplicate extensions in custom categories (standard categories take precedence) (default)
The file extension will be processed as if it only appears in the standard categories, it will not appear in any custom category.

Ignore duplicate extensions in standard categories (custom categories take precedence)
The file extension will be processed as if it only appears in the custom categories, it will not appear in any other category.

Use extensions as specified in all categories (charts and reports may be inaccurate)
The file extension will be processed for every category it appears in, this will make charts and reports inaccurate so it is **not** recommended.

This control panel allows you to tell Xinorbis which file extensions should be associated to which category. The software has a default setup of around 40 associations. Click the "restore defaults" button to restore the associations to those of a fresh installation.

The "uncategorised" category is reserved for files with extensions that do not match any of those in the other categories. You cannot add file extensions to it!

Temporary Files

Tell Xinorbis what file types you would like flagged as temporary.

Use a filename or specific pattern, such as `\temp\` or `thumbs.db`.
Use a wildcard such as `*.tmp`, `~*` or `*dat*`.

Chart Options

Each chart within Xinorbis can have its gradient configured within this Settings section.

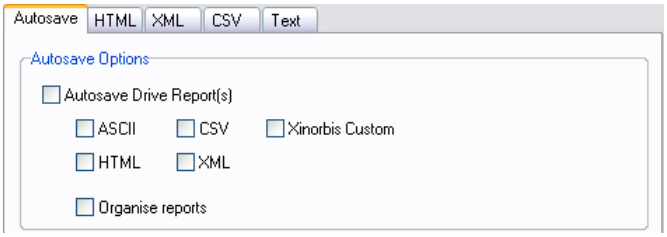
a) Gradient start colour
b) Gradient end colour
c) Toggle the gradient fill

Output Options

For each report type Xinorbis allows for five layout presets:

Auto Save	Always used by the “autosave mode”.
Quick	Always used by quick reports (F7 – F12)
Other	The default for the “save reports” window
Custom1	*User defined*
Custom2	*User defined*

Autosave Options

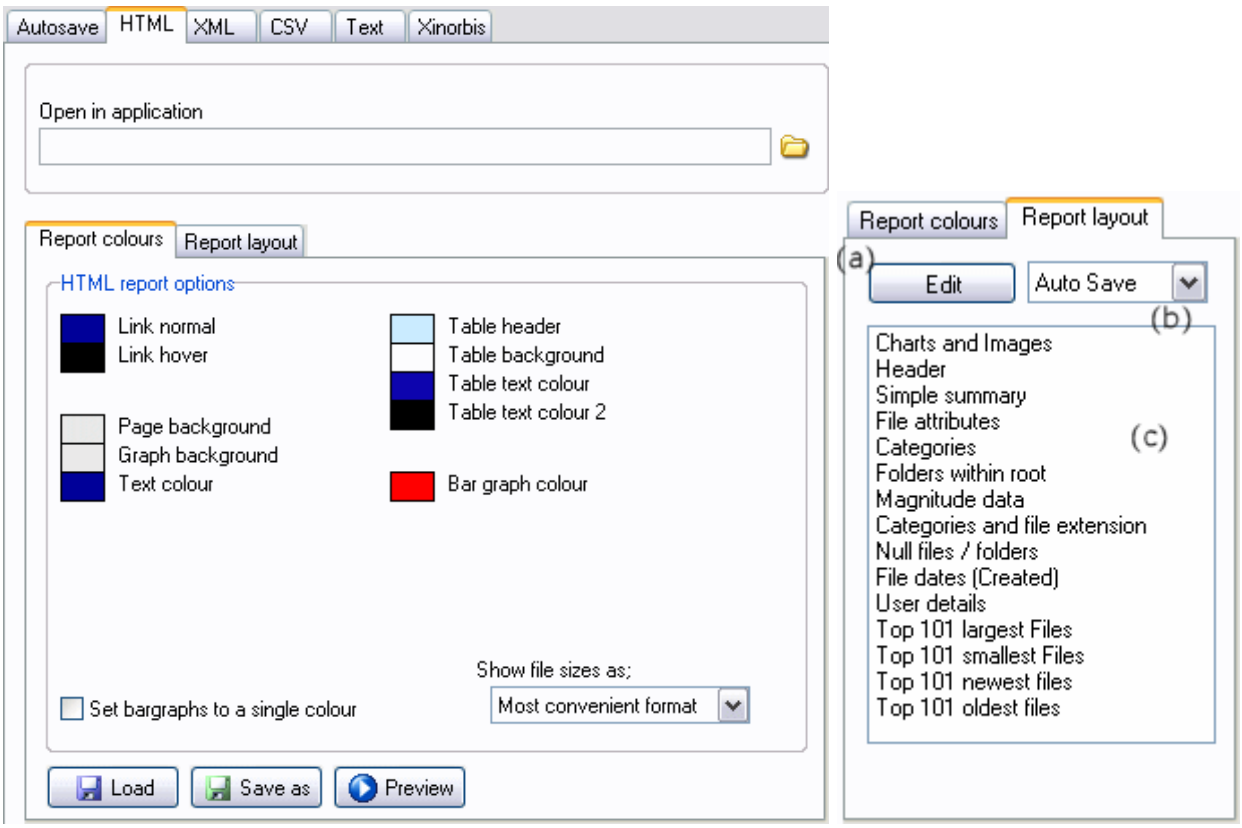


Autosave Drive Report

Will automatically save any drive analysis report, using the "Auto save" report preset.

Files are saved to: `"<report folder> \<computer name>\autosaves"`
The format of all reports is: `"drive_folder_yyyymmdd_hhmmss"`

HTML Output Options



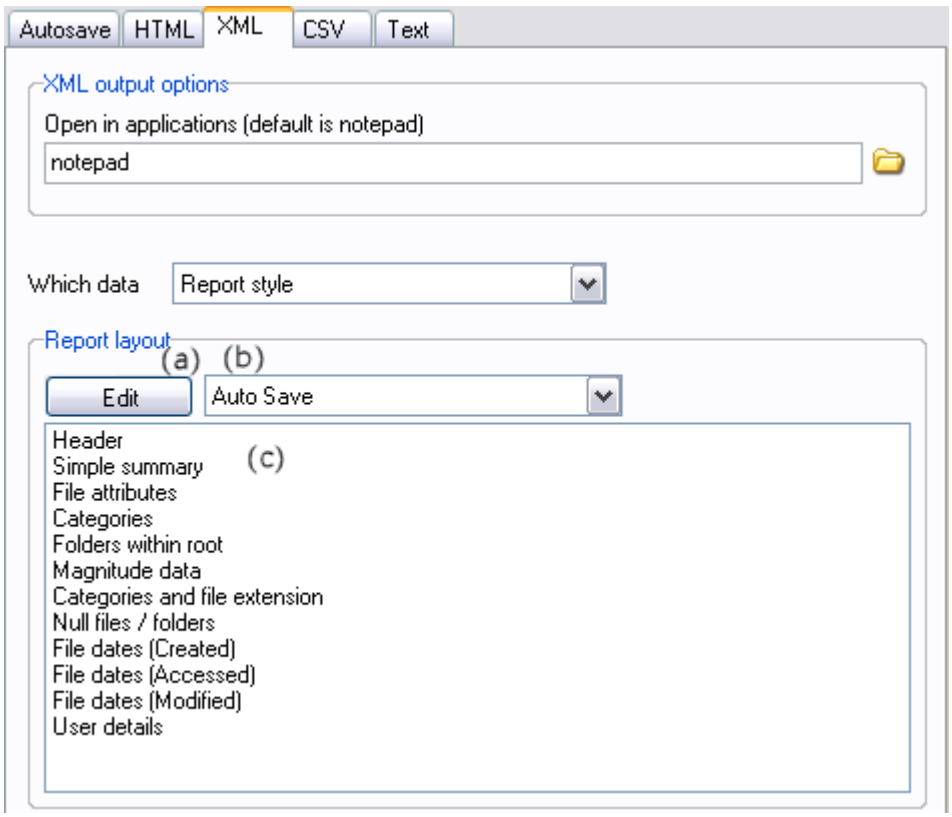
When viewing an HTML report within Xinorbis it's possible to select a specific application to view the report with. If no application is specified then the default Windows HTML viewer (such as Internet Explorer) is used.

Customise the output of the HTML report by altering the colours used within the report. There are several predefined schemes available that can be imported using the "Load" button. To save a scheme use the "Save As" button. Click the preview button to see a preview of your scheme in an example report.

For each report type Xinorbis allows for five layout presets (Auto Save, Quick, Other, Custom1 and Custom2) that determine what data should be added to the report. The "report layout" section of the HTML settings is where all of the presets can be edited. Select from (b) the preset you wish to edit and press (a) to open the editing window. The current layout for the selected preset (b) is shown in (c).

HTML layouts can be configured for 800x600 or 1024x768 displays from the dialog that's accessed from (a).

XML Output Options



When viewing an XML report within Xinorbis it's possible to select which application to view the report with. If no application is specified then Notepad is used.

"Which data" selects the data to be written. Report style contains the same kind of information as is found in the Summary section. File list contains a list of all the files and folders from the previous scan along with properties.

For each report type Xinorbis allows for five layout presets (Autosave, Quick, Other, Custom1 and Custom2) that determine what data should be added to the report. The "report layout" section of the XML settings is where all of the presets can be edited. Select from (b) the preset you wish to edit and press (a) to open the editing window. The current layout for the selected preset (b) is shown in (c).

When (d) is set Xinorbis will automatically open the created XML after it has been created.

When the Auto Open option is selected Xinorbis will open the report as soon as it's generated.

When Xinorbis is building and saving a File list report the colour of the XML link on the left hand side will change to green. When Xinorbis has finished updating the colour will change back to black.

CSV Output Options

Setting the "include column titles" option will add an extra row to the top of the file which lists the titles of each column.

When viewing a CSV report within Xinorbis it's possible to select which application to view the report with. If no application is specified then Notepad is used.

When Xinorbis is building and saving a CSV report the colour of the CSV link on the left hand side will change to green. When Xinorbis has finished updating the colour will change back to black.

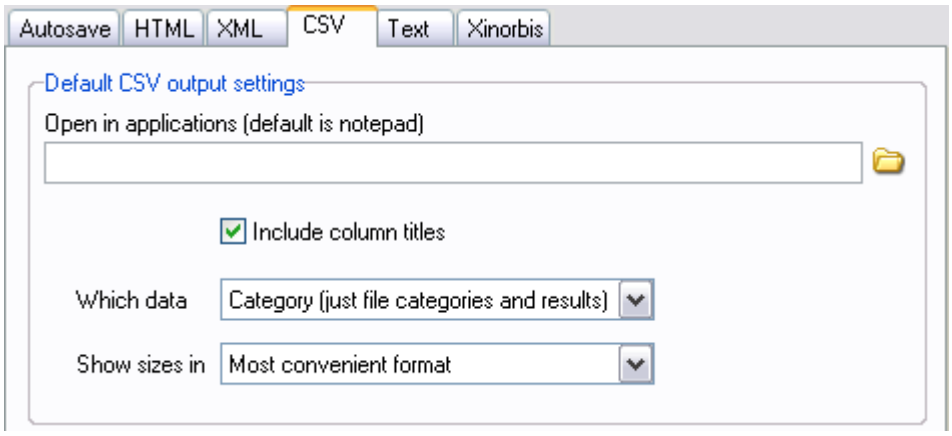
When Auto Open is set Xinorbis will automatically open the created CSV file after it has been created.

The "Separator" has two options:

Comma	separate values by a comma (default)
Tab	separate values by a tab

The "Which data" option has two settings:

Category	output the same information as in the "table" view.
Files	output every file that was found in the current scan along with size and date details.



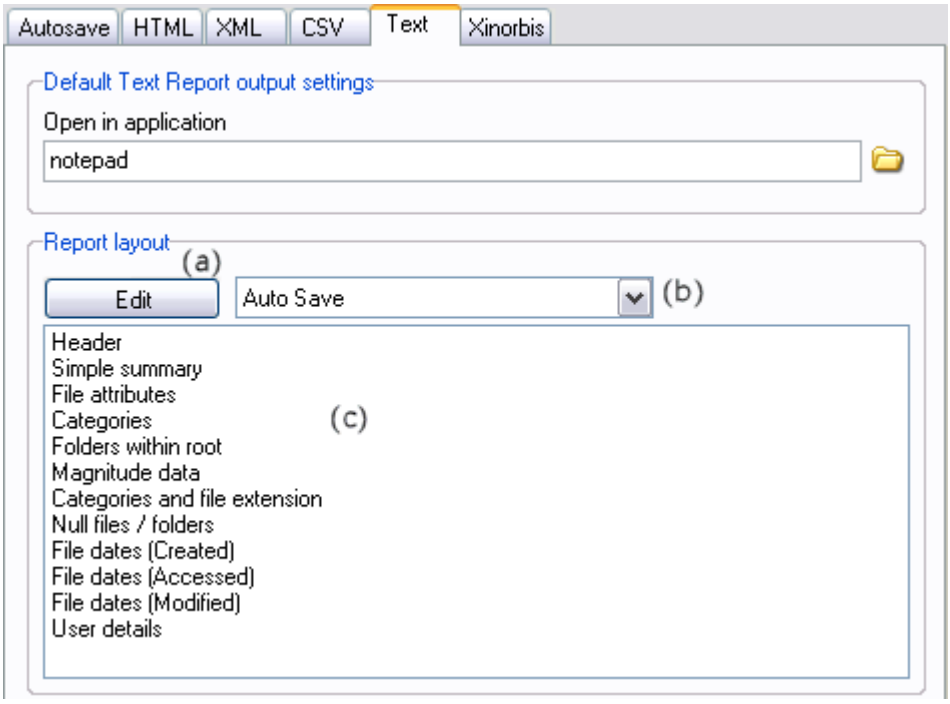
The last option is "Show sizes in" and will change the way that file sizes are displayed in the report.

For example, a file of exactly 1MB would be shown as:

Most convenient unit;	1MB*
As bytes;	1048576*
As kilobytes;	1024*

* This is not always the case with all applications, but Xinorbis uses the most commonly recognised convention.

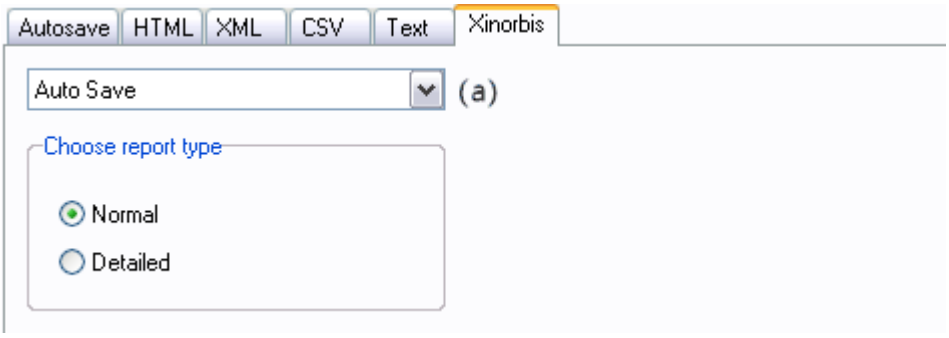
Text Output Options



When viewing a Text report within Xinorbis, you can select which application to view the report with. If no application is specified then Notepad is used.

For each report type Xinorbis allows for five layout presets (Autosave, Quick, Other, Custom1 and Custom2) that determine what data should be added to the report. The "report layout" section of the Text settings is where all of the presets can be edited. Select from (b) the preset you wish to edit and press (a) to open the editing window. The current layout for the selected preset (b) is shown in (c).

Xinorbis Output Options



Select the preset to edit using (a).

Normal
Stores only file names, folder names and file sizes. This produces a smaller file but at the expense of detail.

Detailed
Stores all file and folder information, much more detailed but produces much larger files (around 300% larger).

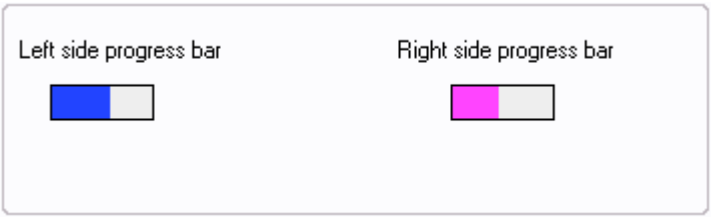
Favourites

Favourites are a list of folders (whole drives, local or remote folders) that can be accessed from this button, , on the "Scan a drive or folder" page.

a) The list of current favourites (a maximum of 20).
b) Move the selected Folder up one.
c) Move the selected Folder down one.
d) Add a new Folder.
e) Delete the selected Folder.
f) Open the selected folder with Windows Explorer

Press the right mouse button over (d) for a list of special Windows folders.

Folder Structure



Click either of the blue/grey or purple/grey parts to change the colours of the relevant parts of the *Folder Structure* display.

Importing from a CSV file

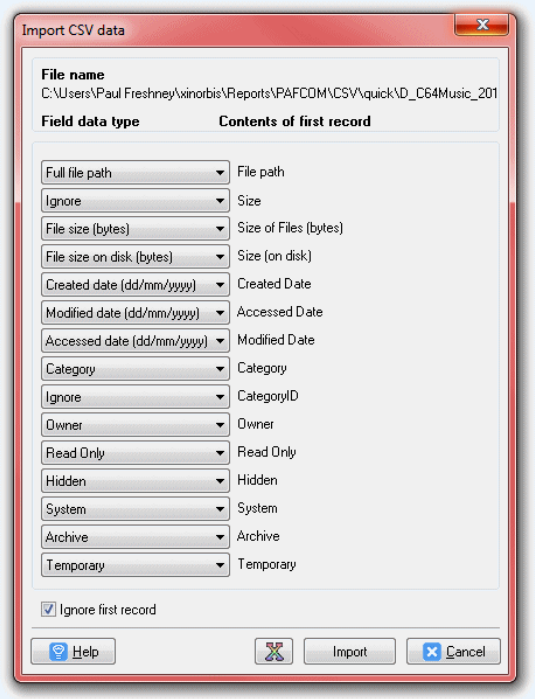
Xinorbis allows you to process data that has been created with other applications, as well as those created by Xinorbis. CSV files can be created from many other applications and therefore it makes it a common choice.

There is no single specification for how a CSV (comma separated values) file should be laid out for the purposes of storing file data. The CSV format only specifies how the data should be stored, not in what order or format!

The Xinorbis import CSV data screen allows you to tell Xinorbis the structure of the CSV file you wish to import.

To make it easier to decide which field of the file contains which data, Xinorbis will show you the first item of data available for each field. From this it should be easy to decide how to import the data.

For each item of data in the file you can decide whether it is:



Full file path; e.g. c:\some folder\somefile.txt
File size (in bytes); e.g. 10000, this field has to be a number (only characters 0-9 allowed)
File size on disk; e.g. 10024, this field has to be a number (only characters 0-9 allowed)
File date (dd/mm/yyyy); e.g. 17/04/1975
File date (mm/dd/yyyy); e.g. 04/17/1975 (US-style date format)
File path; e.g. c:\some folder\
File name; e.g. somefile.txt
Owner; e.g. Paul A Freshney
Category; e.g. 6
Readonly; e.g. 0 to unset, anything else to set this attribute
Hidden; e.g. 0 to unset, anything else to set this attribute
System; e.g. 0 to unset, anything else to set this attribute
Archive; e.g. 0 to unset, anything else to set this attribute
Temp; e.g. 0 to unset, anything else to set this attribute

If the CSV file you wish to import contains data that Xinorbis doesn't need (such as modified data, in the above image) then setting that field to *ignore* will ensure Xinorbis discards it.

Only the file name is mandatory, all of the rest are optional. However, missing information could render your results wildly inaccurate or useless. If no size value is given then all files are treated as zero bytes.

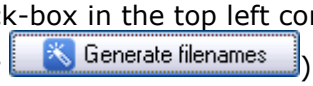
If the CSV file you wish to import contains a "title" or "header" record as its first record (as in the above example), then you can stop Xinorbis trying to process this by checking the "Ignore first record" tick box.

The first record is often set in this way as it can be useful when importing the data in to Excel because it acts as column titles.

Xinorbis supports importing from the first 15 fields; all of the rest are ignored automatically. Most programs that create the sort of data that you'd want to import in to Xinorbis (such as *XYplorer*) allow you to customise their output, so this shouldn't be a problem.

Click the **X** button to automatically configure the field data types to those of Xinorbis-created CSV files.

Saving Reports

Select which report(s) to create by clicking the check-box in the top left corner of a report type. Enter a file name (or use the automatic file name generator 

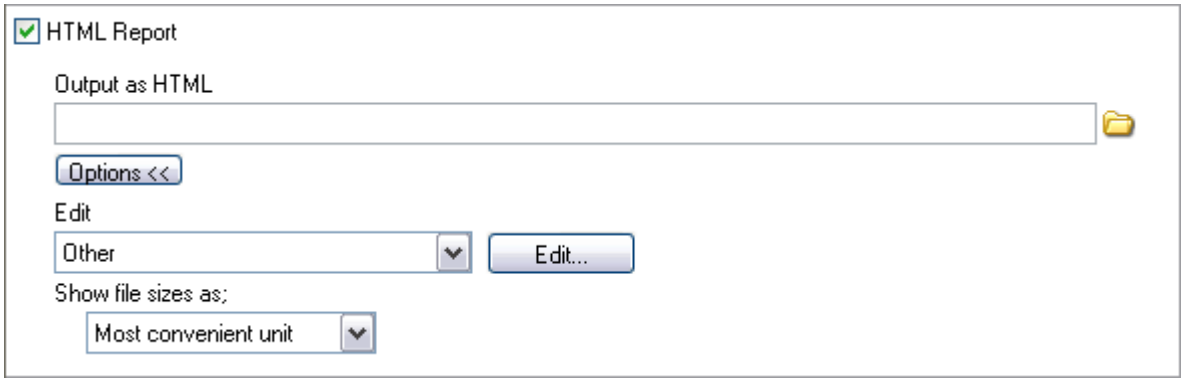
).

For each report type Xinorbis stores five presets; **Autosave**, **Quick**, **Other**, **Custom1** and **Custom2**. These come with default settings but can be edited either from *Settings* (press F6) or from within the individual report sections, below.

Clicking the "Options >>" button will open the full range of options for the selected report. For those reports that use the presets select from the drop-down box labelled "Edit" and click the "Edit" button to edit them. The Quick reports (F7 to F12) always use the Quick report settings so it's best not to edit and use that particular preset here.

The selected preset will be the one used when the "Save" button is pressed to create and save the reports.

A CSV report can contain either the list of categories (audio, video, system, etc.) along with the relevant data or a complete list of files with details; size, date, file attributes etc.

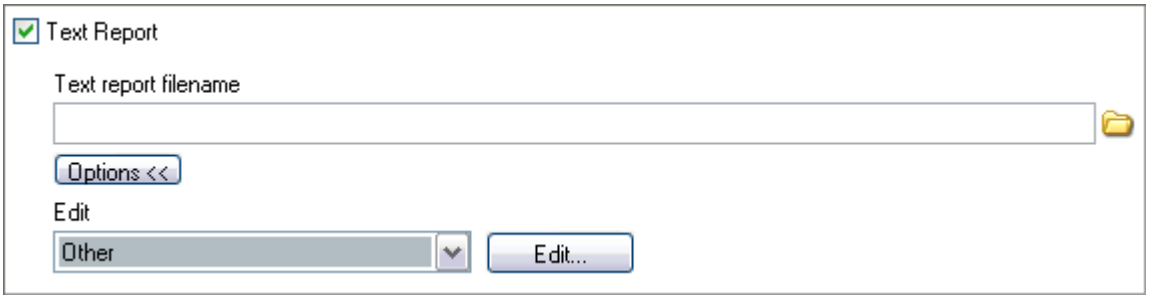


The HTML report options are shown here along with the option of selecting how file sizes should be shown.

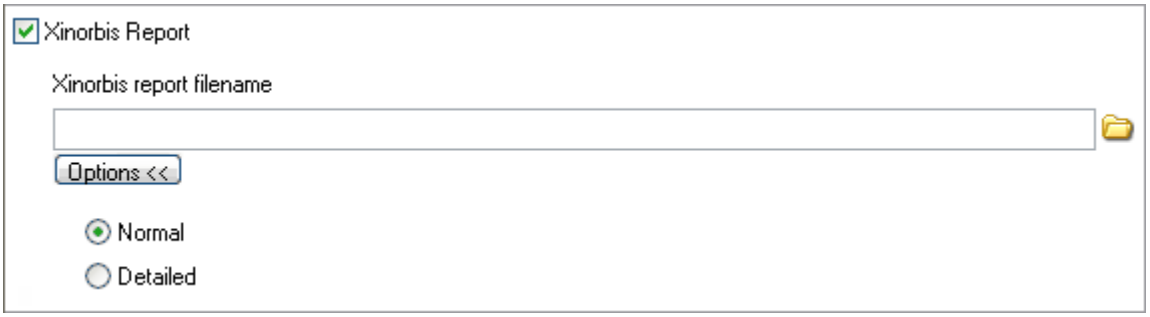
For example, a file of *exactly* 1MB would be shown as;

Most convenient unit;	1MB*
As bytes;	1048576*
As kilobytes;	1024*

* This is not always the case with all applications, but Xinorbis uses the most commonly recognised convention.

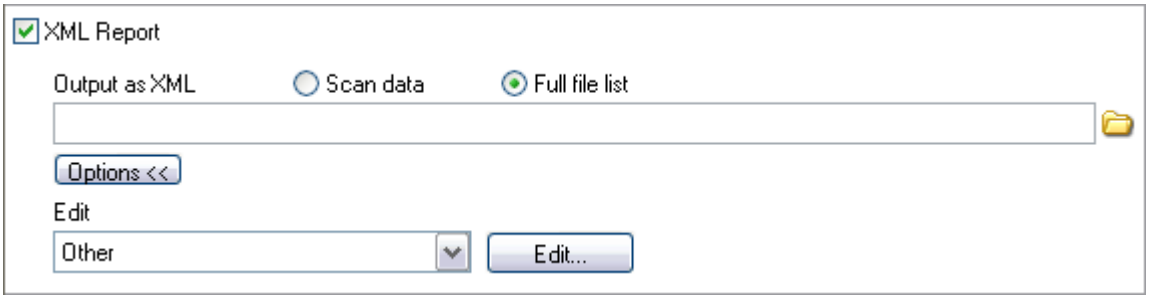


The Text report options are shown here. Any of the five presets can be selected and/or edited.



The Xinorbis report type only has two options;

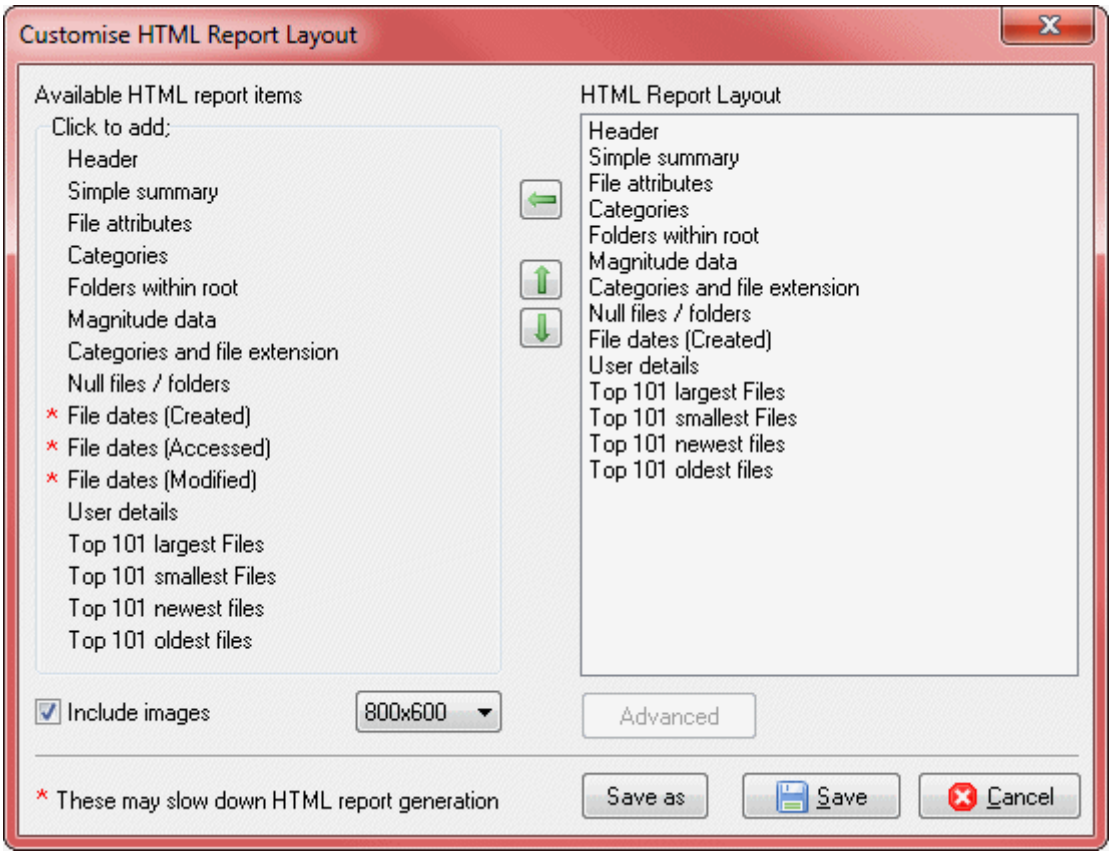
Normal	Stores only the file names, folder names and file sizes. This produces a smaller file at the expense of detail.
Detailed	Stores *all* file and folder information, it's much more detailed and produces much larger files (around 300% larger).



A XML report can contain either the scan data or a complete list of files along with size, date, type etc. The selected presets are not used when "Full file list" is selected.

Customising Xinorbis reports

HTML



The left hand side of the HTML report layout window lists all of the available report sections. Click on each section individually to add it to the report (the items on the right hand side). Each section can only be added once.

To remove an item from a report: double-click the selected item on the right or press the button.

To alter the order in which the items appear on the report; click an item and use the and buttons to move it around the report.

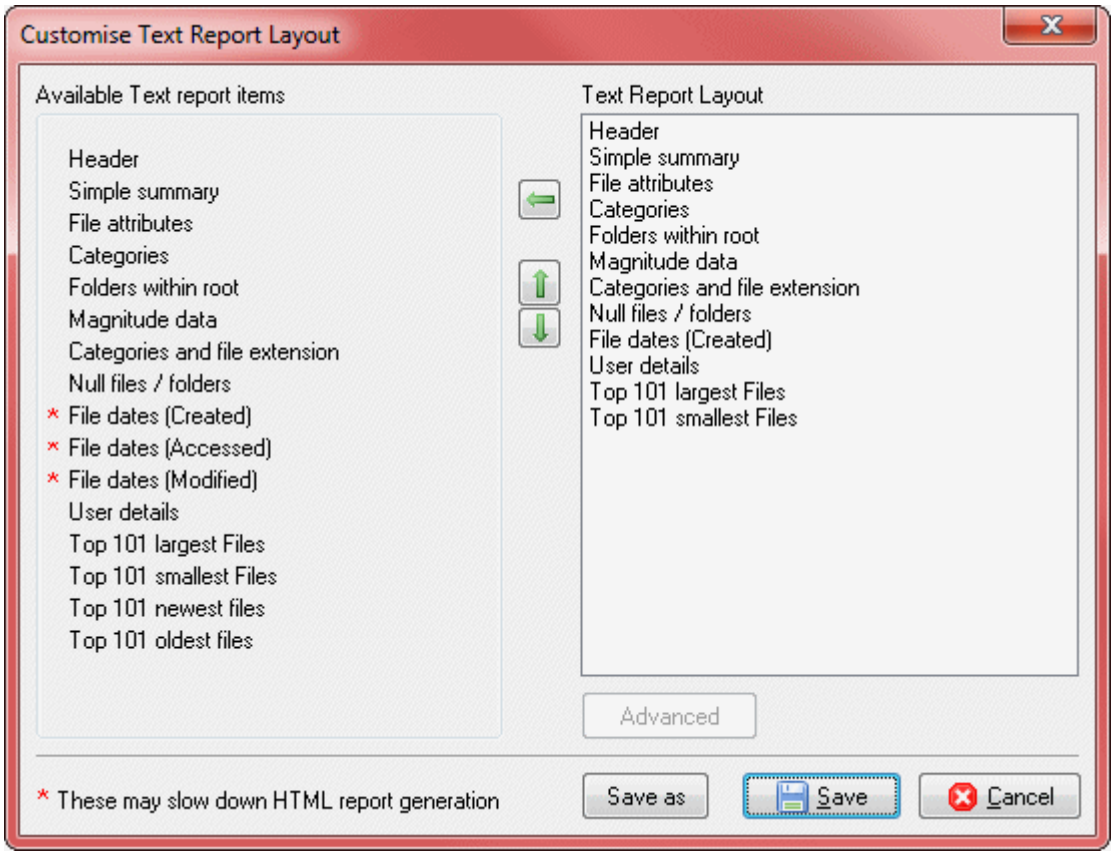
Reports can be generated with or without graphs by toggling the "Include images" check-box. The size of the report can be optimised to fit either 800x600 or 1024x768 displays.

The "Categories and file extension" section can be customised by clicking the "Advanced" button. This will open up a list of available categories that can be included/excluded from the report.

The report can be saved by clicking the "Save as" button. Saved HTML reports can be executed as "quick" reports by right-clicking the Quick HTML report icon and selecting "Open…".

It's worth noting that selecting either of the "File dates" items may slow down the HTML report generation as this data will have to be generated before the report can be saved.

Text



The left hand side of the Text report layout window lists all of the available report sections. Click on each section individually to add it to the report (the items on the right hand side). Each section can only be added once.

To remove an item from a report double-click the selected item on the right or press the button.

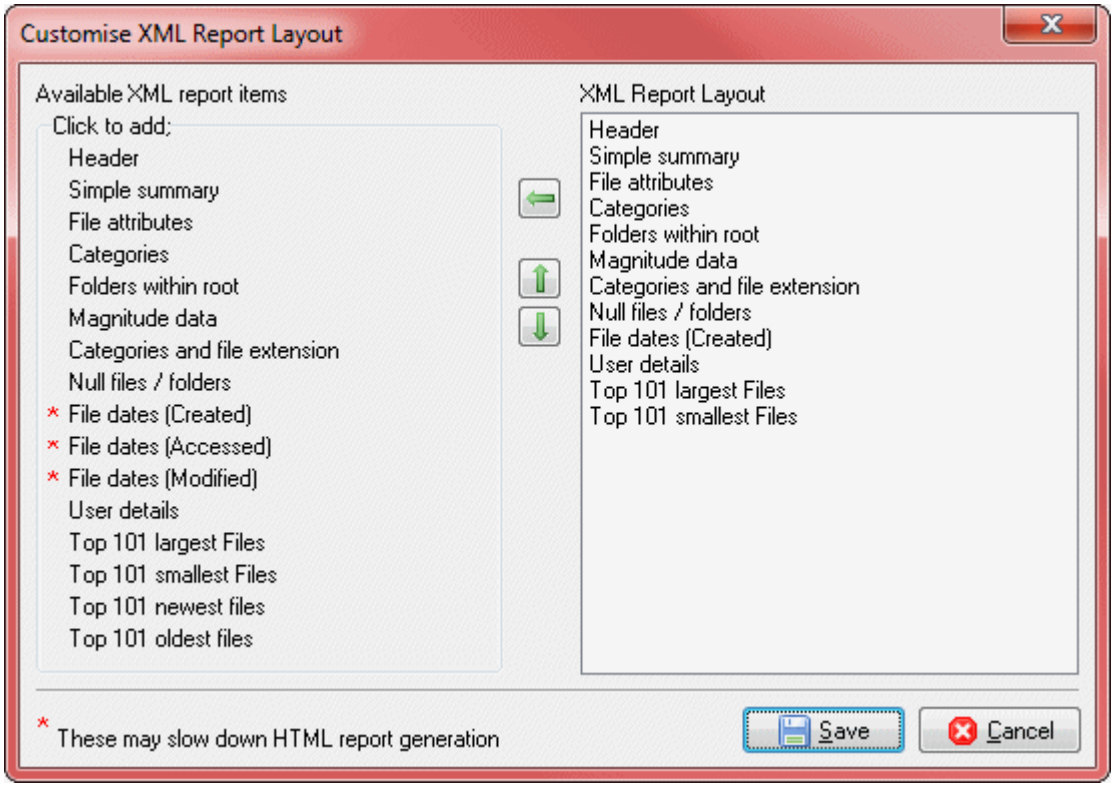
To alter the order in which the items appear on the report; click an item and use the and buttons to move it around the report.

The "Categories and file extension" section can be customised by clicking the "Advanced" button. This will open up a list of available categories that can be included/excluded from the report.

The report can be saved by clicking the "Save as" button. Saved Text reports can be executed as "quick" reports by right-clicking the Quick Text report icon and selecting "Open…".

It's worth noting that selecting either of the "File dates" items may slow down the Text report generation as this data has to be generated before the report can be saved.

XML



The left hand side of the XML report layout window lists all of the available report sections. Click on each section individually to add it to the report (the items on the right hand side). Each section can only be added once.

To remove an item from a report double-click the selected item on the right or press the button.

To alter the order in which the items appear on the report; click an item and use the and buttons to move it around the report.

The "Categories and file extension" section can be customised by clicking the "Advanced" button. This will open up a list of available categories that can be included/excluded from the report.

It's worth noting that selecting either of the "File dates" items may slow down the XML report generation as this data will have to be generated before the report can be saved.

For more information on the XML structure that Xinorbis uses see the "Xinorbis report structure" section.

Using Xinorbis as a “portable application”

Xinorbis will store user preferences to the Windows’ registry.

To stop all registry access and to force Xinorbis to store user preferences locally to the application, create a file called custom.ini and place it in the same folder as the x5.exe file. An example file is included in the same folder as the Xinorbis executable and is named "_custom.ini".

The custom.ini should be a text file with the following structure;

[main]

`portablemode=1`	This will tell Xinorbis to operate in "portable mode", disabling all registry access. All user preferences are saved to the custom.ini file.
`copyprefs=1`	When **not** running in "portable mode" this option will tell Xinorbis to save a copy of settings to the custom.ini file in addition to the registry.
`datapath=`	The location to use for all reports and saved files.

The path specified in *datapath* will be created if it doesn't exist. There are two special variables that can be used within the *datapath* entry;

`$xdrive`	the drive where Xinorbis is being run from.
`$xfolder`	the folder where Xinorbis is being run from.
`<???>`	Where “???” is any environmental variable.

If your copy of Xinorbis is installed to `"P:\utils\xinorbis5\"` then:

`$xdrive` would be equal to `"P:"`
`$xfolder` would be equal to `"P:\utils\xinorbis5"` .

Any user additions to the file extension categories will be stored in `"<install folder>\data"`. The following files are used;

`audio.txt`	Sound, music or other audio files
`compressed.txt`	Compressed archives of files
`graphics.txt`	Graphics, 3D objects etc.
`movie.txt`	Movie or animation files
`office.txt`	Text file, spreadsheets etc.
`programming.txt`	Project files, includes, source code etc.
`programs.txt`	Executable files
`system.txt`	Operating system files

`custom1.txt`
`custom2.txt`
`custom3.txt`
`custom4.txt`
`custom5.txt`
`custom6.txt`
`custom7.txt`
`custom8.txt`
`custom9.txt`
`custom10.txt`
	Create these as necessary as they aren't defined by default.

These can be edited if required. Each file is a standard ASCII text file and contains one file extension per line. No need to add the leading '.' .

Please email me if you would like more options and customisations added to Xinorbis' "portable mode".

Using ODBC

By default Xinorbis uses an excellent database engine called **SQlite** to store the *Folder History* data archive. SQlite is part of the Xinorbis installer and is included in the ZIP archive, it does not need to be installed separately.

For many users SQlite will be more than adequate, but for power or enterprise users it probably isn't going to be powerful enough.

That's why versions 5.2 and above of Xinorbis come with ODBC connectivity. ODBC allows Xinorbis to talk to a wide range of different databases including Microsoft SQL Server, mySQL and Oracle.

How to configure Xinorbis to use ODBC:

(1) Install your database engine of choice and ensure that all of the necessary ODBC plugins for the database are installed too.

(2) Create a database called XINORBIS. (choose something else if you *really* want to)

(3) Edit the `custom.ini`* file that's located in the root of the Xinorbis install and edit the two ODBC parameters:

```
useodbc=1
connectionstring=<enter the connection string here>
```

For example, the connection string I use to connect to SQLServer Express 2008 on my development PC is:

```
connectionstring=Provider=SQLOLEDB.1;Integrated Security=SSPI;Persist
Security Info=False;Initial Catalog=XINORBIS;Data Source=PAFCOM\SQLEXPRESS
```

Please see your database administrator for information on creating the ODBC connection string.

(4) That's it!

The underlying operation will not be affected by using ODBC instead of SQlite, all functions and features will work as normal.

The "Backup your Xinorbis data" option is available in ODBC mode but only the contents of the Xinorbis data folder will be archived, the ODBC database will not!

* The `custom.ini` file is installed as `_custom.ini`, rename to `custom.ini` to enable.

Information for advanced users

Customising the QuickSearch popup menus.

The instructions required for building the popup-menus that appear when the "quick search" menu button is pressed are stored in two files called `FHQuickSearch.menu` and `QuickSearch.menu`.

There is copy for each language, in `<Xinorbis install folder>\data\languages\`.

The files are standard text files that can be edited with any decent ASCII editor. I've written an application that will let you test the menu script; it's called `MenuBuilder.exe` and is located in the `\data\languages\` folder.

Each line of the text file is an instruction to the menu builder system.

A greyed-out title is created by putting text between a set of braces, { }

A separating line is created by having a single - (hypen) on a line.

A clickable menu item looks like this;

```
.Some Text=command
```

See further down for information on available commands.

A clickable sub-menu item looks something like this;

```
[The name/description of the menu]
.An Item=command
.Another Item=command
*
```

The * (asterisk) signifies the end of a sub-menu and must be included!

Commands

A command can be any search command or set of commands.

To search for all files created after the 17th of April 2009;

```
.Menu Item=(date>20090417)
```

However, this isn't very useful so it's possible to have Xinorbis generate a date or get the user to select one.

Date / Time Commands

`{NOW}`
Today's date. `.Menu Item=(date>{NOW})`

Clicking on this menu item will search for all files created on or after today

`{DECWEEK}`
A date one week ago from today `.Menu Item=(date>{DECWEEK})`

Clicking on this menu item will search for all files created in the last week.

`{DECMONTH}`

A date one month ago from today. `.Menu Item=(date>{DECMONTH})`

Clicking on this menu item will search for all files created in the last month.

`{DECMONTH6}`

A date six months ago from today. `.Menu Item=(date>{DECMONTH6})`

Clicking on this menu item will search for all files created in the last six months.

`{DECMONTH12}`

A date one year ago from today. `.Menu Item=(date>{DECMONTH12})`

Clicking on this menu item will search for all files created in the last twelve months

`{DECMONTH24}`

A date two years ago from today. `.Menu Item=(date>{DECMONTH24})`

Clicking on this menu item will search for all files created in the last twenty four months.

`{GetDateDialogA}`

Opens a search function dialog, for filtering by last accessed dates between two user selectable dates. `.Menu Item={GetDateDialogA}`

Clicking on this menu item will search for all files accessed within the user's selection.

`{GetDateDialogC}`

Opens a search function dialog, for filtering by last accessed dates between two user selectable dates. `.Menu Item={GetDateDialogC}`

Creates a search function dialog, for filtering by created dates between two user selectable dates

`{GetDateDialogM}`

Opens a search function dialog, for searching modified dates between two user selectable dates. `.Menu Item={GetDateDialogM}`

Clicking on this menu item will search for all files modified within the user's selection.

File Size Commands

`{GetSizeDialog}`

Creates a search function dialog, for searching between a set of file sizes. `.Menu Item={GetSizeDialog}`

Clicking on this menu item will allow for a search for all files within the user's selection.

XML Report Structure

Xinorbis outputs fully v1.0 compliant XML.

Structure for XML file lists

```
<xinorbisfilelist>
      <file>
            <name>                    File name
            <path>                    Full file path
            <sizewords>               Size represented in most convenient format; 1MB, 500K etc.
            <sizebytes>               Size in bytes
            <sizeondiskwords>         Used disk space, most convenient format; 1MB, 500K etc.
            <sizeondiskbytes>         Actual used disk space in bytes
            <owner>                   File owner
            <datecreated>             Date file created in selected date format
            <datemodified>            Date file modified in selected date format
            <dateaccessed>            Date file was last accessed in selected date format
            <datecreatedyyyymmdd>     Date file created in YYYYMMDD date format
            <datemodifiedyyyymmdd>    Date file modified in YYYYMMDD date format
            <dateaccessedyyyymmdd>    Date file was last accessed in YYYYMMDD date format
            <category>                File category (1- programs etc.)
            <directory>               1 if folder, 0 if file.
            <readonly>                1 if file is read only
            <hidden>                  1 if file is hidden
            <system>                  1 if file is system file
            <archive>                 1 if file is archive
      </file>
</xinorbisfilelist>
```

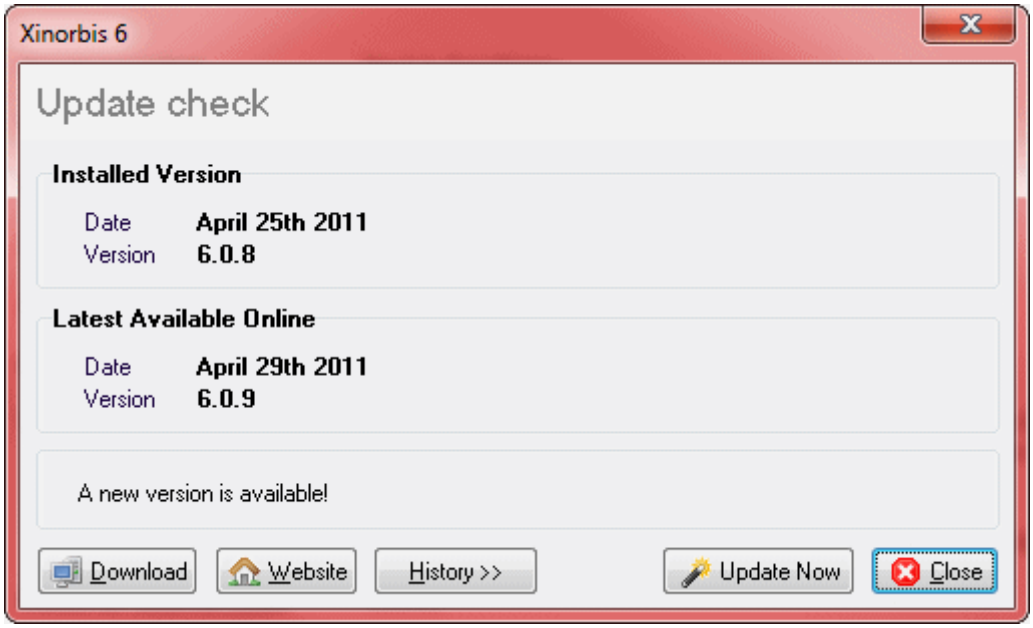
Structure for XML report output

```
<xinorbisreport>

<information>
      <directory>                     analysed path
      <date>                          date of analysis
      <numberoffiles>                 number of files included in analysis
      <numberofdirectories>           number of folder in analysis
      <sizeoffiles>                   total size of the files analysed
      <diskspacefreee>                disk space available on target drive
      <diskspacemax>                  disk space total on target drive
      <sectorspercluster>             number of sectors per cluster
      <bytespersector>                number of bytes per sector
      <freeclusters>                  free clusters on hard disk
      <totalclusters>                 total clusters on hard disk
      <volumename>                    volume name of hard disk
      <serialnumber>                  hard disk serial number
      <filesystem>                    file system type (FAT32, NTFS etc.)
</information>

<categorylist>
      <category name='">              one section for each of the 10 file categories
      <numberoffiles>                 number of files belonging to relevant category
      <numberoffilesaspercent>        number of files as percentage of total analysed
      <sizeoffiles>                   size of files analysed, belonging to relevant category
      <sizeoffilesaspercent>          size of files as percentage of total analysed, relevant
                                      category
</categorylist>

<dirlist>
      <dir name="">                   one section for each dir analysed
            <numberoffiles>           number of files in analysed folder
            <numberoffilesaspercent>  number of files as percentage of total analysed
            <sizeoffiles>             combined size of files
            <sizeoffilesaspercent>    combined size of files, as percentage of total analysed
      </dir>
</dirlist>

<magnitudelist>
      <magnitude name="">             one section for each magnitude category
            <numberoffiles>           number of files in analysed folder
```

```
            <numberoffilesaspercent>   number of files as percentage of total analysed
            <sizeoffiles>              combined size of files
            <sizeoffilesaspercent>     combined size of files, as percentage of total analysed
      </magnitude>
</magnitudelist>

<extensiondata>
      <extensioncategory name="">      one section for each extension category
            <numberoffiles>            number of files in analysed folder
            <numberoffilesaspercent>   number of files as percentage of total analysed
            <sizeoffiles>              combined size of files
            <sizeoffilesaspercent>     combined size of files, as percentage of total analysed

            <extension name="">        one section for extension within this category that has
                                       more than one file associated with it

            <numberoffiles>            number of files in analysed folder
            <numberoffilesaspercent>   number of files as percentage of total analysed
            <sizeoffiles>              combined size of files
            <sizeoffilesaspercent>     combined size of files, as percentage of total analysed
            </extension>
      </extensioncategory>
</extensiondata>

<top50largest>
      <top50large size="">path to file</top50large>
</top50largest>

<top50smallest>
      <top50small size="">path to file</top50small>
</top50smallest>

<top50oldest>
      <top50old date="" size="" owner="">path to file</top50old>
</top50oldest>

<top50newest>
      <top50new date="" size="" owner="">>path to file</top50new>
</top50newest>

<nullfiles>
      <nullfile name='">path to file</nullfile>
</nullfiles>

</xinorbisreport>
```

If you need any help with the XML output or if you'd like to see more options then please don't hesitate to contact me.

Updating Xinorbis



When Xinorbis is opened (or the *Check for Updates* menu option is clicked) it will connect to the internet to see if a new version is available.

If a new version is available there are two ways to update your installation:

1) Click the *Download* button to download the latest version of the installer.

Or

2) Click the *Update Now* button to close Xinorbis and launch the **automatic updater**. This will connect to the internet and download only those parts of the installation that have changed. Once the updater has finished your installation will be up-to-date.

Credits

Programming	Paul Alan Freshney
Development Cats	Rutherford and Freeman
Database Engine	SQlite (`www.sqlite.org`)
ZIP Compression	TZipMaster (`www.delphizip.org`)
16x16 Icons	Mark James (`www.famfamfam.com/lab/icons/silk/`)
Application Icon/Logo	Sören Bockhoop
French Translation	Christian Perronnet
German Translation	Marcus Barkhahn
Hungarian Translation	Zsolt Brechler
Russian Translation	kopejkin
Italian Translation	Victor
Thanks to	Monpelaud, Dave Mahadevan, Vit, Damiaan Peeters, Mike Dutch, Robert Pallot, Peter Garrety, Fred de Vries, Glyn Selwyn, Tom Grimes, Fredie Botha and Rod. And *everyone* who has sent me feedback. Please keep it coming!
Lines of source code	40466

www.harddiskanalyser.com

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