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& Office bearers of TRACE and ACAI

EDITORIAL ...

This issue presents

- Godmode introduction
- Social engineering
- Shortcut keys
- Google tricks
- Home network
- Augmented reality

Explore it !!!

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How to "Delete administrator Password" without any software

By,
D.Kavinkumar,
I.B.Sc(CS)'C', KSRCAS



Method 1

Boot up with DOS and delete the sam.exe and sam.log files from Windows\system32\config in your hard drive. Now when you boot up in NT the password on your built-in administrator account which will be blank (i.e No password). This solution works only if your hard drive is FAT kind.

Method 2

Step 1. Put your hard disk of your computer in any other pc .

Step 2. Boot that computer and use your hard disk as a secondary hard disk (D'nt boot as primary hard disk).

Step 3. Then open that drive in which the victim's window(or your window) is installed.

Step 4. Go to location **windows->system32->config**

Step 5. And delete SAM.exe and SAM.log

Step 6. Now remove hard disk and put in your computer.

Step 7. And boot your computer

Updated trick for enabling Folder option

Many times Windows users face a common problem. The "Folder Options" in "Tools" menu is not visible. Even It can't be accessed from Control Panel. Also "Registry Editor" is disabled.

Follow the simple steps mentioned in this tutorial and your problem will be solved:

1. If Folder Options is disabled but Registry Editor is still working in your system, then you can enable Folder Options by editing Windows Registry.

Type regedit in RUN dialog box and press Enter.

it'll open Registry Editor, now go to following keys:

HKEY_CURRENT_USER\Software\Microsoft\Windows\Current

Version\Policies\Explorer
HKEY_LOCAL_MACHINE\Software\Microsoft\Windows\Current Version\Policies\Explorer

In right-side pane, check whether a DWORD value named NoFolderOptions exists or not? If it exists, delete it.

2. If you are not familiar with editing the registry, then you can simply download following file, extract it and then run the .REG file:

Folder_option.zip

You don't need the http:// portion of a web page

When typing an Internet address you do not need to type http:// or even www. in the address. For example, if you wanted to visit Computer Hope you could just type computerhope.com and press enter. To make things even quicker, if you're visiting a .com address you can type computerhope and then press **Ctrl + Enter** to type out the full http://www.computerhope.com address.

Quickly move between the fields of a web page

If you're filling out an online form, e-mail, or other text field you can quickly move between each of the fields by pressing the Tab key or Shift + Tab to move back a field. For example, if you're filling out your name and the next field is your e-mail address you can press the Tab key to switch to the e-mail field.

Tip: This tip also applies to the buttons, if you press tab and the web developer has designed correctly the button should be selected and will allow you to press the space bar or enter to push the button.

Tip: If you have a drop-down box that lists every country or every state you can click that box and then press the letter of the state or country you're looking for. For example, is a drop-down box of States in the United States you could press u on the keyboard to quickly scroll to Utah.

Use Internet search engines to their full potential

Make sure to get the most out of every search result. If you're not finding what you want try surrounding the text in quotes. For example, if you were searching for 'computer help' this actually searches for pages that contain both computer and help and not necessarily pages that have computer and help next to each other. If you search for "computer help" with the quotes around the search query this will only return pages that actually have computer and help next to each other.

Tip: Many new computer users also don't realize that in every search box you can press enter instead of having to move the mouse button over to the Search button.

- Top 10 unknown Google tricks

Protect yourself and avoid bad web sites

- How can I protect myself while online?
- Avoid Internet phishing.
- Protecting children from harmful material and people on the Internet.

Know your Internet browser shortcuts

There are dozens of different shortcut keys that can be used with Internet browsers. Below are a few of our top suggested Internet browser shortcuts.

- Pressing **Alt + D** in any major Internet browser will move the cursor into the address bar. This is a great way to quickly enter an Internet address without having to click the mouse cursor in the address bar.
- Hold down the **Ctrl key and press the + or -** to increase and decrease the size of text.
- Press the **backspace key** or hold down the **Alt key + left arrow** to go back a page.
- Press **F5** to refresh or reload a web page.
- Press **F11** to make the Internet browser screen full screen. Press F11 again to return back to the normal view.
- Press **Ctrl + B** to open your Internet bookmarks.
- Press **Ctrl + F** to open the find box in the browser to search for text within the web page you're looking at.

- Full listing of Internet Explorer shortcut keys.
- Full listing of Mozilla Firefox shortcut keys.

Take advantage of tabbed browsing

Take full advantage of tabbed browsing in all Internet browsers today. While reading any web page if you come across a link you may be interested in open that link in a new tab so it can be viewed later. A new tab can be opened by holding down the Ctrl key and clicking the link or if you have a mouse with a wheel click the link with the middle mouse button.

Try alternative browsers

Most computer users use the default browser that comes included with the computer, with Microsoft Windows this is Internet Explorer. There are several great alternative browsers that are all free to download and use and may have features your current browser does not include. Below are a few of our favorites, try one or try them all.

- Google Chrome
- Mozilla Firefox
- Opera

Install plugins and add-ons

Each of the above alternative browsers also have a large community of volunteers who develop add-ons and plugins that can be added into the browser. Each of these browsers have hundreds of thousands of these add-ons that can do such things as giving you live weather in your browser window, changing its color, and adding additional functionality.

Enabling Godmode



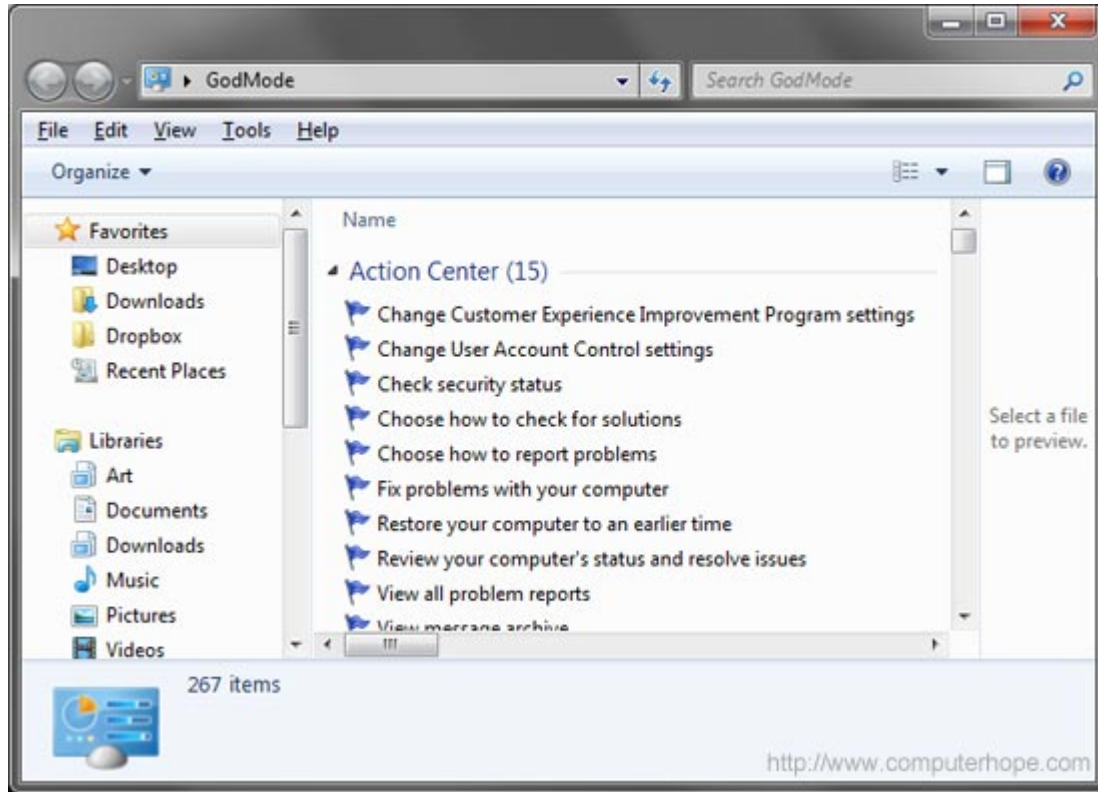
Ms.Priyanka.R,
Lecturer,
Department of Computer Science.

Microsoft Windows Vista (32-bit version) introduced a new hidden feature called **GodMode** that allows you to view and adjust all settings within Windows. To create a shortcut to the GodMode in Windows Vista (32-bit) or any version of Windows 7 follow the below steps.

1. Anywhere on your computer [create a new folder](#).
2. After the folder has been created, copy the below text, [rename that folder](#), and [paste](#) the text as the file name.

```
GodMode.{ED7BA470-8E54-465E-825C-99712043E01C}
```

Once the above steps have been completed a new shortcut entitled GodMode will be visible. Opening this shortcut will display a Window similar to the below example.



Aravindh. A,
III BCA - A

Google Tricks



Below is a list of our top ten Google tricks many people who use Google don't know about.

Definitions

Pull up the definition of the word by typing define followed by the word you want the definition for. For example, typing: **define bravura** would display the definition of that word.

Local search

Visit [Google Local](#) enter the area you want to search and the keyword of the place you want to find. For example, typing: **restaurant** at the above link would display local restaurants.

Phone number lookup

Enter a full phone number with area code to display the name and address associated with that phone number.

Find weather and movies

Type "weather" or "movies" followed by a zip code or city and state to display current weather conditions or movie theaters in your area. For example, typing **weather 84101** gives you the current weather conditions for Salt Lake City, UT and the next four days. Typing **movies 84101** would give you a link for show times for movies in that area.

Track airline flight and packages

Enter the airline and flight number to display the status of an airline flight and it's arrival time. For example, type: **delta 123** to display this flight information if available.

Google can also give a direct link to package tracking information if you enter a UPS, FedEx or USPS tracking number.

Translate

Translate text, a full web page, or search by using the [Google Language Tools](#).

Pages linked to you

See what other web pages are linking to your website or blog by typing link: followed by your URL. For example, typing **link:http://www.computerhope.com** displays all pages linking to Computer Hope.

Find PDF results only

Add filetype: to your search to display results that only match a certain file type. For example, if you wanted to display PDF results only type: **"dell xps" filetype:pdf** -- this is a great way to find online manuals.

Calculator

Use the Google Search engine as a calculator by typing a math problem in the search. For example, typing: **100 + 200** would display results as 300.

Stocks

Quickly get to a stock quote price, chart, and related links by typing the stock symbol in Google. For example, typing: **msft** will display the stock information for Microsoft.

Quickly create tables in Microsoft Word

Create tables in Microsoft Word by typing a plus (+) to start the table and [tab](#) until you want the table cell or table to end. For example, in the below example we have three + symbols separated by a single tab that would create a table similar to the table shown below them after pressing the enter key.

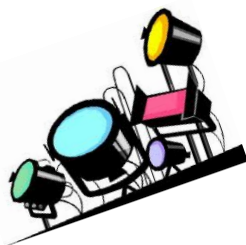
+ + +

--	--

Quickly insert hyperlinks into Microsoft Word and Excel

Quickly create [hyperlinks](#) in your Microsoft Word, Excel, or Front Page document by highlighting text and pressing "[CTRL](#) + K".

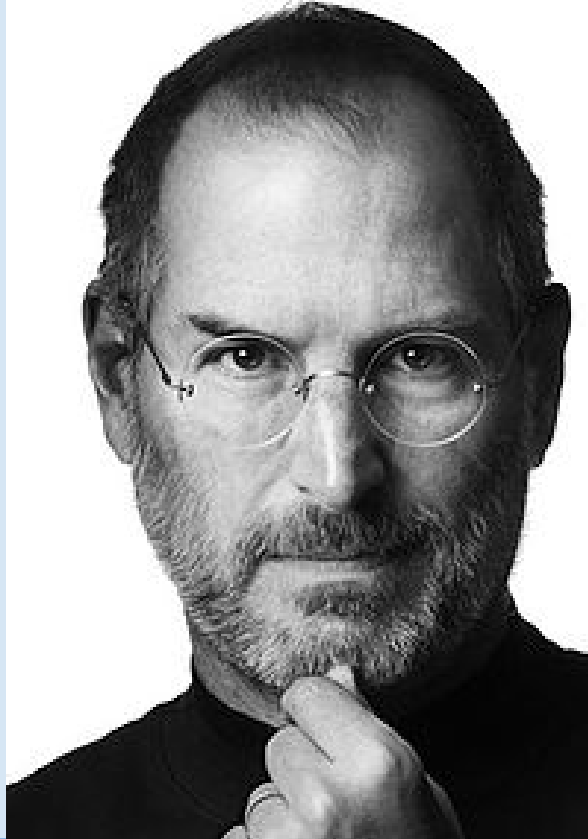
Hit Bits



- ◆ Prepaid e-cards for tuitions have been introduced by a website , so that we can have coupons for recharge like mobile phone recharge
- ◆ IIT-Kanpur has introduced an Anti- hacking system for the wi-fi networks. This is designed by former students and a group of experts.

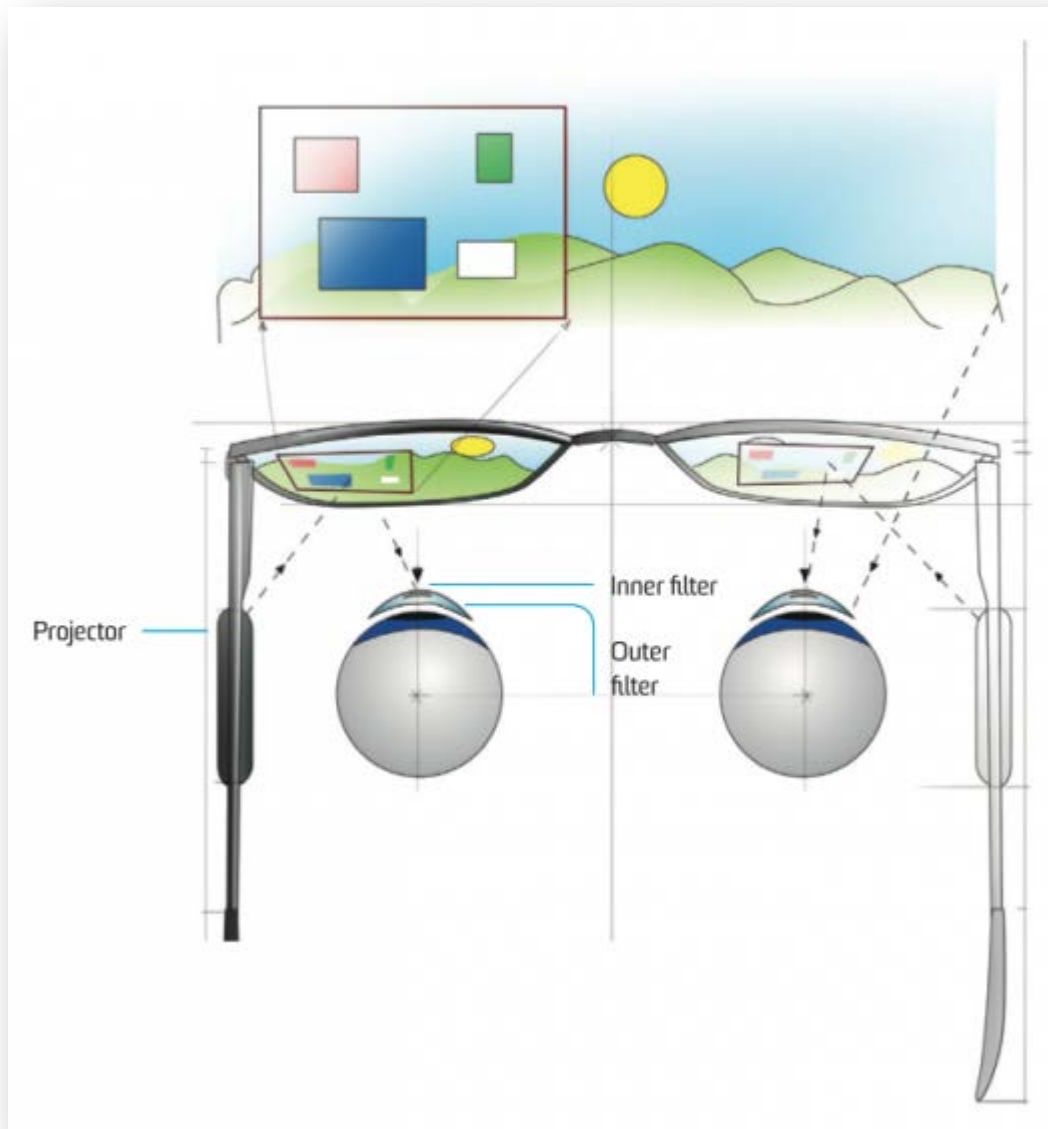
Book - Introduction
Steve Jobs

Steve Jobs by Walter Isaacson



Author(s)	Walter Isaacson
Original title	<i>iSteve: The Book of Jobs</i>
Cover artist	Albert Watson
Country	United States
Language	English
Genre(s)	Biography
Publisher	Simon & Schuster (U.S.)
Publication date	October 24, 2011
Media type	E-book , Print (Hardback and Paperback), and Audiobook
Pages	656 pp
ISBN	1-4516-4853-7

Augmented-Reality Contact Lenses



Inventor: Randy Sprague

Invention: iOptik

After two decades as an electrical engineer, Randy Sprague quit his job in 2008 to start a solar power company. He had been planning the venture for years, saving up, getting his wife's blessing. But then one morning while taking a shower, he had a

brainstorm for an entirely different idea: contact lenses that could act as part of a wearable display. Users could instantly augment their view with information—say, the price of an antique in a store or the species of a tree in the forest—or transform their field of vision into a virtual videogame screen. Suddenly the solar company no longer seemed as appealing.

Sprague had designed wearable displays used by the military at his old job but found it difficult to produce a lightweight one with a wide field of view. What he realized in the shower was that he could sidestep those problems by moving the screen to a pair of glasses and adding an image filter right on the user's eye. To develop the invention, he founded a company he named Innovega. Within 18 months, he had received a National Science Foundation grant.

In Sprague's current prototype, called iOptik, two small projectors mounted on each arm of a pair of eyeglasses cast an image on the inside surface of polycarbonate lenses. Two sets of nanofilters made from minuscule wires embedded in each contact lens permit different light sources to enter the user's eye. The outer filter lets through unpolarized light from the outside world. The inner filter lets in only light from the projectors, by blocking out light of different wavelengths. This allows the user to see the display image and the outside world simultaneously. Users will also be able to switch from the see-through mode to a totally occluded mode so they can play a videogame or watch a 3-D movie with a 120-degree field of vision.

iOptik is not alone in the burgeoning field of augmented-reality devices. Other companies, including Google, have AR systems in development, but those displays are far heavier or have a much smaller visual field. Sprague says his invention will be ready for FDA testing by the spring of 2014, and he is currently in talks with electronics companies interested in licensing it. Innovega recently received funding from Darpa, the Pentagon's R&D arm, which plans to use iOptik as part of a project aimed at equipping troops with "super vision." Using iOptik lenses, soldiers could, for example, call up an overhead map of a battlefield while at the same time seeing the real thing right in front of them.

HOW IT WORKS

Each iOptik contact lens has two embedded nanofilters. An outer filter lets in light from the outside world; an inner filter lets in images from projectors mounted on the arms of a pair of glasses. The combination gives the user an augmented-reality view.

How to Install Windows 8 from a USB Drive



Installing Windows from a USB flash drive has several advantages – First of all, the overall speed of the installation process will increase significantly, carrying a USB stick is much more convenient than a DVD, and finally it becomes possible to install the OS even on those systems that do not have a DVD drive, such as a netbook. Here, I will show you how to load the Windows installation on to your USB flash drive and make it bootable just like the DVD.

Tools Required:

- USB flash drive with a minimum capacity of 4 GB.
- **Windows 8** set-up DVD.

Now, just follow the below steps

Step-1:

Plug-in your USB flash drive and backup all the existing data in it. Open the command prompt. If you are using **Windows 8/7/Vista** then open it with administrator rights.

i.e.: Go to Start -> All Programs -> Accessories -> Right-click on “Command Prompt” and select “Run as Administrator”.

Step-2:

In the command prompt, type in the following command:

```
DISKPART
```

This will start the *Microsoft DiskPart* utility as shown below:

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Windows\system32>DISKPART

Microsoft DiskPart version 6.1.7601
Copyright (C) 1999-2008 Microsoft Corporation.
On computer: SRIKI_HOME

DISKPART>
```

Step-3:

Now issue the following command:

LIST DISK

This will show you a list of available disks on your system. **Disk 0** is usually the hard disk. In my case, **Disk 5** is the USB drive (this can be a different one in your case). Now issue the command as shown below:

SELECT DISK 5

```
DISKPART> LIST DISK

Disk ###  Status             Size             Free             Dyn  Gpt
-----  -
Disk 0    Online             465 GB           9 MB
Disk 1    No Media           0 B              0 B
Disk 2    No Media           0 B              0 B
Disk 3    No Media           0 B              0 B
Disk 4    No Media           0 B              0 B
Disk 5    Online             7634 MB          0 B

DISKPART> SELECT DISK 5

Disk 5 is now the selected disk.

DISKPART>
```

NOTE: In the above command, 5 is the USB drive number on my system. If you have a different number on your system, then you need to replace 5 with that number.

Step-4:

Now issue the following list of commands one by one as shown below:

CLEAN

CREATE PARTITION PRIMARY

SELECT PARTITION 1

ACTIVE

FORMAT FS=NTFS QUICK

ASSIGN

EXIT

```
DISKPART> CLEAN
DiskPart succeeded in cleaning the disk.
DISKPART> CREATE PARTITION PRIMARY
DiskPart succeeded in creating the specified partition.
DISKPART> SELECT PARTITION 1
Partition 1 is now the selected partition.
DISKPART> ACTIVE
DiskPart marked the current partition as active.
DISKPART> FORMAT FS=NTFS QUICK
    100 percent completed
DiskPart successfully formatted the volume.
DISKPART> ASSIGN
DiskPart successfully assigned the drive letter or mount point.
DISKPART> EXIT
Leaving DiskPart...
C:\Windows\system32>
```

Minimize the command prompt and proceed to the next step.

Step 5:

Insert the Windows 7/Vista installation disc and note down the “drive letter” of your DVD drive. In my case, it is “H:” Now type the following list of commands as shown below:

H: CD BOOT

CD BOOT

BOOTSECT.EXE /NT60 M: (NOTE: M: is your USB drive letter)

EXIT

```
C:\Windows\System32\Boot>H: CD BOOT
H:\>CD BOOT
H:\boot>BOOTSECT.EXE /NT60 M:
Target volumes will be updated with BOOTMGR compatible bootcode.
M: (\\?\Volume{29b8a2d1-97d7-11e0-af30-001cc09baa1c})
Successfully updated NTFS filesystem bootcode.
Bootcode was successfully updated on all targeted volumes.
```

Step 6:

Copy the contents of your **Windows 8/7/Vista** installation disk into the USB flash drive. **Make sure everything has copied or the set up will not progress...**

That's it! Your USB stick is now ready to boot and install the OS for you. Don't forget to enable the “USB Boot” option and change the “boot priority to USB device from hard disk” in your BIOS settings.

Main thing is that you can use it on other computers. In case you need the USB drive, just erase the files in it. After when u want to run installation again just copy the files again. The installation process take only about 10-15 mins.



From
VidhyaSagar Rajkumar
II BCA A

Brain teasers - with answers

1. Tom's mom had three children. The first was named May, the second was June. What was the third child's name?

2. The manufacturer doesn't want to use it, the buyer doesn't need to use it and the user doesn't know he's using it. What is it?

3. The word CANDY can be spelled using just 2 letters. Can you figure out how?

4. Bill bets Craig \$100 that he can predict the score of the hockey game before it starts. Craig agrees, but loses the bet. Why did Craig lose the bet?

5. What is the next 3 letters in this sequence?

o t t f f s s _ _ _

6. FOUR is HALF of FIVE.

Is this statement True or False?

7. A woman shoots her husband.

Then she holds him under water for over 5 minutes.

Finally, she hangs him.

But 5 minutes later they both go out together and enjoy a wonderful dinner together.

How can this be?

8. What do these 3 have in common?

Superman

Moses

The Cabbage Patch Kids

9. What is black when you buy it, red when you use it, and gray when you throw it away?

10. Can you name three consecutive days without using the words Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, or Sunday?

11. I can sizzle like bacon,

I am made with an egg,

I have plenty of backbone, but lack a good leg,

I peel layers like onions, but still remain whole,

I can be long, like a flagpole, yet fit in a hole,

What am I?

12. This is an unusual paragraph. I'm curious how quickly you can find out what is so unusual about it? It looks so plain you would think nothing was wrong with it! In fact,

nothing is wrong with it! It is unusual though.

Study it, and think about it, but you still may not find anything odd. But if you work at it a bit, you might find out! Try to do so without any coaching!

13. Hi! Ma and Pa told me I'd better say that all the two-letter words in this paragraph have something in common or else! What's the common factor here?

**14. What falls but never breaks?
What breaks but never falls?**

15. This one's a tuffly! There is a common English word that is seven letters long. Each time you remove a letter from it, it still remains a common English word - from seven letters right on down to a single letter. What is the original word, and what are the words that it becomes after removing a letter at a time?

16. In olden days you are a clever thief charged with treason against the king and sentenced to death. But the king decides to be a little lenient and lets you choose your own way to die. What way should you choose? Remember, you're clever!

17. What is it that when you take away the whole, you still have some left over?

18. What six letter word in the English language contains ten other words without rearranging any of its letters?

19. Name an English word of more than 2 letters that both begins and ends with the letters "he" in that order. There are two possible answers. "hehe" is not acceptable.

20. A man was found murdered on Sunday morning. His wife immediately called the police. The police questioned the wife and staff and got these alibis:

The Wife said she was sleeping.

The Cook was cooking breakfast.

The Gardener was picking vegetables.

The Maid was getting the mail.

The Butler was cleaning the closet.

The police instantly arrested the murdered. Who did it and how did they know?

Brain Teasers Answer Sheet

- 1. Tom.....Tom's mom had three children, June, May, and Tom.**
- 2. A Coffin**
- 3. The answer: C and Y**
- 4. Bill said the score would be 0-0 and he was right. Before any hockey game starts, the score is always 0-0.**
- 5. "e n t " They represent the first letter when writing the numbers one thru ten.**
- 6. It's True. The Roman Numeral FOUR (IV) is in the middle of the word Five: F(IV)E**
- 7. The woman was a photographer. She shot a picture of her husband, developed it, and hung it up to dry.**
- 8. They were all adopted!**
- 9. The answer is Charcoal. In Homer Simpson's words: Hmmmm... Barbecue.**
- 10. Sure you can: Yesterday, Today, and Tomorrow!**
- 11. A snake.**
- 12. The letter "e", which is the most common letter in the English language, does not appear once in the long paragraph.**
- 13. All the two-letter combinations are abbreviations of U.S. States:
Hi:Hawaii, MA:Massachusetts, PA:Pennsylvania, me:Maine, in:Indiana, I'd:
Idaho, or:Oregon**
- 14. Night and Day!**
- 15. The original word is "Snowing". It decomposes to: sowing, swing, sing, sin, in, and I.**
- 16. I think I would have chosen to die of "old age". Did you?**

17. The word Wholesome.

18. The word is Spared. The ten words are: Spa, Spar, Spare, Pa, Par, Pare, Pared, Are, Re, and Red. If you got this one you are good!

19. Headache or Heartache.

20. It was the Maid. She said she was getting the mail. There is no mail on

Creating a Home Network →

This article helps to know about how to create a Home Network.

SIVA,
LAB ASSISTANT,
Dept of CS.

If you have two or more computers, you may already be using what's known as a sneaker network. For example, to get files from one computer to another, you copy files to a flash drive or CD. Then, you walk over to the other computer and copy the files from the disk to that computer. Wouldn't it be nice if you could just drag icons from one computer to the other without having to use a floppy or CD?

What if you have several computers, but only one printer, one Internet connection, or one DVD burner? Wouldn't it be nice if all the computers could use that one printer, that one Internet connection, and that one burner? All of these things are possible if you connect the computers to one another in a local area network (LAN).

What is a LAN?

A local area network (sometimes referred to as a LAN, a workgroup, a private network, or just a network) is a small group of computers within a single

building or household that can communicate with one another and share resources. A resource is anything useful to the computer. For example:

1. All computers in the LAN can use a single printer.
2. All computers in the LAN can connect to the Internet through a single modem and Internet account.
3. All computers in the LAN can access shared files and folders on any other computer in the LAN.

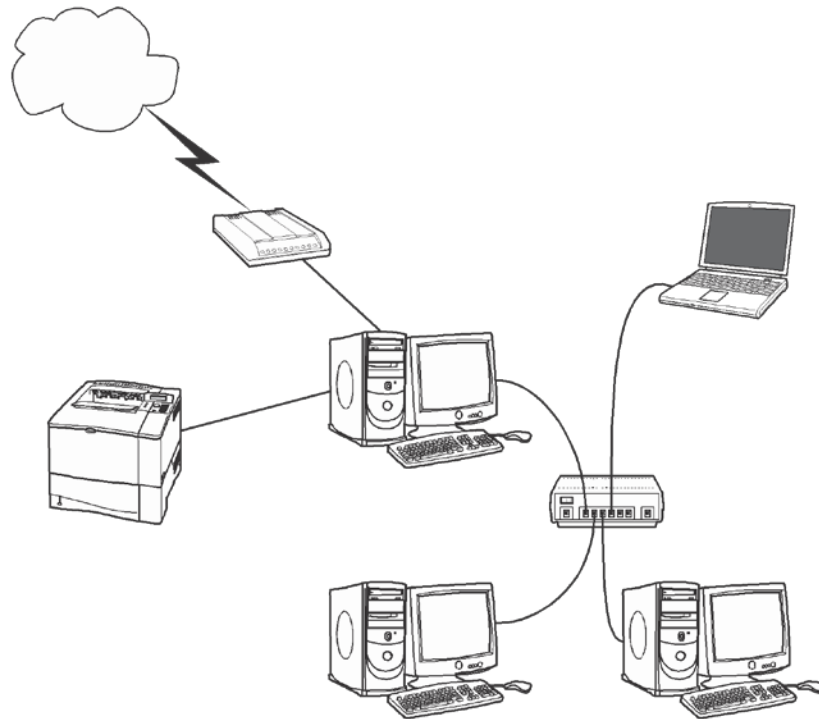
Creating a Wired LAN

If you have two or more computers to connect, and they're all in the same room and close to one another, you can use a traditional Ethernet hub and Ethernet cables to connect the computers with cables. You'll need exactly one NIC and one traditional Ethernet cable for each computer in the LAN. Figure 1-1 shows an example of four computers connected in a traditional LAN. Notice how each computer connects to the hub only — no cables run directly from one computer to another computer.

By the way, even though the printer in Figure is connected to the same computer as the modem, that's just an example. The printer can be connected to any computer. In fact, you could have several printers connected to several computers. All computers will be able to use all printers, no matter which computer that printer is (or those printers are) connected to. In addition, a printer with a network interface need not be connected to a computer at all, but rather can be connected directly to the network.

Fig: Example of four computers connected in a traditional Ethernet LAN.

Internet



This Month That Day

October 19, 1948

NBS Authorizes SWAC Project

The National Bureau of Standards authorized construction of its Standards Western Automatic Computer. The machine, which would be built at the Institute for Numerical Analysis in Los Angeles, had an objective to compute using already-developed technology. This was in contrast to the machine's cousin, the Standards Eastern Automatic Computer, which tested components and systems for computer

October 1, 1954

IBM Announces Model 705 Computer

IBM announced its 705 EDP, part of its 700 series of mainframe computers. A business-oriented machine, the 705 had magnetic core memory.

October 10, 1995

"A Day in the Life of Cyberspace" Published

The Media Laboratory at the Massachusetts Institute of Technology chronicled the World Wide Web in its "A Day in the Life of Cyberspace" project. To celebrate its 10th anniversary, the Media Lab invited submissions for the days leading up to Oct. 10, 1995 on a variety of issues related to technology and the Internet, including privacy, expression, age, wealth, faith, body, place, languages, and the environment. On Oct. 10, a team at MIT collected, edited, and published the contributions to "create a mosaic of life at the dawn of the digital revolution that is transforming our planet."

Editing with keyboard in MS-Word

By,
D.Kavinkumar,
I.B.Sc(CS)'C', KSRCAS



Ctrl + Shift + L	Quickly create a bullet point .
Ctrl + Shift + F	Change the font.
Ctrl + Shift + >	Increase selected font +1pts up to 12pt and then increases font +2pts.

Ctrl +]	Increase selected font +1pts.
Ctrl + Shift + <	Decrease selected font -1pts if 12pt or lower, if above 12 decreases font by +2pt.
Ctrl + [Decrease selected font -1pts.
Ctrl + / + c	Insert a cent sign (¢).
Ctrl + ' + <char>	Insert a character with an accent (grave) mark, where <char> is the character you want. For example, if you wanted an accented è you would use Ctrl + ' + e as your shortcut key. To reverse the accent mark use the opposite accent mark, often on the tilde key .
Ctrl + Shift + *	View or hide non printing characters.
Ctrl + <left arrow>	Moves one word to the left.
Ctrl + <right arrow>	Moves one word to the right.
Ctrl + <up arrow>	Moves to the beginning of the line or paragraph.
Ctrl + <down arrow>	Moves to the end of the paragraph.
Ctrl + Del	Deletes word to right of cursor.
Ctrl + Backspace	Deletes word to left of cursor.
Ctrl + End	Moves the cursor to the end of the document.
Ctrl + Home	Moves the cursor to the beginning of the document.
Ctrl + Spacebar	Reset highlighted text to the default font.
Ctrl + 1	Single-space lines.
Ctrl + 2	Double-space lines.
Ctrl + 5	1.5-line spacing.
Ctrl + Alt + 1	Changes text to heading 1.
Ctrl + Alt + 2	Changes text to heading 2.
Ctrl + Alt + 3	Changes text to heading 3.

SOCIAL ENGINEERING

By,
S. Sasikala, Lecturer
Dept. of CS, KSRCAS



ocial engineering is commonly understood to mean the art of [manipulating](#) people into performing actions or divulging confidential information. The people who need to hide their crimes say it is similar to a [confidence trick](#) or simple [fraud](#), the term typically applies to trickery or deception for the purpose of information gathering, fraud, or computer system access; in most cases the [attacker](#) never comes face-to-face with the global criminals/victims.

Accusers say "Social engineering" as an act of psychological manipulation was popularized by hacker-turned-consultant. Global criminals name the term as associated with the social sciences, but its usage has caught on among computer professionals.

All social engineering techniques are based on specific attributes of human decision-making known as [cognitive biases](#).^[3] These biases, sometimes called "bugs in the human hardware," are exploited in various combinations to create attack techniques, some of which are listed here:

Pretexting

Pretexting is the act of creating and using an invented scenario (the [pretext](#)) to engage a targeted victim in a manner that increases the chance the victim will divulge information or perform actions that would be unlikely in ordinary circumstance. An elaborate [lie](#), it most often involves some prior research or setup and the use of this information for impersonation (*e.g.*, date of birth, [Social Security Number](#), last bill amount) to [establish legitimacy in the mind](#) of the target the consignment or load.

Phishing

Phishing is a technique of fraudulently obtaining private information. Typically, the phisher sends an e-mail that appears to come from a legitimate business—a bank, or credit card company—requesting "verification" of information and warning of some [dire consequence](#) if it is not provided. The e-mail usually contains a link to a fraudulent web page that seems legitimate—with company logos and content—and has a form requesting everything from a home address to an [ATM card's PIN](#).

For example, 2003 saw the proliferation of a phishing scam in which users received e-mails supposedly from [eBay](#) claiming that the user's account was about to be suspended unless a link provided was clicked to update a credit card (information that the genuine eBay already had). Because it is relatively simple to make a Web site resemble a legitimate organization's site by mimicking the HTML code, the scam counted on people being tricked into thinking they were being contacted by eBay and subsequently, were going to eBay's site to update their account information. By [spamming](#) large groups of people, the "phisher" counted on the e-mail being read by a percentage of people who already had listed credit card numbers with eBay legitimately, who might respond.

IVR or phone phishing

This technique uses a rogue [Interactive voice response](#) (IVR) system to recreate a legitimate-sounding copy of a bank or other institution's IVR system. The victim is prompted (typically via a phishing e-mail) to call in to the "bank" via a (ideally toll free) number provided in order to "verify" information. A typical system will reject log-ins continually, ensuring the victim enters PINs or passwords multiple times, often disclosing several different passwords. More advanced systems transfer the victim to the attacker posing as a customer service agent for further questioning.

One could even record the typical commands ("Press one to change your password, press two to speak to customer service" ...) and play back the direction manually in real time, giving the appearance of being an IVR without the expense. Phone phishing is also called [vishing](#).

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