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Ishare

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Editorial

We would like to wholeheartedly thank our honorable Chairman, Secretary, Executive Director and Principal for their continuous encouragement and constant support for bringing out the magazine. We profoundly thank our Head of Department for encouraging and motivating us to lead the magazine a successful one right from the beginning. We are proud to release the golden jubilee 50th edition of Ishare. Ishare serves as a platform for updating and enhancing upcoming technologies in Information and Communication. We are grateful to all the contributors to this magazine so far. The magazine has been sent to almost 60 institutions in and around Tamilnadu. So far we have received feedbacks and appreciations from various institutions.

We cover up Wireless sensor and data mining. We have also provided tips and tricks regarding safety of our data and some extensions and applications. We are grateful to all the contributors to this magazine. We would be very pleased to receive your feedbacks. Please send your feed backs to ksrcas.ishare@gmail.com

By,

Editorial Board

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CONTENT

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WIRELESS SENSOR NETWORK

By:S.J.Naga Vishnu

I B.Sc Computer Science

A **wireless sensor network (WSN)** consists of spatially distributed autonomous sensors to monitor physical or environmental conditions, such as temperature, sound, vibration, pressure, motion or pollutants and to cooperatively pass their data through the network to a main location.

Wireless sensors and wireless sensor networks have come to the forefront of the scientific community
recently.

Sensor networks offer a powerful combination of distributed sensing, computing and communication.

The entire network worked simultaneously by using different dimensions of sensors and worked on the phenomenon of multi

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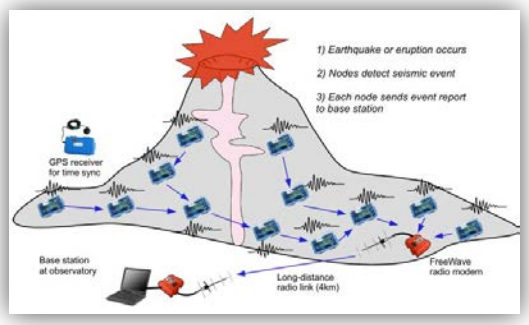
routing algorithm which is also termed as wireless ad hoc networking.

APPLICATIONS OF WIRELESS SENSORS

- MILITARY APPLICATIONS.
- ENVIRONMENTAL MONITORING.
- INDOOR ENVIRONMENTAL MONITORING
- AND EMERGENCY SERVICES.
- OUTDOOR MONITORING – APPLICATION TO TECOLOGY.
- OUTDOOR MONITORING – APPLICATIONS TO AGRICULTURE.
- HUMAN-CENTRIC APPLICATIONS.
- APPLICATIONS TO ROBOTICS.



FEATURES OF SENSOR NETWORKS

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It should be noted that sensor networks do share some commonalities with general ad hoc networks. Thus, protocol design for sensor networks must account for the properties of ad hoc networks, including the following.

- Lifetime constraints imposed by the limited energy supplies of the nodes in the network.
- Unreliable communication due to the wireless medium.
- Need for self-configuration, requiring little or no human intervention.
- While traditional ad hoc networks consist of network sizes on the order of 10s, sensor networks are expected to scale to sizes of 1000s.
- Sensor nodes are typically immobile, meaning that the mechanisms used in traditional ad hoc network protocols to deal with mobility may be unnecessary and overweight.
- Sensor nodes may be much smaller than nodes in traditional ad hoc networks (e.g., PDAs, laptop computers), with smaller batteries leading to shorter lifetimes, less computational power, and less memory.
- Additional services, such as location information, may be required in wireless sensor networks.
- Communication in sensor networks typically takes place in the form of very short packets, meaning that the relative

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overhead imposed at the different network layers becomes much more important.

Sensor networks often have a many-to-one traffic pattern, which leads to a “hot spot” problem.

Head-mounted display

By:Karthikeyan.R

I B.Sc Computer Science

A **head-mounted display** or **helmet mounted display**, both abbreviated **HMD**, is a display device, worn on the head or as part of a helmet, that has a small display optic in front of one (monocular HMD) or each eye (binocular HMD). HMDs differ in whether they can display just a computer generated image (CGI), show live images from the real world or a combination of both.

Most HMDs display only a computer-generated image, sometimes referred to as a virtual image

Some HMDs allow a CGI to be superimposed on a real-world view. This is sometimes referred to as augmented reality or mixed reality. Combining real-world view with CGI can be done by projecting the CGI through a partially reflective

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mirror and viewing the real world directly. This method is often called Optical See-Through. Combining real-world view with CGI can also be done electronically by accepting video from a camera and mixing it electronically with CGI. This method is often called Video See-Through.

Applications

- Aviation and Tactical / ground
- Engineering, science and medicine
- Gaming and video
- Sports
- Training and simulation

Peripherals

- The most rudimentary HMDs simply project an image or symbology on a wearer's visor or reticle. The image is not slaved to the real world (i.e., the image does not change based on the wearer's head position).
- More sophisticated HMDs incorporate a positioning system that tracks the wearer's head position and angle, so that the picture or symbology displayed is congruent with the outside world using see-through imagery.
- Head tracking – Slaving the imagery. Head-mounted displays may also be used with tracking sensors that allow changes of angle and orientation to be recorded. When such data is available in the system computer, it can be used to generate

.

the appropriate computer-generated imagery (CGI) for the angle-of-look at the particular time. This allows the user to "look around" a virtual reality environment simply by moving the head without the need for a separate controller to change the angle of the imagery. In radio-based systems (compared to wires), the wearer may move about within the tracking limits of the system.

- Eye tracking – Eye trackers measure the point of gaze, allowing a computer to sense where the user is looking. This information is useful in a variety of contexts such as user interface navigation : by sensing the user's gaze, a computer can change the information displayed on a screen, bring additional details to attention, etc.
- Hand tracking - tracking hand movement from the perspective of the HMD allows natural interaction with content and a convenient game-play mechanism

Android 4.1, Jelly Bean: The world's most popular platform gets even better

D.Kavin Kumar II B.Sc.CS ©

Android 4.1, Jelly Bean, is the fastest and smoothest version of Android yet. Jelly Bean improves on the simplicity and beauty of Android 4.0, and introduces a new Google search experience on Android.

Fast & smooth

With buttery graphics and silky transitions. We put Android under a microscope, making everything

.

feel fast, fluid, and smooth. Moving between home screens and switching between apps is effortless, like turning pages in a book.

More reactive and uniform touch responses mean you can almost feel the pixels beneath as your finger moves across the screen. Jelly Bean makes your Android device even more responsive by boosting your device's CPU instantly when you touch the screen, and turns it down when you don't need it to improve battery life.

Simple, beautiful and beyond smart

- Expandable, actionable notifications.
- Widgets work like magic.
- Seamlessly take and share photos.
- A smarter keyboard.
- Accessibility.
- Android Beam.
- A new look for Search.
- Voice Search.

The operating system follows in the path of its predecessors and allows smartphone makers to modify software to best suit their handset designs. Since it's an open-source platform, modifications are easily made and, in many cases, deliver much-needed improvements. Even so, out-of-the-box, Jelly Bean appears to be a winner. From a new way of handling notifications to improved performance, the operating system seems to be one that can do a much better job than its

.

predecessors in competing with Apple's own iOS. In essence, Jelly Bean is Google's answer to iOS 6, an operating system that Apple says will launch this fall. Android customers will be happy to hear, though, that Jelly Bean is launching in mid-July on a host of products. It'll also be rolled out to select Android 4.0-based devices. In other words, Jelly Bean is coming soon.

DATA MINING IN BIOINFORMATICS

By:DineshKumar.M

I B.Sc Computer Science

Bioinformatics is the computer-assisted data management discipline that helps us gather, analyze, and represent biological information in order to understand life's processes.

Bioinformatics is conceptualizing **biology** in terms of molecules(in the sense of physical-chemistry) and then applying **"informatics"** techniques(derived from disciplines such as applied math, CS, and statistics) to understand and organize the information associatedwith these molecules, on a large-scale.

wherebiology meets computer science?

Biology is the youngest of the natural sciences. When its collected information reaches a critical density, a natural science progresses from information gathering to information

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processing. Combining cold silicon and hot protoplasm may constitute a marriage of opposites, but this union could produce genetics research prodigies.

These days biologists use computers routinely to assist with many activities, including

- Biomolecular sequence alignment,
- Assembly of DNA pieces,
- Multivariate analysis of large-scale gene expressions, and
- Metabolic pathway analysis.

Currently, the most successful uses of computers in biology are comparative sequence analysis and in silico cloning- the process of using a computer search of existing databases to clone a gene.

Need for data mining in bioinformatics

- The growth of curve of biological information database follows an exponential curve that closely mimics Moore's law - doubling every 18 months or so.
- By helping researchers process this vast collection of data, C*omputer science* can assist in dispersing this information storm.
- More than 12,000,000 biological abstracts are lying for information extraction, and the amount is still updating.
- The biopharmaceutical industry is generating more chemical and biological screening data than it knows what to do with or how best to handle. As a result, deciding

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which target and lead compound to develop further is often a long and arduous task.

- Medical data has increased dramatically
- Manual analysis is not adequate
- The traditional data analysis methods are not adequate to deal with enormous data flow. Data mining is necessary.
- Comprehensive pre-processing facilities are included
- The generated rules were simple to understand
- In the medical domain primary objective was explanation rather than prediction
- Medical databases typically have a high proportion of missing values. The data mining softwares can efficiently handle the missing values.

Symbian vs Android: app for app comparison

By:NaveenKumar.S

II B.Sc Computer Science

According to the Android Market itself, are the top 20 'paid' applications (and ignoring any temporary date-specific anomalies, such as 2012 celebration novelties).

No.	Android application	Purpose	Notes and Symbian equivalents?
1	**SwiftKey X**	Keyboard replacement, intelligent correction of	The built-in keyboard corrections are adequate in

.

		phrases	Symbian, but stop short of the power of SwiftKey X. Still, this is very much a power user function, most people will be fine with simple spelling and basic grammar correction, built into Symbian^3 onwards.
2	**Beautiful Widgets**	Eye-candy-heavy clock/date/weather widgets/controls, etc	Accuweather is the best known Symbian homescreen weather widget, though SPB Weather is more informative and better, in my opinion. And there are plenty of clock styles, depending on the theme you choose to install. A case of Symbian's theme support side-stepping the need for ever prettier widgets?
3	**Camera ZOOM FX**	Camera app replacement, offers wide range of shooting modes, plus a range of post-processing effects	The Symbian (built-in) Camera application has always been very function rich, around the same level as Camera ZOOM FX. The idea of bolting on an 'FX' module to a camera app is

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			anathema to any real photographers, of course, though I can see why it is popular for casual users. Several similar 'FX' packages are available if needed, notably ShaderFX Photo, for example.
4	**HD Widgets**	More pretty clock and weather widgets, plus connectivity toggles	As above, for Beautiful Widgets. Connectivity toggles aren't really something Symbian 'does', though there's the connectivity shortcuts top right on the homescreen, plus there are built-in Wi-fi scan widgets and I use an explicit shortcut to 'Bluetooth' on my homescreen.
5	**Paper Camera**	Real time video camera edge enhancment and colour effects	Nothing comes to mind from the Symbian world to replicate this undoubted gimmick. Video snob, me?
6	**Power AMP**	Music player with EQ control and skins	Symbian's built-in Music player includes an Equaliser, with the third party smartEQ

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			stepping in if you want to create custom EQ. Although Music player can't be 'skinned' as such, different themes can significantly change its aesthetics.
7	**Titanium Backup PRO**	'Ultimate' backup and fiddling tool, with awareness of 'rooted' devices and custom ROMs	Symbian includes a complete system disk backup function to memory card (on supporting devices) - otherwise it's down to Nokia Suite backup if you want to restore a device 'as-is'. Although there's a small 'rooting'/custom ROM scene on Symbian, it's both very technical and generally frowned upon. Generally though, getting a Symbian device back as you want it after (say) a hard reset is more work than on other platforms.
8	**SoundHound**	Music recognition utility, works from recorded music or even from hummed tunes	SoundHound is also available for Symbian, plus Shazam does music recognition very well, albeit

.

			without lyric support or 'humming' support.
9	**TuneIn Radio Pro**	Internet radio client	Nokia Internet Radio is available for free and comparable in coverage, even if not as pretty.
10	**ADWLauncher EX**	Homescreen replacement, widget and shortcut system	Several Symbian front-ends are available for anyone who doesn't like the standard homescreens: SPB Shell 3D is the best known and most polished.
11	**ROM Manager**	Custom firmware flasher/manager, Android users seem to love their custom firmwares!	No direct equivalent, no need? Symbian's app menu, themes, widgets and shortcuts already provide a massive amount of customisation.
12	**Root Explorer**	File manager with basic viewers	Symbian comes with a basic file manager that can launch relevant viewer apps - the third party X-Plore is good for people who want to poke into more corners and go to a

.

			lower level.
13	**MyBackup Pro**	Another backup manager	As above for Titanium Backup PRO
14	**Documents To Go**	Office editing suite	Some Symbian phones (e.g. E6, E7, N8) come with Quickoffice in full editing mode; all others have it in viewer mode by default and there's an 'upgrade' fee to unlock editing. Either way, the functionality is all built-in, and often free.
15	**exPDF Reader**	Acrobat PDF reader with note taking and read-back functions	Symbian includes a basic PDF viewer and there are some good third party alternatives (e.f. PDF Eagle), though none with these extra noting and playback functions.
16	**SketchBook Mobile**	Professional grade drawing	All drawing and painting utilities on Symbian are novelties compared to this. Though you have to wonder who actually sits down at *any* small-screened handheld

.

			device for hours to create genuine artwork...
17	**JuiceDefender Plus**	Battery-saving, power-controlling utility	It's tempting to say that Symbian is efficient enough not to need something like this, but in reality many of the same issues hit Symbian phones (e.g. weak 3G signal, GPS left on by mistake). If you don't want to run in 'power saving' mode, which is built in, there's the third party utility Advanced Battery Saver, which works in similar manner to JuiceDefender Plus.
18	**Endomondo Sports Tracker Pro**	Tracks location, timing, exercise statistics	Sports Tracker on Symbian predated this entire genre of app, and it's still around today, updated and kept current - and free.
19	**SlideIT Keyboard**	Slide fingers from letter to letter rather than tapping on them	This is a clone of Swype, the original sliding keyboard system. Swype is fully available, and free, for Symbian.

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20	**Anti-Virus Pro**	As it sounds - malware is fairly easy to inject into the Android Market, though culprits get stamped on and removed withi days.	I'm not entirely convinced by the need for this on Android, if a little restraint is shown in downloading - it's even less needed on Symbian, where application requirements (e.g. calling out) are either clearly shown at install time or handled by proper digital signing (and checking).

Repairing Broken Files in Windows

By:SathiyaMoorthi.G

I B.Sc Computer Science

This article gives information about how to repair broken files

Files on Windows are, sometimes, tough to keep intact in their original form and people use many tools like file optimizers, antivirus applications and disk repair tools to safeguard them. No matter how cautious one is, accidents happen.

A virus outbreak on your system can ruin your computer in ways you can’t even imagine, one of the common side effects being a damaged file system. A good antivirus may help you

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recover your operating system but what about the important files that were damaged by the outbreak? Not only a virus outbreak, things like network failure and unsecure USB removal while the file operation is in process, and even an unexpected power failure can damage your files, leaving them completely unusable

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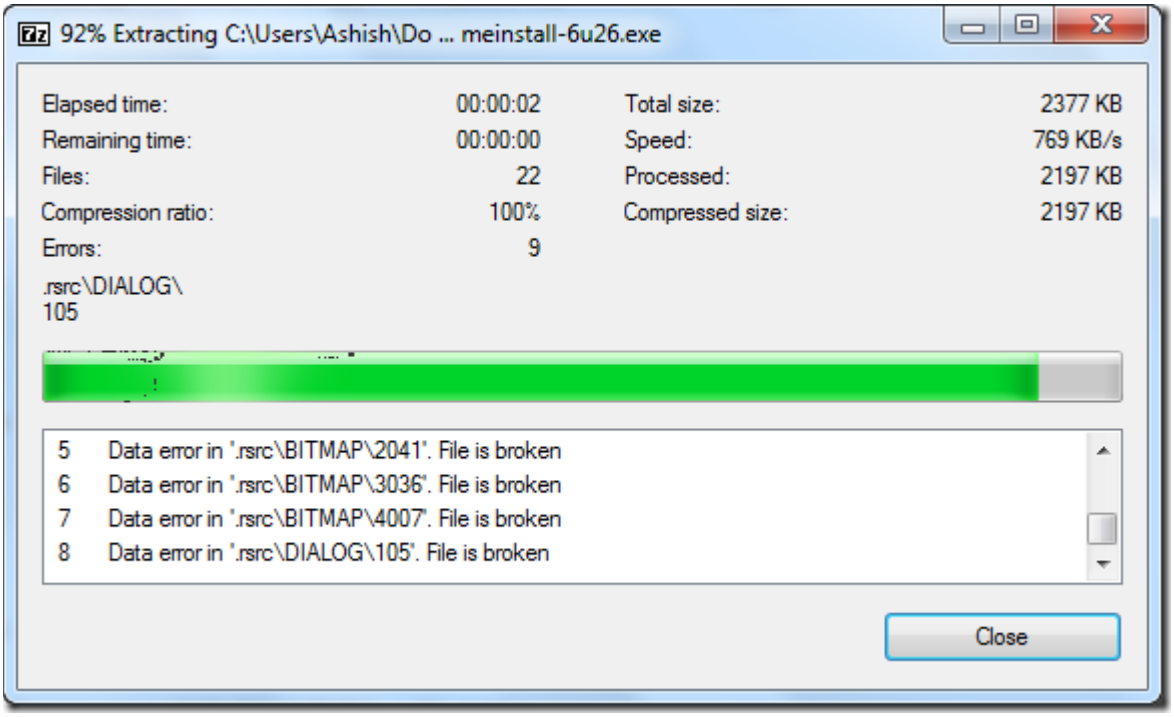

These errors aren't that uncommon in everyday life and unfortunately Windows does not provide a tool to recover of these files, not even the bits and pieces. Thanks to a third-party software called **File Repair** (thanks Robert for the tip!) we can now fix most of the corrupted files with minimum possible effort.

File Repair is a powerful application to repair corrupted files in Windows. It's very easy to use and master. To start fixing a

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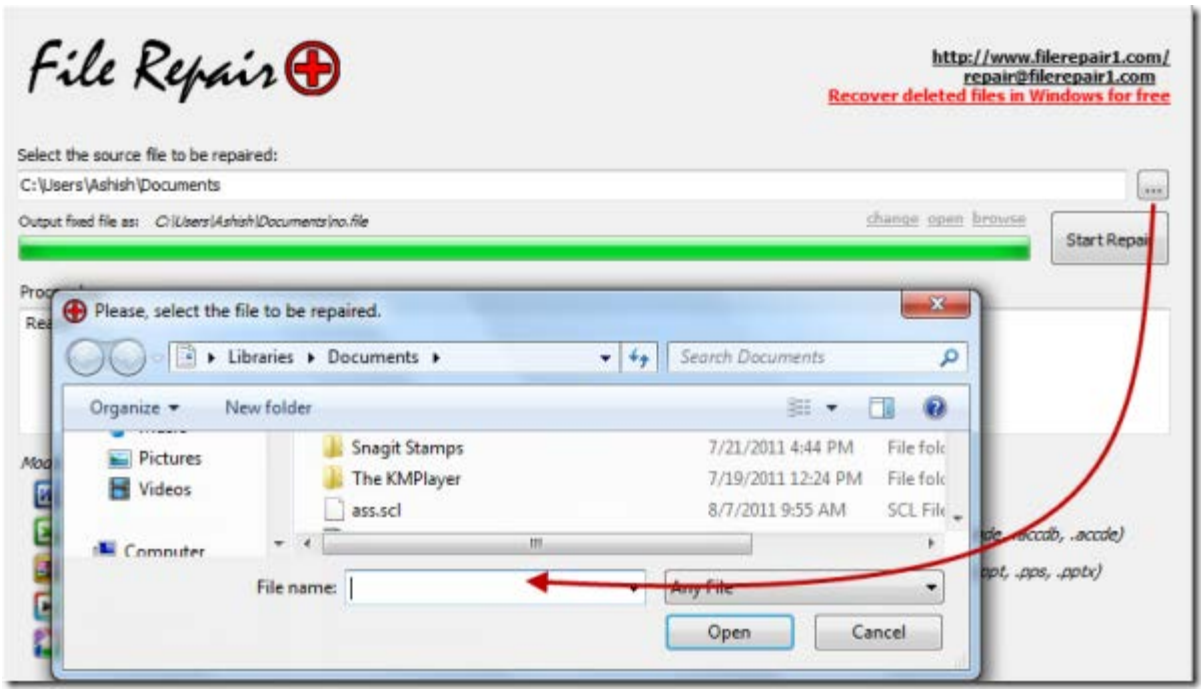
file, first download, install and run the application. Import your corrupted files by pressing the button with three dots (…) and, start the repair process.



The application then scans the damaged file and extracts maximum data from it to a new usable file in the same directory. The tool works flawlessly on Word documents, Excel spreadsheets, Zip or RAR archives, images and videos , PDF documents and Access databases.

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The program can fix errors such as unrecognizable file format, file checksum failure, out of memory, or low system resources and unexpected end of file errors.

My Verdict File Repair is an amazing freeware to try and recover corrupted files but it may fail at times. Again, even if you succeed in de-corrupting a file, it's uncertain that it will be able to solve your purpose. However, if the file is too important and you cannot afford to loose it, you can send your corrupted file as an email attachment to the developers. If the luck is on your side you will get a reply from their analyst within 24 hours.

LIST OF WEB BROWSERS AND INTERNET USERS

By:S.V.Vetrivel

II B.Sc Computer Science

The table contains list of web browsers by year of release of major version, in chronological order, with the approximate number of worldwide Internet users in millions. Note that Internet user data is related to the entire market, not the versions released in that year. The increased growth of the Internet in the 1990s and 2000s means that current browsers with small market shares have more total users than the entire market early on.

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Year	Web browsers	Internet users (in millions)
1991	WorldWideWeb (Nexus)	4
1992	ViolaWWW, Erwise, MidasWWW, MacWWW (Samba)	7
1993	Mosaic, Cello, Lynx 2.0, Arena, AMosaic 1.0	10
1994	IBM WebExplorer, Netscape Navigator, SlipKnot 1.0, MacWeb, IBrowse, Agora (Argo), Minuet	21
1995	Internet Explorer 1, Netscape Navigator 2.0, OmniWeb, UdiWWW, Internet Explorer 2, Grail	16-40
1996	Arachne 1.0, Internet Explorer 3.0, Netscape Navigator 3.0, Opera 2.0, PowerBrowser 1.5, Cyberdog, Amaya 0.9, AWeb, Voyager	36-74
1997	Internet Explorer 4.0, Netscape Navigator 4.0, Netscape Communicator 4.0, Opera 3.0,Amaya 1.0	70-119
1998	iCab, Mozilla	147-186
1999	Amaya 2.0, Mozilla M3, Internet Explorer 5.0	248-279

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2000	Konqueror, Netscape 6, Opera 4, Opera 5, K-Meleon 0.2, Amaya 3.0, Amaya 4.0	361-393
2001	Internet Explorer 6, Galeon 1.0, Opera 6, Amaya 5.0	513-494
2002	Netscape 7, Mozilla 1.0, Phoenix 0.1, Links 2.0, Amaya 6.0, Amaya 7.0	587-673
2003	Opera 7, Safari 1.0, Epiphany 1.0, Amaya 8.0	719-783
2004	Firefox 1.0, Netscape Browser, OmniWeb 5.0	817-909
2005	Safari 2.0, Netscape Browser 8.0, Opera 8, Epiphany1.8, Amaya 9.0, AOL Explorer1.0, Maxthon 1.0, Shiira 1.0	1018-1021
2006	SeaMonkey 1.0, K-Meleon 1.0, Galeon 2.0, Camino 1.0, Firefox 2.0, Avant 11, iCab 3, Opera 9, Internet Explorer 7, Sputnik	1093-1146
2007	Maxthon 2.0, Netscape Navigator 9, NetSurf 1.0, Flock 1.0, Safari 3.0, Conkeror	1319-1357
2008	Konqueror 4, Safari 3.1, Opera 9.5, Firefox 3, Amaya 10.0, Flock 2, Chrome 1, Amaya 11.0	1574-1586
2009	Internet Explorer 8, Chrome 2 - 3, Safari 4, Opera 10, SeaMonkey 2, Camino 2, Firefox 3.5	1802

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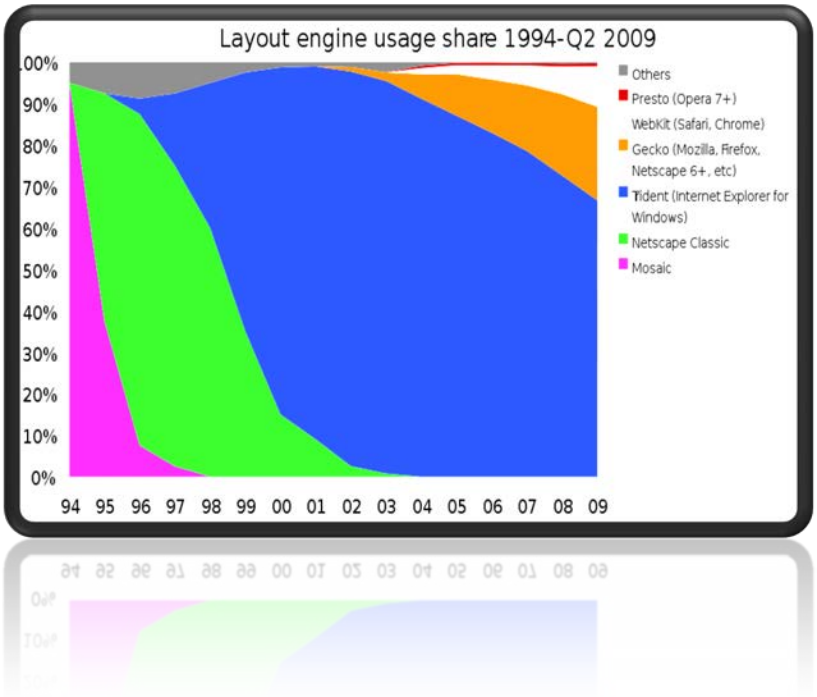
2010	K-Meleon 1.5.4, Firefox 3.6, Chrome 4 - 8, Opera 10.50, Safari 5, xxxterm, Opera 11	1971
2011	Chrome 9 - 16, Firefox 4 - 8, Internet Explorer 9, Maxthon 3.0, SeaMonkey 2.1 - 2.3, Opera 11.50, Safari 5.1	2095



COMMON FILE TYPES IN PC

S.Prema MCA M.Phil,Lecturer
Department of CS.KSRCAS

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If a file does not appear to have a file type extension, open the folder it is stored in and click on Tools from the menu, then Folder Options. Click on the View tab and un-tick Hide extensions for known file types.

- **.avi** - video file. Open with Windows Media Player
- **.bmp** - image file. Open with Paint
- **.cfg** - configuration file.
- **.dat** - data file.
- **.doc** - document file. Open with Word
- **.exe** - program file. Double-click to run
- **.gif** - image file. Open with Paint
- **.htm** - web document. Open with Internet Explorer
- **.html** - web document. Open with Internet Explorer
- **.ini** - text configuration file. Open with Notepad
- **.jpeg/jpg** - image file. Open with Paint
- **.mov** - movie file. Open with Quicktime
- **.mpeg/mpg** - video file. Open with QuickTime
- **.mp3** - audio file. Open with Windows Media Player
- **.pdf** - secure document file. Open with Adobe Reader

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- **.pps** - slideshow presentation. Open with PowerPoint
- **.ppt** - presentation file. Open with PowerPoint
- **.sys** - system file.
- **.txt** - text file. Open with Notepad
- **.wav** - audio file. Open with Windows Media Player
- **.xls** - spreadsheet file. Open with Excel

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Hide Your Files Inside JPEG File

By:GnanaSekaran.C

I B.Sc Computer Science

Every one of us try to hide our secret files from Eagle eyes.There are many ways to keep your files secret by encrypting,hiding or even changing its attributes. However most of them requires to install some sort of software on your computer, which could then be spotted by someone else.In order to accomplish this task, you will need to have either WinZip or WinRAR or any other compressing software installed on your computer. You can download either of these off the Internet and use them without having to pay anything. Here are the steps for creating your hidden files.

Step 1: Create a folder on one of your drivers, i.e**D:\New folder** and put all your files in that folder along with the image which you will be using to hide your files.

Step 2: Now select all the files you want to hide and create an archive using winrar or winzip(Do not select the pic).Now make a name for it.

Step 3: Now you have a rar or zip file like this.

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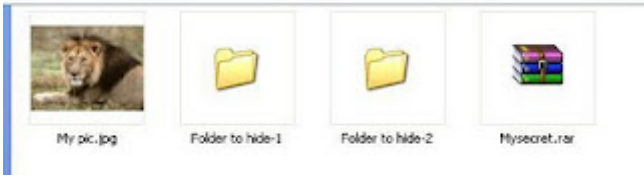
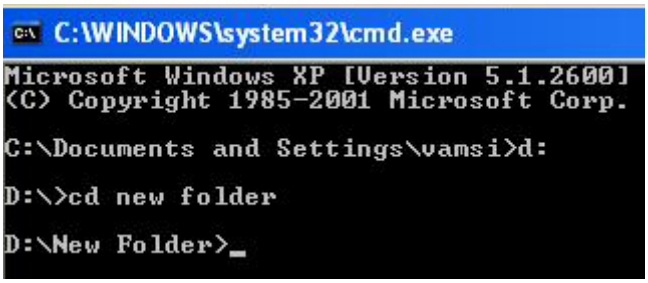
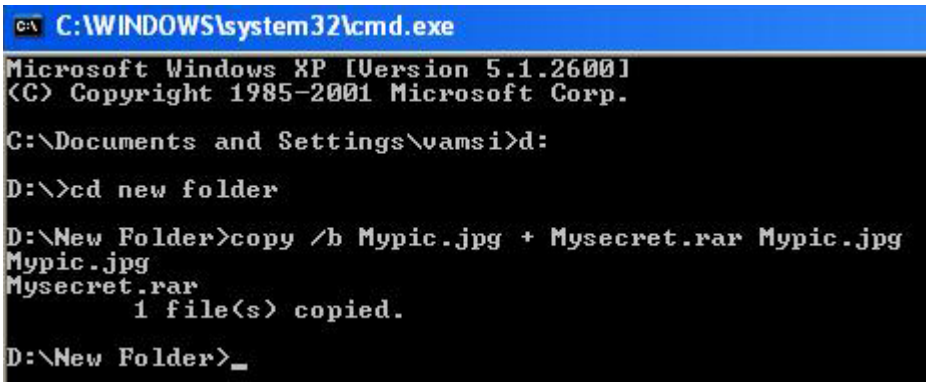


Step 4: Now open your Command prompt(**Start> Run > type "cmd">press "Enter"**).Now you can see the command prompt.Now go to the folder where it is located in your Harddrive as show in the image.



Step 5: Now type in the following line: "**copy /b Mypic.JPG + Mysecret.rar Mypic.jpg**" and press Enter. Do not use the quotes. You should get a response like below.



Now select the new image and **right click>openwith>winrar or**

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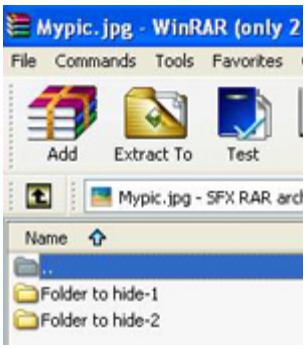
winzip.Either way, you'll see your hidden files show up that you can then extract out.



Add caption

That's it! That is all it takes to hide files inside JPG picture files! It's a great way simply because not many people know it's possible and no one even thinks about a picture as having to the ability to "hide" files.

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