

# **Internet Fundamentals**



# Virtual Community

Introduction to Internet

# Outline



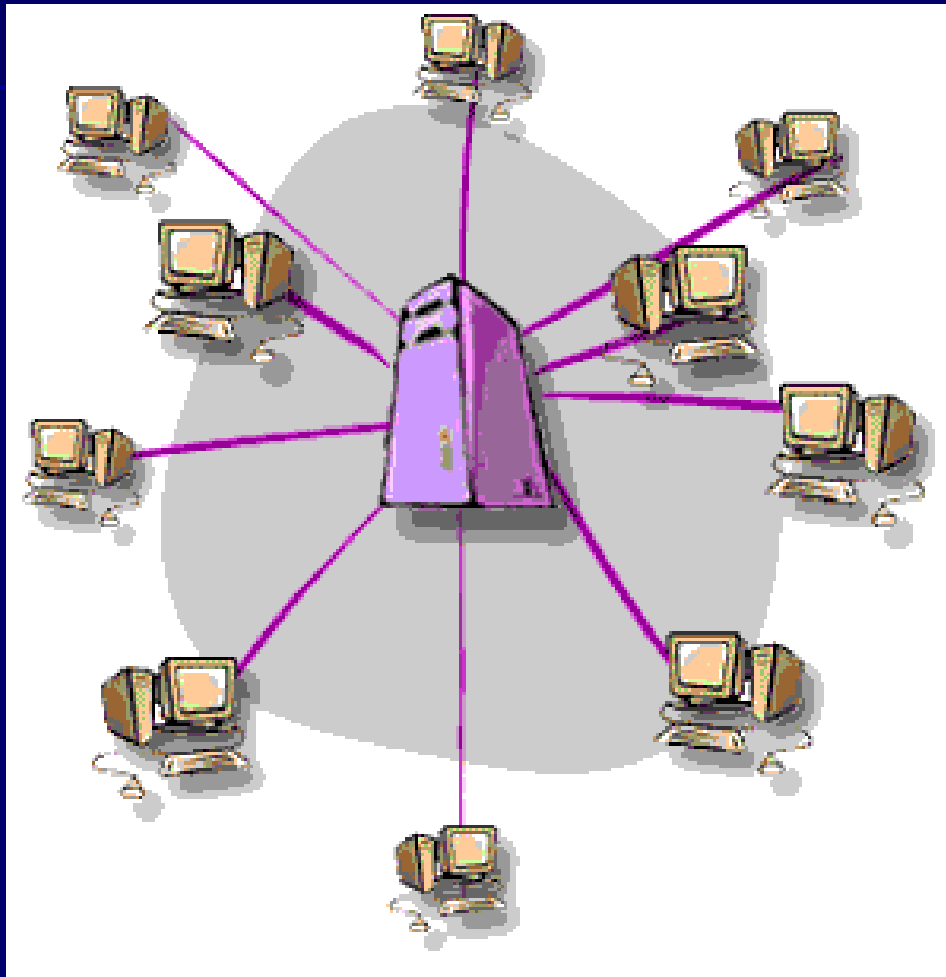
- Mailing list
- Instant Messaging (**IM**)
- Bulletin Boards
- Internet Relay Chat (**IRC**)
- Web-based Chat
- Multi-User Dungeon (**MUD**)
- Internet Telephony
- How do they work?

# What is mailing list?

- Uses a mail address for disseminating **newsletters**.
- More importantly, for disseminating **discussions**.
- A centrally maintained mailing list is desirable.
- This is typically implemented by a **mail reflector**.
- Those people on the mailing list are called the **subscribers**.
- We can easily create FREE mailing lists for :
  - Sharing files.
  - Keeping in touch with family or friends.
  - Discussion groups



# Mailing list illustration



Any questions?

■ Reference: [www.learnthenet.com](http://www.learnthenet.com)

# Mail Reflector

- An **e-mail reflector** is a program that performs the forwarding broadcaster of e-mail on the name of a discussion list.
- How it works?
  - One member of the discussion list sent an email to the list.
  - The email reflector receives the message and automatically forwards a copy of the email to each person on the discussion list.

# Subscription method (I)

- Historically, the Internet uses special addresses for administrating subscription requests.
- Such an address has the same name as the mailing reflector, but with the suffix **-request** added.
- For example,
- **`marsman-request@cse.cuhk.edu.hk`**
- The list maintainer must read the requests and edit the mailing list manually.

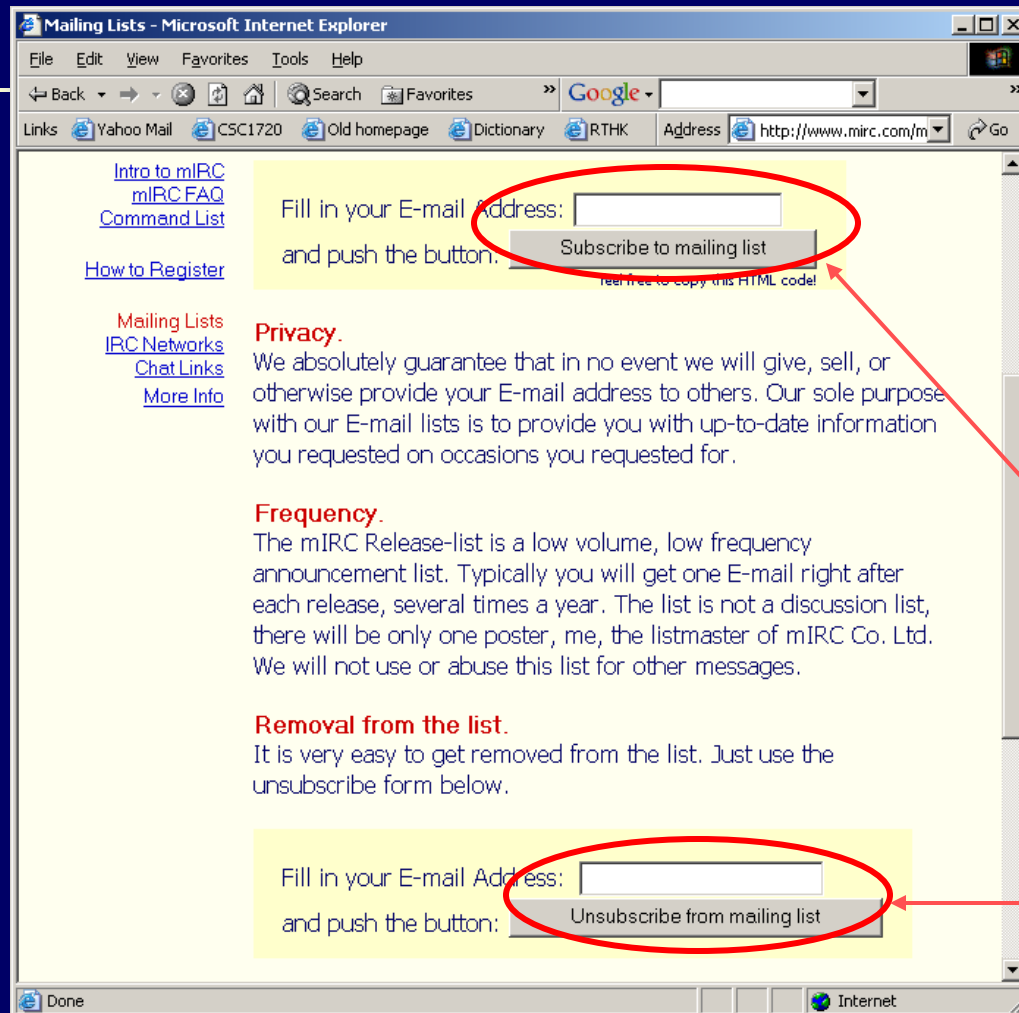
# Subscription method (II)

- Originally from BITNET.
- Maintain mailing list without human intervention.
- To subscribe, send a specially formatted message to a special address. For example:

To:	listserv@cse.cuhk.edu.hk
Subject:	(no subject)
Mail-body:	subscribe marsman Ray Cheung

- **QUESTION - How can listserv know your address?**
- To unsubscribe:
  - With listserv, unsubscribe is done by sending a mail with the following content:
  - **signoff marsman**

# Subscription method (III)



- Fill in your e-mail address via the WebPages.

Subscribe

Unsubscribe

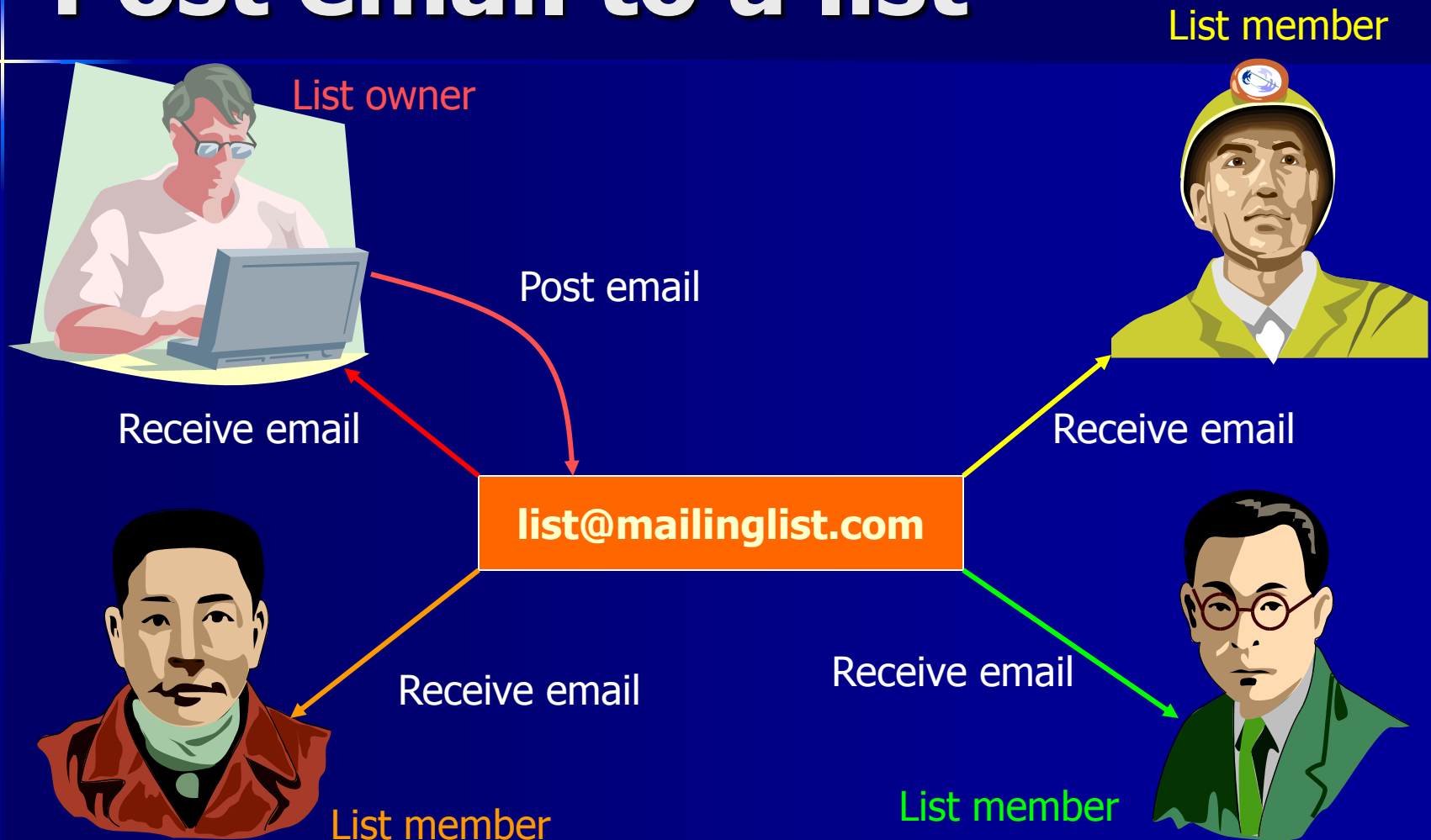
# How does it work?

## Subscribe a list



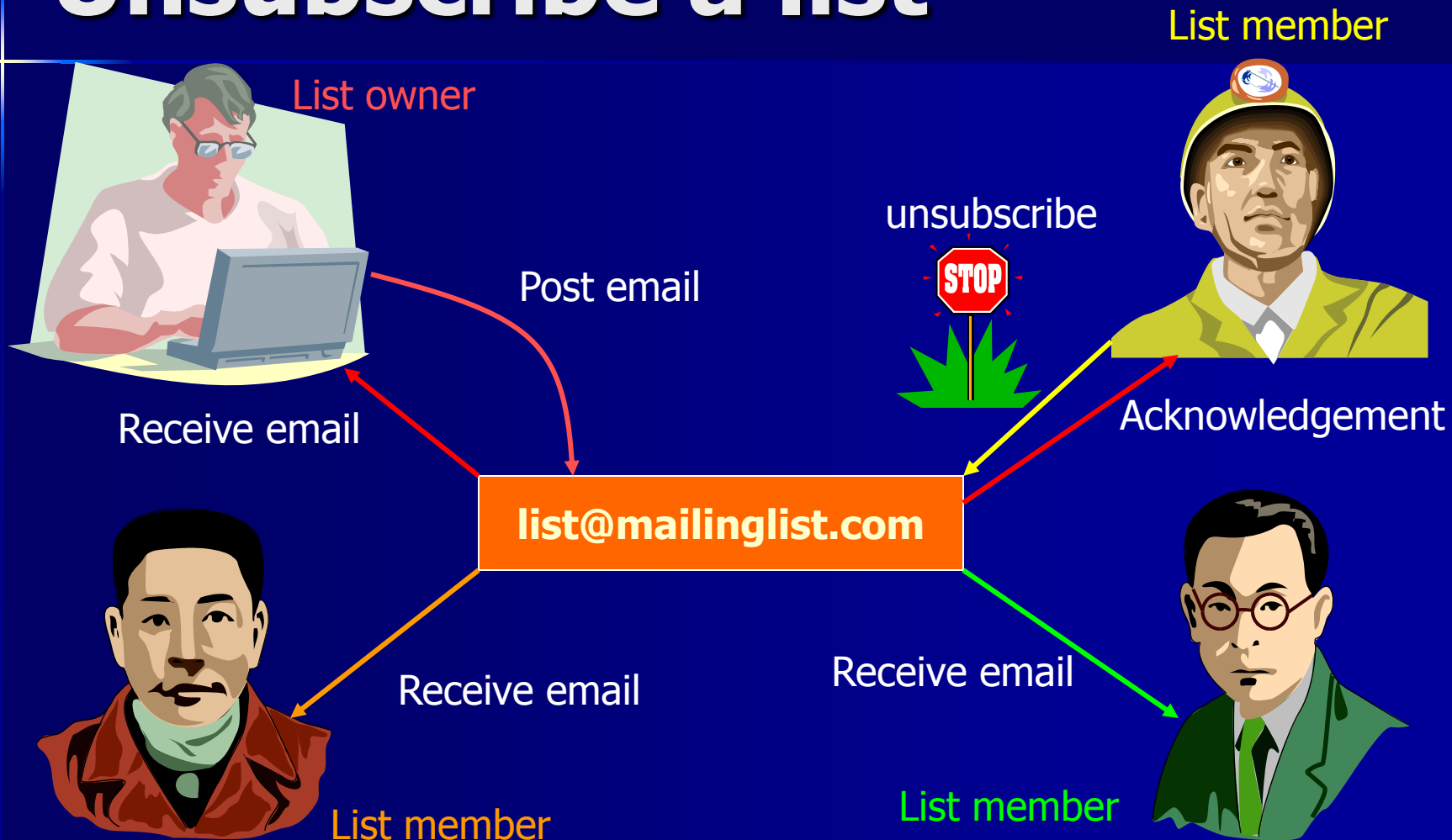
# How does it work?

## Post email to a list



# How does it work?

## Unsubscribe a list





# Mailing list - Summary

List type	Subscription Address	Subscription Message	Termination Message	Posting Address
<b>Listserv</b>	<u>listserv@hostname</u>	subscribe <i>list your name</i>	signoff <i>list</i>	<u>list@hostname</u>
<b>Majordomo</b>	<u>majordomo@hostname</u>	subscribe <i>list your name</i>	unsubscribe <i>list</i>	<u>list@hostname</u>
<b>Internet</b>	<u>list-request@hostname</u>	Anything	Anything	<u>list@hostname</u>
<b>Almanac</b>	<u>almanac@hostname</u>	subscribe <i>list</i>	unsubscribe <i>list</i>	<u>list@hostname</u>

# Mailing list – Listserv / Majordomo

L-Soft Products Head - Microsoft Internet Explorer

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Communicating with millions

PRODUCTS DOWNLOAD CORPORATE CUSTOMERS NEWS INFO SEARCH CONTACT

OVERVIEW **LISTSERV** LISTSERV Maestro LSMTMP ListPlex EASE MANUALS SUPP

**"IT WORKS, AND IT SCALES"**



WHY LISTSERV?	PRICING
FACTS & FEATURES	FREE DOWNLOAD
PRODUCT LINE	STATISTICS
TESTIMONIALS	WEB DEMO

**LISTSERV®**

LISTSERV is the *de facto* e-mail list management software. It is a system that allows users to create and maintain [e-mail lists](#) on their corporate networks or on the Internet. LISTSERV supports all types of e-mail lists: [newsletters](#), moderated and unmoderated [discussion groups](#) and [direct marketing campaigns](#). List sizes can range from a few participants in a discussion group to several million in a newsletter. Every list and its archives can be maintained through a simple web interface, which can be fully customized to match your website profile. LISTSERV is renowned for its flexibility, scalability, performance and time-tested robustness. In fact, LISTSERV was developed and has been continually improved since [1986](#), which speaks for our commitment to its quality and longevity both today and in the future.

**LISTSERV TODAY**

Number of public lists	55,384
Number of local lists	160,688
Total number of lists	216,072
Total membership (public+local)	126,169,001
Total messages delivered today	31,664,632
Total delivered using LSMTMP®	13,353,024 (42.2% of total)


Last update: Thu, 31 Jan 2002

Majordomo - Microsoft Internet Explorer

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## Majordomo

From the [Majordomo FAQ](#) maintained by David Barr:

majordomo - n: a person who speaks, makes arrangements, or takes charge for another. From latin "major domus" - "master of the house".

Majordomo is a program which automates the management of Internet mailing lists. Commands are sent to Majordomo via electronic mail to handle all aspects of list maintenance. Once a list is set up, virtually all operations can be performed remotely by email, requiring no intervention upon the postmaster of the list site. (For a web-based interface to Majordomo, see the [MajorCool](#) add-on package).

Majordomo controls a list of addresses for some mail transport system (like sendmail or smail) to handle. *Majordomo itself performs no mail delivery* (though it has scripts to format and archive messages).

Here's a short list of some of the features of Majordomo:

- Supports various types of lists, including moderated
- All list management activities are handled by email, so list owners don't need access to Majordomo server machine
- Supports archival and remote retrieval of messages
- Supports digests
- Modular design - use only the features you need
- Written in Perl - easily customizable and expandable
- Includes support for FTPMAIL
- Supports confirmation of subscriptions, to protect against forged subscription requests
- List filters, based on header or body regular expressions

# Subscription Message

```
xterm
- [3/+] Majordomo@listserv.cuhk.edu.hk (23) Welcome to ilc-news -- (96%)
From owner-ilc-news@listserv.cuhk.edu.hk Tue Jan 8 13:55:28 2002
From: Majordomo@listserv.cuhk.edu.hk
Reply-To: Majordomo@listserv.cuhk.edu.hk
To: cccheung@cse.cuhk.edu.hk
Subject: Welcome to ilc-news
Date: Tue, 8 Jan 2002 13:55:26 +0800 (CST)
Message-Id: <200201080555.g085tQh17550@resonance.csc.cuhk.edu.hk>

--

Welcome to the ilc-news mailing list!

Please save this message for future reference. Thank you.

If you ever want to remove yourself from this mailing list,
you can send mail to <Majordomo@listserv.cuhk.edu.hk> with the following
command in the body of your email message:

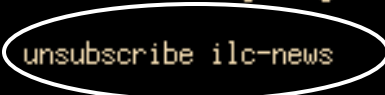
unsubscribe ilc-news
or from another account, besides cccheung@cse.cuhk.edu.hk:

unsubscribe ilc-news cccheung@cse.cuhk.edu.hk

If you ever need to get in contact with the owner of the list,
(if you have trouble unsubscribing, or have questions about the
list itself) send email to <owner-ilc-news@listserv.cuhk.edu.hk> .
This is the general rule for most mailing lists when you need
to contact a human.

i:Exit ^B:PrevPg ^F:NextPg v:View Attachm. d:Del ,a:Reply ,j:Next ? :Help
```

How to unsubscribe?




# Search mailing list – Catalist, Liszt

Catalist, the official catalog of LISTSERV lists - Microsoft Internet Explorer


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# L-Soft



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**Catalist, the official catalog of LISTSERV® lists**



*Last update: 1 Feb 2002*

*52,992 public lists  
out of 204,894 LISTSERV lists*

**Catalist Reference site**

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Welcome to *Catalist*, the catalog of LISTSERV lists! From this page, you can browse any of the 52,992 public LISTSERV lists on the Internet, search for mailing lists of interest, and get information about LISTSERV host sites. This information is generated automatically from [LISTSERV's LISTS database](#) and is always up to date.

## List information

- [Search](#) for a mailing list of interest


Internet

Topica: Learn More. Surf Less. - Microsoft Internet Explorer

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## The Leader in Email Newsletters & Publishing Solutions

Welcome Guest! [sign up now](#) [login](#)


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Build your newsletter marketing program on Topica's proven email publishing platform. It's web-based, full-featured, easy to use, and offers options that let you pick the service that's right for your business. Find your solution today!



#### Topica Exchange – Connect for Free!

Keep in touch with friends and family, or exchange ideas with colleagues. It's free, ad-supported, and easy to use. Start a free newsletter or discussion now!

### Choose from Thousands of Newsletters and Discussions

<a href="#">Art &amp; Design</a>	<a href="#">Music</a>	<a href="#">Sports &amp; Recreation</a>
<a href="#">Books, Movies &amp; TV</a>	<a href="#">News &amp; Information</a>	<a href="#">Travel &amp; Leisure</a>
<a href="#">Developers</a>	<a href="#">Personal Finance</a>	<a href="#">Women &amp; Family</a>
<a href="#">Food &amp; Drink</a>	<a href="#">Personal Technology</a>	<a href="#">The Topica 20</a>
<a href="#">Health &amp; Fitness</a>	<a href="#">Small Business</a>	<a href="#">More...</a>
<a href="#">Internet</a>	<a href="#">Software</a>	

[Help](#)

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Get great deals by email. Check your interests:

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Internet

# CUHK Mailing list

Reference

**Mailing List**

**According to Personal Data (Privacy) Ordinance**

1. The e-mail address collected here will be used for admission and new undergraduate programmes.
2. Information (your e-mail address) we collect that would identify you.
3. You have the right to request access to and correction of your personal data from this form. If you wish to delete your e-mail address, you wish to access or correct your e-mail address, please contact us.
4. If you wish to know more about our general privacy policy, please contact us.

**To obtain the latest information on our undergraduate programmes, please click on the following link:**

E-Mail Address:

**Subscribe**    **Unsubscribe**

**CUHK Library System Library Newsletter Mailing List**

The Chinese University of Hong Kong  
University Library System

**Library Newsletter Mailing List**

Click to subscribe or un-subscribe :

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2. [Un-subscribe the CUHK Library System Library Newsletter](#)

For any questions, please email to [sublibnews@cuhk.edu.hk](mailto:sublibnews@cuhk.edu.hk)

[Library Newsletter](#)  
[University Library System Home Page](#)

Subscribe /  
Unsubscribe

# How to apply?

<http://www.cuhk.edu.hk/itsc/network/app/maillist/index.html>

**Majordomo Mailing Lists**

Home | Site Map | Policy

Search

Introduction  
Usage  
Getting Help

**Majordomo Mailing Lists**

1. Introduction to Majordomo Mailing Lists

- 1.1. [What does a Mailing List do?](#)
- 1.2. [What is Majordomo Mailing List?](#)
- 1.3. [Natures of Majordomo Mailing Lists](#)
- 1.4. [Acceptable Use Policies and Guidelines](#)

**Internet Applications**

An Internet mailing list is simply a single email address that points to a number of email addresses. An email sent to a mailing list is automatically sent to members who had subscribed to the list.

ITSC offers mailing list services using the Majordomo mailing list software for faculties, departments and administrative units to disseminate messages through email. But Majordomo Mailing List is not the only way to communicate with your colleagues and students. Before you apply for a list, you should carefully consider other alternatives.

Form No. A07

香港中文大學資訊科技服務處  
Information Technology Services Centre  
The Chinese University of Hong Kong

**Major-domo Mailing List Application Form**

**Section A: General Information**  
**Notice to Applicants Regarding the Personal Data**

- The personal data provided on this form will be used by
  - ITSC to verify your identity in the University with the Personnel Office, the Registration & Examinations Section and/or other administrative units of the University to confirm your eligibility for the computer resources and services being provided by ITSC
  - ITSC to contact you
  - ITSC and other CUHK administration units to disseminate related information to you
- The provision of personal data on this form is voluntary. If you do not provide sufficient information, however, we may not be able to process your application.
- Personal data held by us relating to you will be kept confidential and will not be used for other purposes apart from the above.
- You have the right to check whether ITSC holds personal data on you. You can submit your request through Email to [pd-help@cuhk.edu.hk](mailto:pd-help@cuhk.edu.hk) or in writing to the Head of User Services Section, Information Technology Services Centre.
- Details on the use of personal data by ITSC can be found at URL <http://www.cuhk.edu.hk/itsc/about/tdo.html>.

Staff ID No. \_\_\_\_\_ Name in Chinese (if applicable) \_\_\_\_\_

Title Prof / Dr / Mr / Ms / Mrs \_\_\_\_\_

Name in English \_\_\_\_\_

Department \_\_\_\_\_

Contact E-mail Address \_\_\_\_\_ Contact Phone No \_\_\_\_\_

Section B: Services Request

Internet

Unknown Zone



# Mailing list Netiquette

- Keep in short.
- Your topic is relevant to the list.
- Never send personal messages to the whole list, but to individuals.
- Clearly separate facts and opinions.
- Avoid insulting anyone.
- Include your full name & email address in the signature.
- Don't include email attachments.
- Don't use auto-reply.

# Mailing list digests

- A very busy mailing list will provide a digest available for members to request instead of the regular list.
- A digest is the compilation of all the messages that are received to that particular group a day or a week.
- If you do not want to bother with a bunch of email messages on a real-time basis, otherwise, please select individual ones.



# Comparison between Mailing list & Newsgroup

	Mailing List	Newsgroup
Coverage	Limited to those on a mailing list	Unlimited coverage
Organization	Intermingle into the mail box	Well organized into different newsgroups, e.g. rec.music.folks, cuhk.forum, cuhk.cse.csc1720
Volume	Varies, but all stored in user's storage space	Huge, but do not require storage of individual user
Commitment	Committed, until un-subscription	Participating into a news group at user's discretion
Distribution speed	Virtually instantaneous	Slow

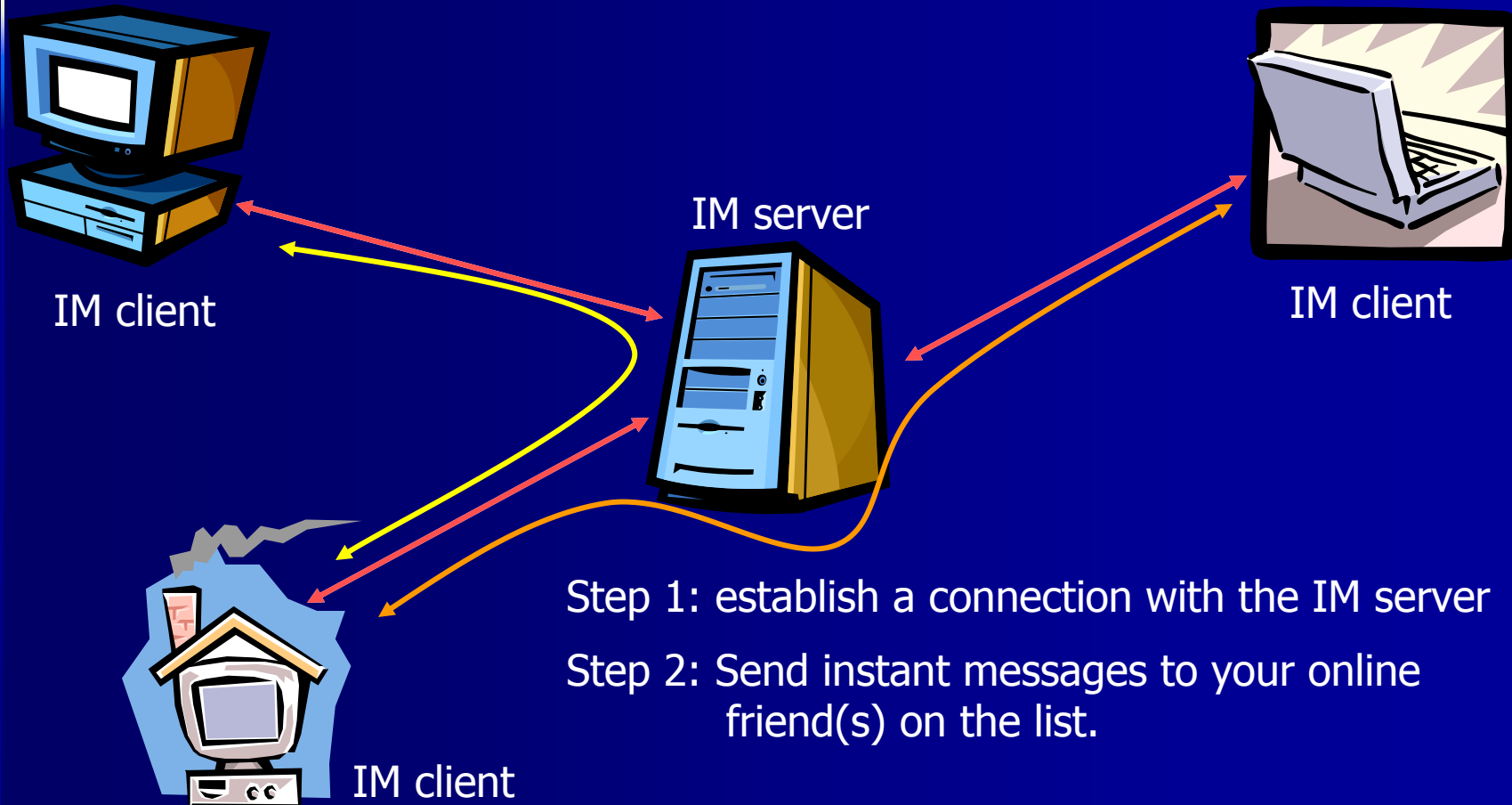
# Instant Messaging (IM)

- Instant Messaging (IM) has gained popularity because
  - Rapid response of email is not fast enough.
  - No way to know the receiver is online or not.
  - Many steps to send email back and forth with the same person.
- We have to maintain a list of people that you want to contact with
  - Buddy list / Contact list

# Instant Messaging

- A variety of special features
  - **Instant Message** – sending messages back and forth with an online friend
  - **Chat** – creating your own chatroom with your friend(s)
  - **Web links** – sharing your favorite links with your friends
  - **Files** – sending file to your friend directly
  - **Talk** – Using Internet to talk to your friend.
  - **Real-time information** – retrieving real-time stock or other quotes.

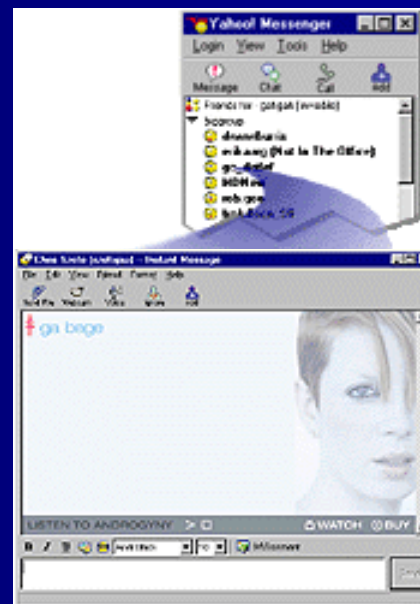
# How does it work?



# Instant Messaging - Figures



## YAHOO! Messenger



## ICQ.com

"ICQ is Online Happiness"



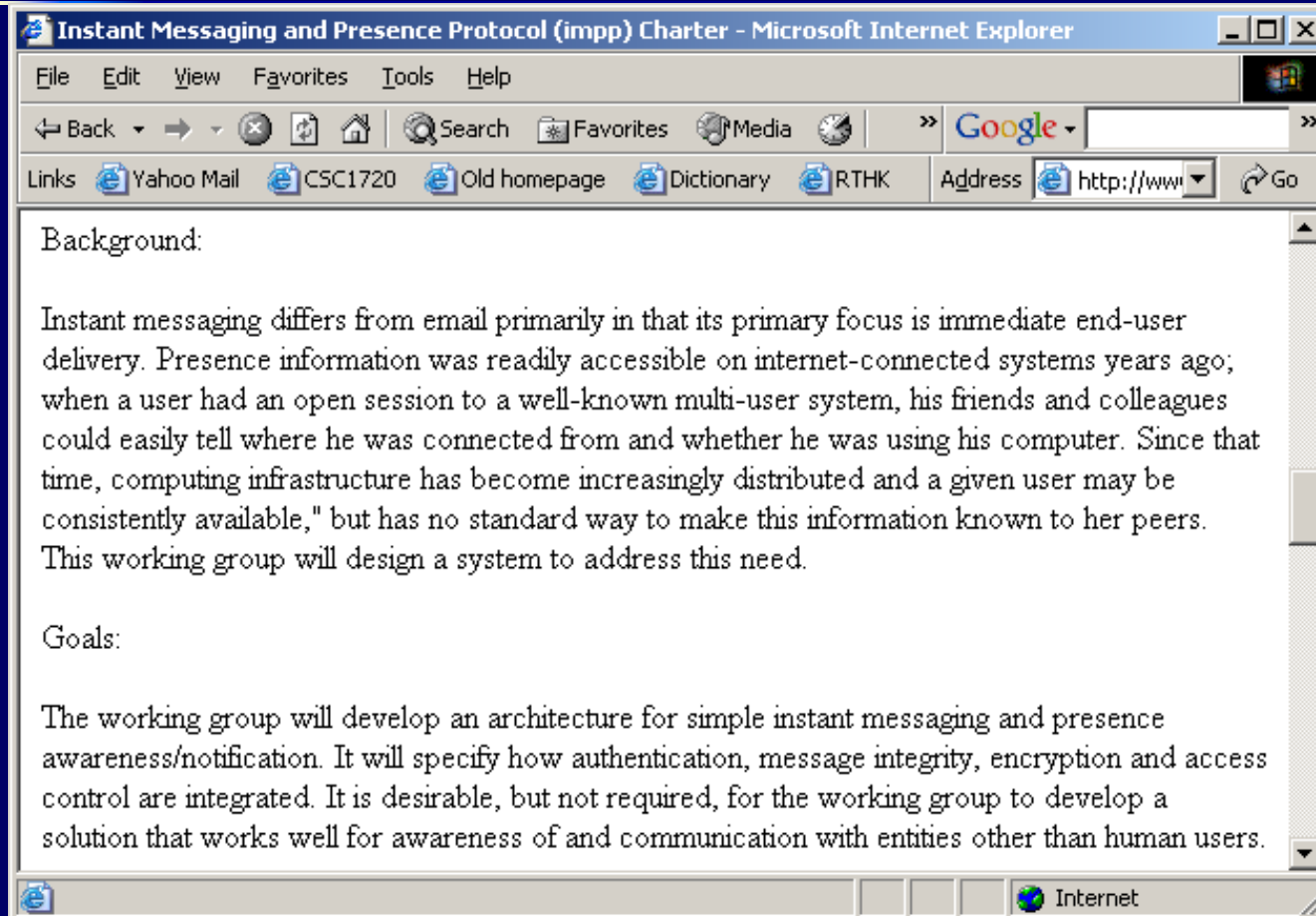
# Trillian – multi-chat client

- Support for IRC, AIM, ICQ, MSN, Yahoo Messenger.





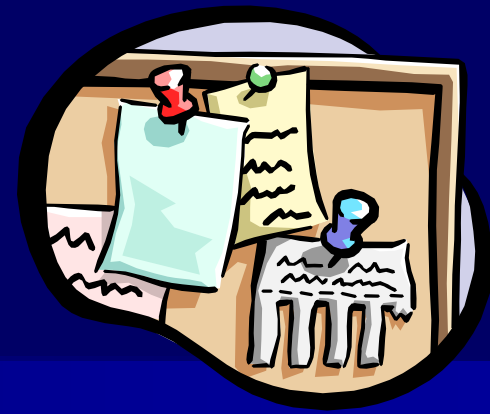
# Instant Messaging and Presence Protocol (IMPP)



Maintained  
by IETF

So have  
you tried  
IM?

# Bulletin Boards (BBS)



- A bulletin board is a web site.
- There is a computer hosting the bulletin board.
- You can use menus to navigate the board's contents.
- You can post /follow-up /view /modify articles (or insert pictures) on the board.
- Threading control.



# Bulletin Boards (BBS)

Arts and Crafts Bulletin Board - Free - Microsoft Internet Explorer

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- [Paper mache ornaments](#) - S. Branson 18:52:38 2/07/02 (0)
- [Star Paper Lanterns](#) - Patti 13:26:52 1/31/02 (0)
- [looking for cross stitch pattern of yorkie](#) - julie 16:27:48 1/29/02 (0)
- [Die Cut Machines](#) - Michele 14:46:01 1/25/02 (0)
- [Wax Over](#) - Lee 11:15:04 1/23/02 (0)
- [what dolls can I use for my crochet patterns](#) - theresa belk 21:11:36 1/22/02 (0)
- [Seeking New Crafters](#) - Golden Goose 09:25:17 1/22/02 (0)
- [Grosgrain ribbon](#) - Moe 23:55:13 1/21/02 (0)
- [plastic canvas triple whirligigs](#) - carrie 13:31:24 1/21/02 (0)
- [used craft books](#) - CWhite 04:53:16 1/19/02 (0)
- [Crafting with slate HELP](#) - Bob Cetta 00:48:21 1/16/02 (0)

used craft books - Microsoft Internet Explorer

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## used craft books

[ [Follow Ups](#) ] [ [Post Followup](#) ] [ [Bulletin Board](#) ]

Posted by [CWhite](#) on January 19, 2002 at 04:53:16:

www.half.com has used craft books. I purchased one like new with no problems. This great for beginners like me who may not be able to invest in a lot of crafting materials. They also have good used magazines for sale in their everything else category. Click on "books" and do a "craft" search.

Follow Ups:

Post a Followup

Name:

E-Mail:

Subject:

Comments:

Done Internet

orchid.cse.cuhk.edu.hk - default - SSH Secure Shell

File Edit View Window Help

目前選擇:

◆ [Boards] [香港網站]

AustraliaUnitedKingdomTaiwanUnitedStates CanadaNewZealandMacauEuropeanUn  
 UCLADeakinUMDOxfordRMITCurtinMonashUNSWANUCaltechPrinceton  
 HKiBBSstudyoverseas 呢到咩係 第六區 海外留學討論區 HKiBBSstudyoverseas  
 MdxUManhattanCollSLACMU NTUMacquarieUniMelbUQVofMichiganCKU  
 AustraliaUnitedKingdomTaiwanUnitedStates CanadaNewZealandMacauEuropeanUn

B) 所有討論區  
 ◆ N) 閱讀新文章 New  
 0) BBS系統 -- [站內]  
 1) 電腦技術 -- [電腦][系統]  
 2) 娛樂資訊 -- [歌影][娛樂]  
 3) 文藝社會 -- [文藝][社會]  
 4) 休閒埗帶 -- [休閒][體育]  
 5) 情感半區 -- [感性]  
 6) 談天說地 -- [閒聊][資訊]  
 E) 回到主選單

時間: [Tue Feb 4 15:24 年初四季吉祥] 總人數/好友: [ 63 / 0 ]

Connected to orchid.cse.cuhk.edu.hk SSH2 - 3des-cbc - hmac-md5 78x24

# BBS

## Reference

Example of Threaded Board - Microsoft Internet Explorer

Address <http://www.bulletinboards.com/message.cfm?comcode=cancer>

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### Message List

To Open and Close the folders below, Double-Click the "green folder" icons, or the "+", and "-" icons. Clicking on a Message Title displays the message in the right window.

[Home](#) [PostMsg](#) [Modify](#) [Delete](#) [Search](#) [Expand](#)  
[Frames](#) [ChgFmt](#)

Show messages created in the last:

### Posting a reply to the message:

[ Re; Board test 2002 02/17/03 MsgId=359179 ]

To post a reply, fill in the form below and submit it.

Your entry will be immediately visible to anyone visiting this Message Board.  
(To see your reply you'll have to refresh your screen, by pressing the "Reload" button on your browser).

Example of Threaded Board - Microsoft Internet Explorer

Address <http://www.bulletinboards.com/message.cfm?comcode=>

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### Message List

To Open and Close the folders below, Double-Click the "green folder" icons, or the "+", and "-" icons. Clicking on a Message Title displays the message in the right window.

[Home](#) [PostMsg](#) [Modify](#) [Delete](#) [Search](#) [Expand](#)  
[Frames](#) [ChgFmt](#)

Show messages created in the last:

- General (15 msgs)
- Board test 2002 - (Jr)
- test message - (test)
- Cancer Prevention -
- Thyroid Cancer conr
- cancer runs in famil

### Text of selected message


[Reply](#) [Enlarge](#)


#### General

test message - (test) 02-16-03 [Msgid=185098]

Just testing.  
testing formatting **BOLD** *italics* underlining


- list item1
- list item2
- list item3

smilies -> 

okay 

Date=02-16-03 test,, [Msgid=185098]

[Replies to this message, if any, are listed below.]

**B** 

Font:  Size:  Color:

AutoFormat? Yes  No  [Help](#)

Message text for your new message:

Password for this message:  (required)  
ready have a password. Create any 1 to 8 character password you like.  
d will allow you to later modify or delete this message if you so choose)

55 Characters left

Message Title:  (required)

(optional)

# Internet Relay Chat (IRC)

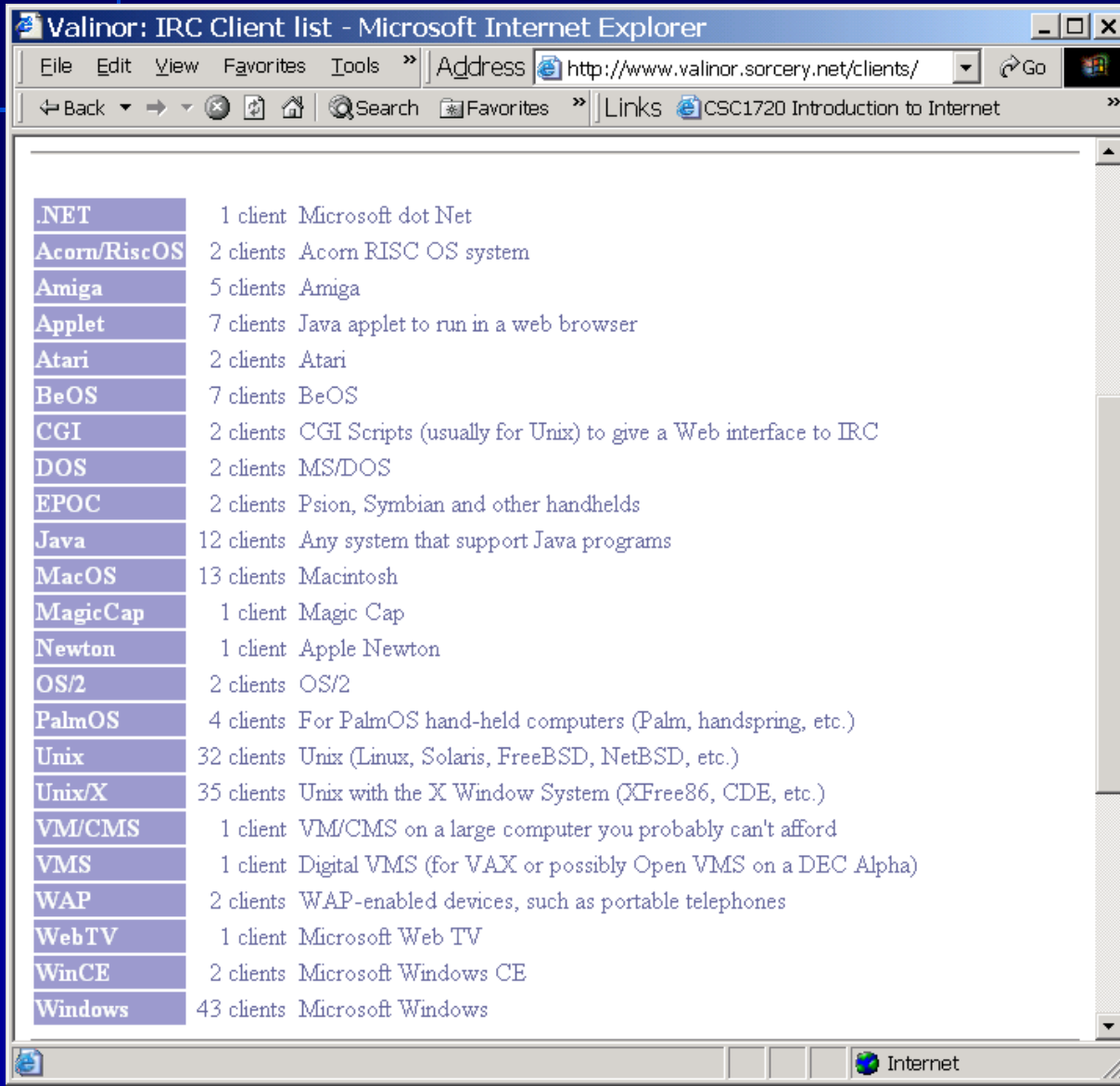
- IRC is the original chat medium on the Internet. IRC is worldwide.
- More than 100,000 people are chatting online at any given hour.
- IRC is
  - Multi-user
  - Multi-channel chat system
- Each user has a nickname and they can talk to other users either in **private** or on a **chatroom**.

# How to use IRC?

- Client & Server model
- IRC clients are available for different platforms, PC, Macintosh, or UNIX.
- Macintosh IRC client
  - Ircle
- Windows based IRC client
  - mIRC
  - Easy to use, highly configurable



# IRC Clients



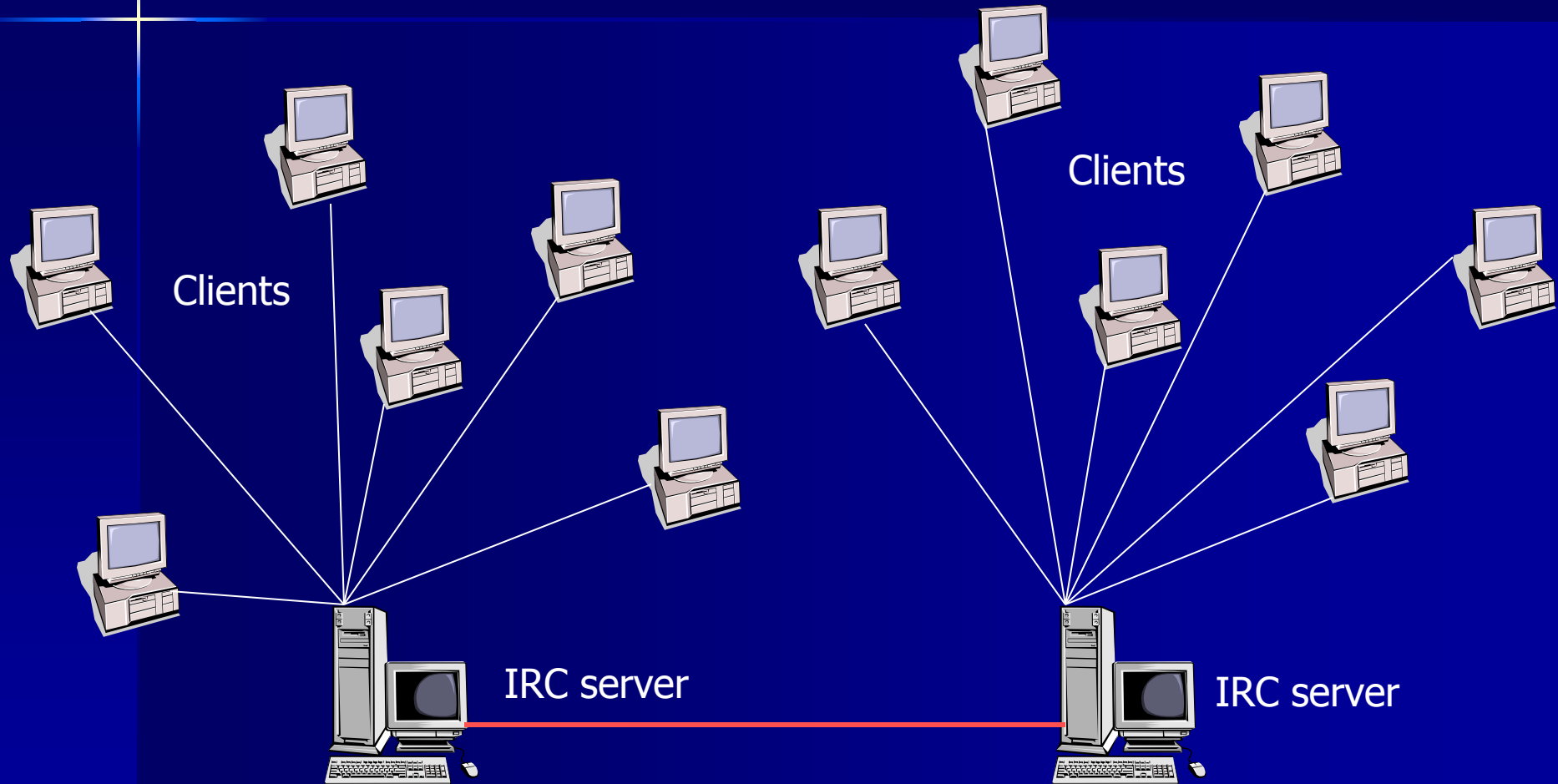
The screenshot shows a Microsoft Internet Explorer browser window titled "Valinor: IRC Client list". The address bar shows the URL "http://www.valinor.sorcery.net/clients/". The main content area displays a list of operating systems and the number of clients for each, along with a brief description.

.NET	1 client	Microsoft dot Net
Acorn/RiscOS	2 clients	Acorn RISC OS system
Amiga	5 clients	Amiga
Applet	7 clients	Java applet to run in a web browser
Atari	2 clients	Atari
BeOS	7 clients	BeOS
CGI	2 clients	CGI Scripts (usually for Unix) to give a Web interface to IRC
DOS	2 clients	MS/DOS
EPOC	2 clients	Psion, Symbian and other handhelds
Java	12 clients	Any system that support Java programs
MacOS	13 clients	Macintosh
MagicCap	1 client	Magic Cap
Newton	1 client	Apple Newton
OS/2	2 clients	OS/2
PalmOS	4 clients	For PalmOS hand-held computers (Palm, handspring, etc.)
Unix	32 clients	Unix (Linux, Solaris, FreeBSD, NetBSD, etc.)
Unix/X	35 clients	Unix with the X Window System (XFree86, CDE, etc.)
VM/CMS	1 client	VM/CMS on a large computer you probably can't afford
VMS	1 client	Digital VMS (for VAX or possibly Open VMS on a DEC Alpha)
WAP	2 clients	WAP-enabled devices, such as portable telephones
WebTV	1 client	Microsoft Web TV
WinCE	2 clients	Microsoft Windows CE
Windows	43 clients	Microsoft Windows

- You can use different Operating System to connect to the IRC network.

## Reference

# How does it work?



# How Do we connect?

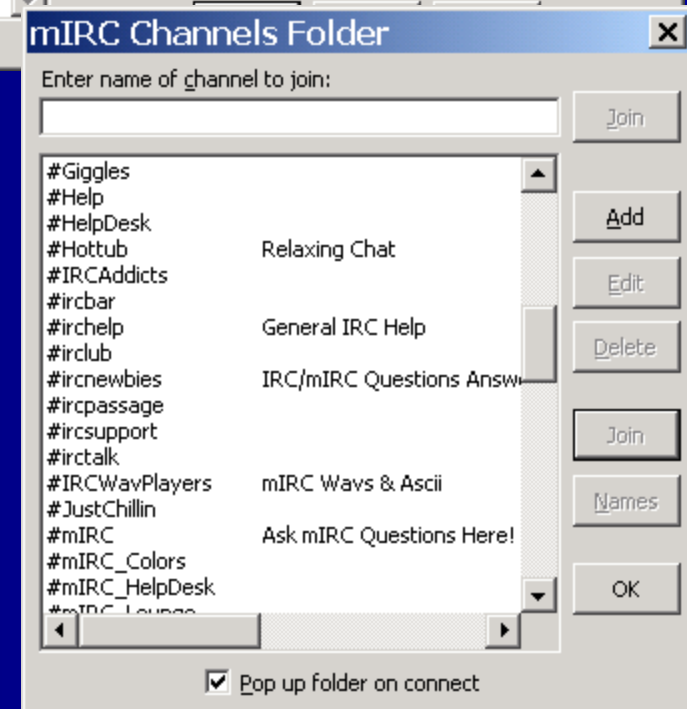
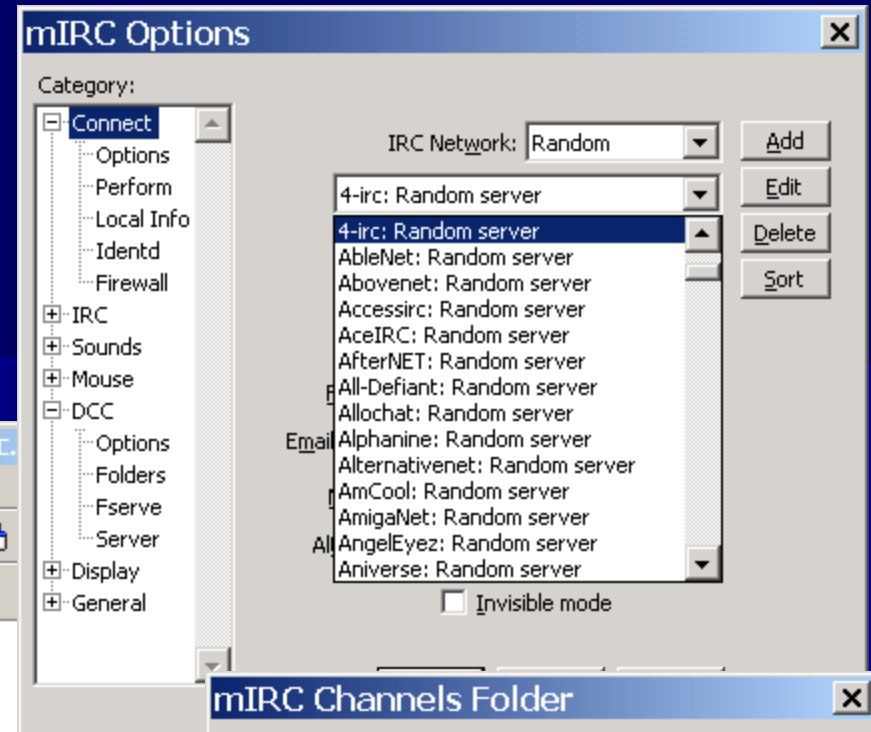
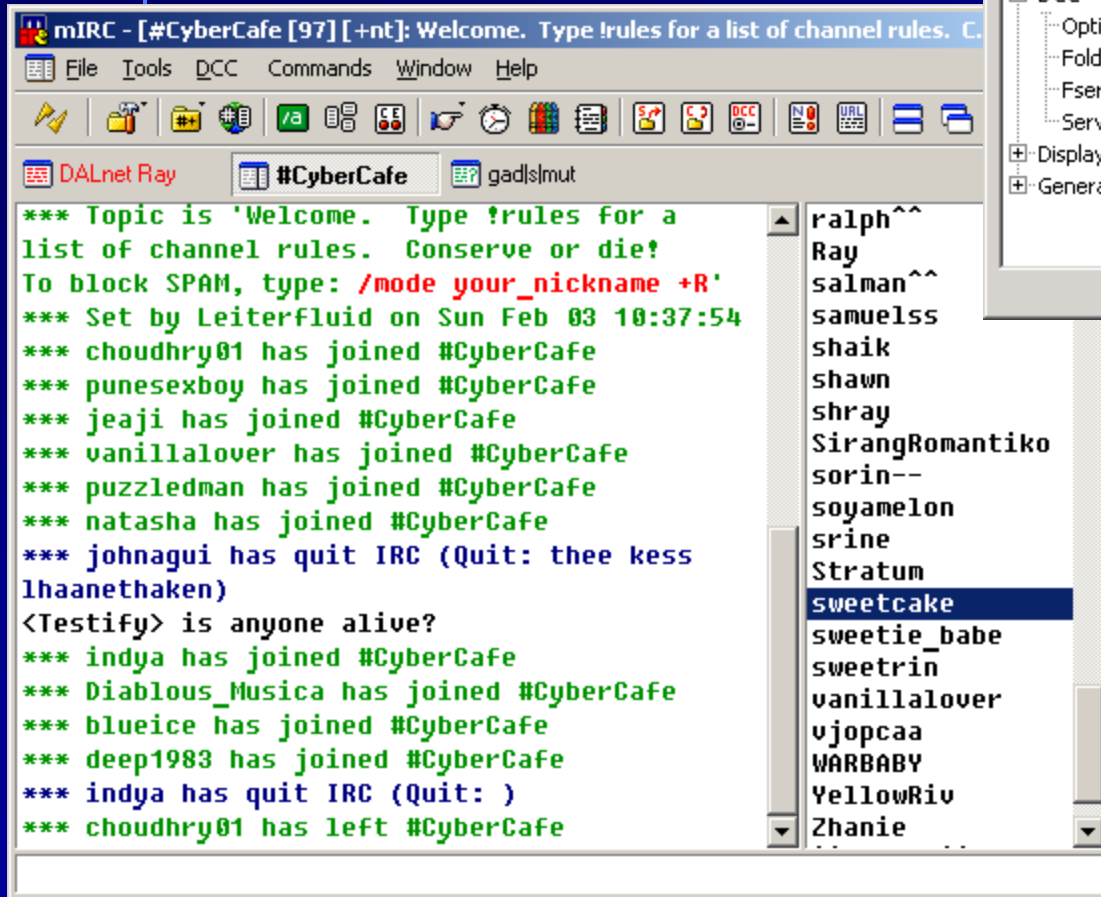
- IRC network is a **collection of servers** linked together.
- To use IRC, we should connect to one of the IRC server.
- All servers on a network have the access to the same information.
- Depends on your geographical location to choose your IRC server in the IRC network.

# IRC commands

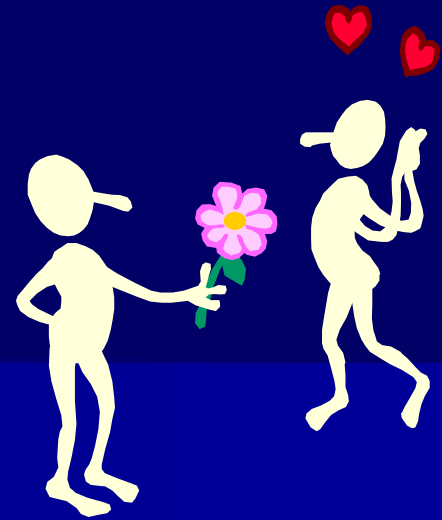
- If you are connected, you need to join a channel (chat room).
- A Channel is a place that group conversation occurs.
- All IRC commands are preceded by the forward slash “/”.
  - **JOIN** – to join a channel
  - **QUIT** – exit your IRC session
  - **NICK** – change your nickname
- IRC Etiquette – keep in mind.



# IRC - Figure



# Chat Online?



## ■ Required

- An Internet connection
- The proper software
- Lots of patience
- A common language
- Basic literacy skills
- A good disposition
- A high tolerance for meeting different kind of people imaginable.

# MUD – Multi-User Dungeon

- **MUD** is also called “Multi-User Domain”
- It is a computer program which allows users to login and explore.
- Each user takes control of a special character. (You can walk around, chat, ... )
- MUD is Real-time chat forum and has multiple locations
  - e.g. combat, traps, puzzles, magic
- Implicitly reserved for game-oriented.
- Some other social MUD are called “MU\*”

# Top MUD sites

Top MUD Sites - mud list, top muds, mud sites, discussion forums, articles, game reviews - Microsoft Internet Explorer

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Search Favorites Media Print Address <http://www.topmudsites.com/>

Links Yahoo Mail CSC1720 Old homepage Dictionary RTHK



Latest Player Reviews	Search for a MUD	Newest MUDs Added
<p><a href="#">The Eternal City</a></p> <p><a href="#">The Pattern's End</a></p> <p><a href="#">The Turning Point</a></p> <p><a href="#">Ashavar's Legacy</a></p> <p><a href="#">Ancient Anquish</a></p> <p><a href="#">Accursed Lands</a></p>	<p>Ranking List <input type="text"/> Go</p> <p>Database <input type="text"/> Go</p> <p><a href="#">Click here for advanced search</a></p>	<p><a href="#">Mayhem MUD</a></p> <p><a href="#">Godwars: Lands of Obscurity</a></p> <p><a href="#">ResortMUD 2: The Last Resort</a></p> <p><a href="#">SaevenX - The Dark Sky Proj...</a></p> <p><a href="#">Lakes of Darkness</a></p> <p><a href="#">RavenGuard</a></p>

Recent Forum Discussions	MUD Rankings
<p><a href="#">Are there any mudders with Asperger...</a> - 1 replies</p> <p><a href="#">Permadeath</a> - 5 replies</p> <p><a href="#">Very small mu*s2</a> - 3 replies</p> <p><a href="#">Smaug problem on startup</a> - 1 replies</p> <p><a href="#">Fread error in limbo</a> - 2 replies</p> <p><a href="#">Ranged Weapons</a> - 6 replies</p>	<p>Display Ranks <input type="text"/> Choose Ranks</p> <p>Display Categories <input type="text"/> Choose Category</p>

Main	<p><a href="#">Home</a></p> <p><a href="#">Forums</a></p> <p><a href="#">Articles</a></p> <p><a href="#">Reviews</a></p> <p><a href="#">Rules</a></p> <p><a href="#">Advertise with Us</a></p> <p><a href="#">Shocking Freebies</a></p> <p><a href="#">Feedback</a></p>
	Top MUD Sites
	<p>Add your Site</p> <p>Edit your Site</p> <p>Sites 1-20</p> <p>Sites 21-40</p> <p>Sites 41-60</p> <p>Sites 61-80</p> <p>Sites 81-100</p>
	Top MUD Sites
	<p>MUD Databases</p>

RANK	Top MUD Sites
1	<p> <a href="#">Realms of Despair</a> <a href="#">info</a></p> <p>One of the most popular, long running stable muds on the 'net. Regularly peaks at over 500 players, and is the development ground for the SMAUG codebase.</p>
2	<p> <a href="#">The Eternal City</a> <a href="#">info</a></p> <p>"If you're looking for a game you can really sink your teeth into, with a world in which you can become a true character, this is it." - Michael Wolf, PCGamer</p>
3	<p> <a href="#">Merentha</a> <a href="#">info</a></p> <p>Merentha regularly has over 100 players on during the day. We offer dozens of races and classes, hundreds of spells, player owned and run councils, guilds and kingdoms. Players can own houses, pets, mounts, air balloons, sea ships.</p>
4	<p> <a href="#">Threshold RPG</a> <a href="#">info</a></p> <p>Role playing is not an option, it is a requirement! Immerse yourself in this richly designed world with player run clans, guilds, legal system, economy, religions, and more. With a UUnet T1 and superb hardware, you also need not worry about stability.</p>
5	<p> <a href="#">Inferno</a> <a href="#">info</a></p> <p>A world of high medieval fantasy where light and darkness vie for supremacy beneath the vigilant watch of the Empire. 3 cities. 15 races. 37 guilds. Ongoing plot lines and 8 weekly GM-run quests, their courses determined by you. What "RPG" used to mean.</p>

gast@Wunderland - KnuD 1.0

Mud View Options Profile Plugins Help

Aliases... Triggers... Logging... Toolbar... Save Current Profile

```

Lebenspunkte : 60
Magiepunkte  : 60
-----
Erfahrungspunkte : 0
Abenteuerpunkte : 0 (722)
Spielerstufe    : 1
Gildenstufe     : 0
-----
Das sind Deine Attribute Maximum
Intelligenz     : 1 24
Kraft          : 1 26
Geschicklichkeit : 1 25
Ausdauer       : 1 25
-----
vorstent      : 20
Rasse        : Mensch
Charakter    : neutral
Gilde        : keine
Groesse      : 175 cm
Gewicht      : 75.0 kg
Alter        : 00:28 Stunden
diesen Monat : 00:28 Stunden
Leiden       : keine
Vergiftung   : keine
Fluchtricht. : keine
-----
Gewichtsauslastung : 0
Saettigung an Essen : 0
Trinken            : 0
Alkohol           : 0
-----
Das Wunderland, das Wunderland, es ist Dir gaenzlich unbekannt.
-----
> schau
Der Mond und das von den Haeusern herueberscheinende Licht erhellen die
Wiese. Schemenhaft erkennst Du im Westen einen Wohnwagen und im Sueden einen
Huegel. Im Osten scheint ein breiterer Weg zu liegen.
Ein Obstbaum.
Es gibt drei sichtbare Ausgaenge: osten, sueden und westen.
Totoschka.
Ein Briefkasten.
> [Allgemein:DaFire] och menno
  
```

Ready. 00:33:00

KnuD Mapp

File Edit View Tools Options

Categorize: Zone/Room

- Locations
  - Forest
    - Forest Entrance
  - Lord Castle
    - Portal
    - Sunbrights Room
  - Main Area
    - Dragon Tower
    - Dungeon Tower
    - Lord Tower
    - Portal Room
    - Tower of Light

The main area

The Keep

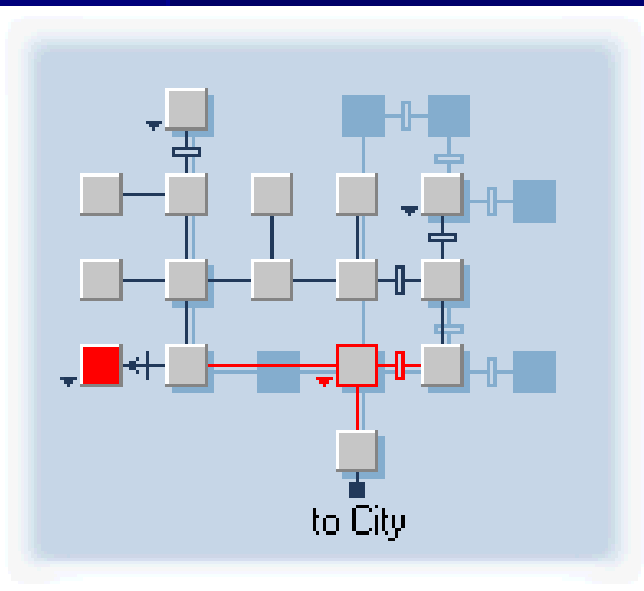
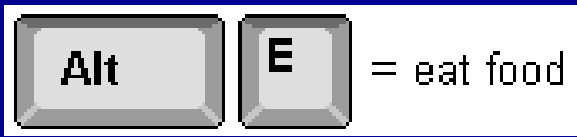
# MUD figures

- You can walk, chat, attack, defense, ...

hp: 439 mana 94 mv 236

look

```
<258hp 94m 208mv>
You OBLITERATE a butterfly
You OBLITERATE a butterfly
A butterfly is DEAD!!
You receive 32755 exps.
```



inventory

hp: 12

AutoLoot

Name	Damage	Hit	Dam
longsword, black	3d6	+2	+0
scimitar, golden	3d5	+0	+0
sword, 2-handed	5d4	+0	+4
dirk, battlemaster	8d1	+5	+1

People

- Darker
- Chiara

Chiara chats to you, 'Yeah,  
You chat to Chiara, 'ok, I ju  
Chiara chats to you, 'OK...a  
You chat to Chiara, 'yep!'

# Web-Based Chat

- With the development of Java-based servers, browser plug-ins and HTML-based chat.
- Simply means – Chatting on the web
- Easy to use – chat everywhere
- You should first create an account
- Login and then join the chat session.

# Web-based Chat - Figures

Yahoo! Chat - Microsoft Internet Explorer

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## YAHOO! Chat

Welcome, ccheung2 | [add / change profile](#)

### Yahoo! Chat

[Topics](#) -> Health & Wellness

 Show Empty Rooms

Yahoo! Chat - Microsoft Internet Explorer

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Links Yahoo Mail CSC1720 Old homepage Dictionary RTHK Address http://chat.yahoo.com/c/dhtml/ Go

## YAHOO! Chat

You are in Programming:1 [Help](#) - [Exit](#)

Chat Tools Settings Favorite Rooms Change Room

### Programming:1

Topic: Pick your language: C++, Java, Visual Basic

Arastafarian: *Don't get smart.*  
garg\_deepali30 left the room.  
robinhood222001: **any nerd who thinks that vc is peice of cake?**  
c0mputer\_g0ddess: hold on...LMAO  
zella2u joined the room.  
just4christ27358: **hmm haha**  
longhard14 left the room.  
brainondrugz joined the room.  
Arastafarian: *such peurile nonsense won't earn you respect* 😊  
manu\_ash17 joined the room.  
Arastafarian: *robinhood222001 do you have a question?*  
robinhood222001: **yeah**

B / U ☺ ☹ Arial 10

Send

### eHealthInsurance

MAJOR PLANS INSTANT QUOTES BEST PRICES SUPERIOR SERVICE

### Chatters

Menu Emotions

- ☺ a\_freakin\_insomr
- ☺ alishah\_aga
- ☺ Arastafarian
- ☺ ashi2201
- ☺ ashish\_c\_c
- ☺ brainondrugz
- ☺ c0mputer\_g0ddes
- ☺ ccheung2
- ☺ ch\_sukan
- ☺ fujiki27yokohama
- ☺ guoyeah2001
- ☺ jackthehacker10
- ☺ janeotron
- ☺ just4christ27358
- ☺ manu\_ash17
- ☺ maya\_n\_nair
- ☺ muthamil\_selvar

IM Ignore

Status: Im Available

Internet

# Yahoo! Group?



- Share files, photos, mailing list, ...

A screenshot of the Yahoo! Groups website as seen in a Microsoft Internet Explorer browser window. The browser's address bar shows "http://groups.yahoo.com/". The page content includes a "Welcome, Guest" message with "Register" and "Sign In" links. A main header reads "Yahoo! Groups". Below this, there are three columns: "Sign In" with links for "New users" and "Registered users"; "What is a Group?" with a description of group benefits and a "Start a new Group?" link; and "Editor's Picks" featuring "Dessert-Lovers" and "AnHerbGarden" groups with their member counts and categories. A "Join a Group" section with a search box is also visible. The browser's taskbar at the bottom shows the "Internet" icon.



# Internet Phone Calls

- Making telephone calls by using the Internet.
- Your voice is digitalized and broken down into IP packets for routing.
- 2 ways for communication
  - Making calls via your PC (PC phone call)
  - Internet Telephony (Voice over IP)
    - Make a phone call same as you pick up the telephone, except your call is routed over the Internet rather than the original telephone system.
    - Cut the price for Long distance calls.

# PC phone calls



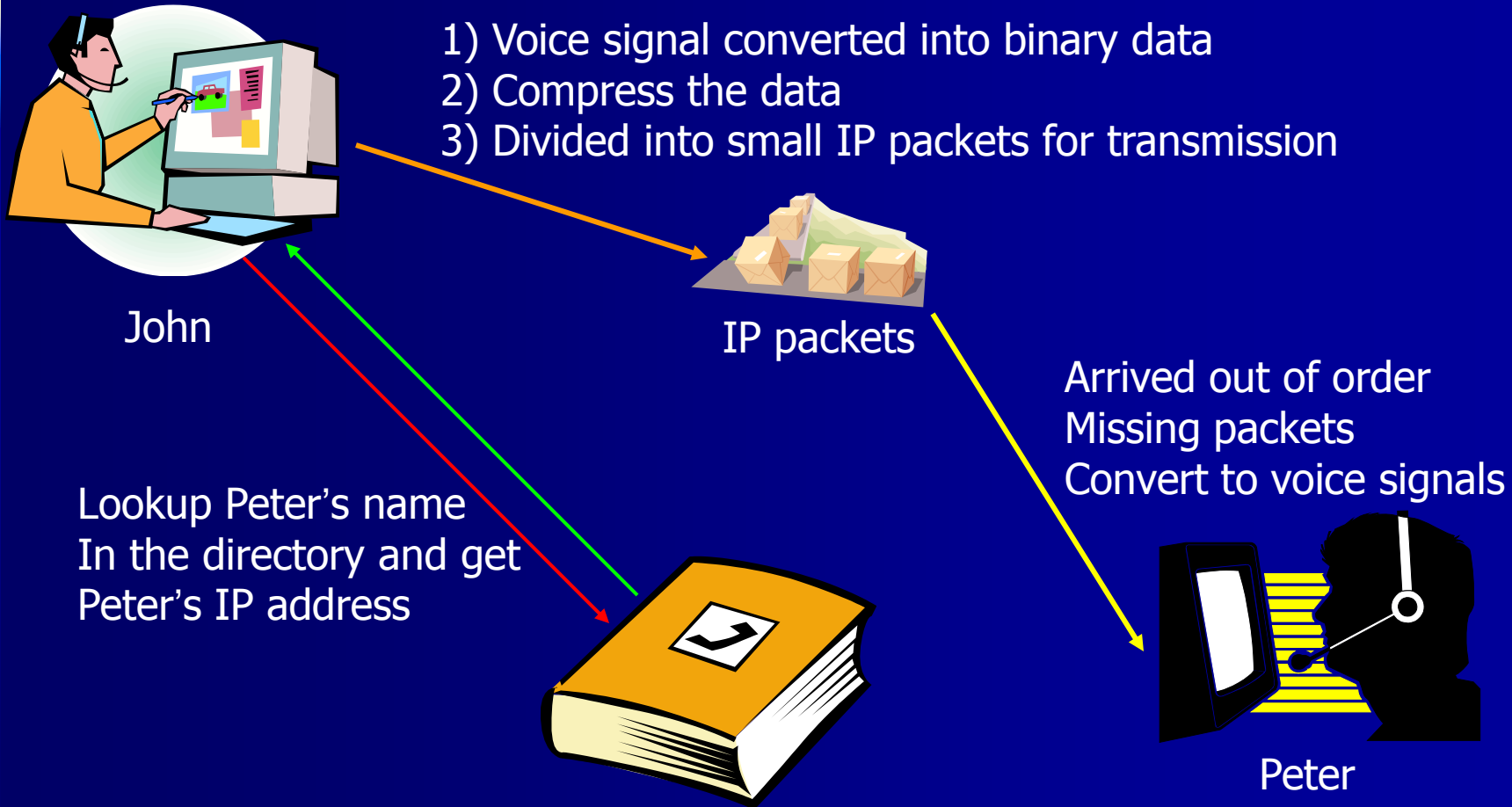
- Connect to the Internet.
- Start the special phone software which allows you to connect to a special directory.
- The directory stores a list of people who have the particular phone software, and their IP addresses.
- You can lookup someone's name of the directory in order to retrieve his/her IP address.
- The communication channel will be digitalized.
  - The software breaks up the voice into special packets which will be sent over the Internet by using TCP/IP protocol.

# Microsoft NetMeeting

- Support video and audio conferencing.
- View the Internet Directory, and review a list of people currently running NetMeeting.
- Use NetMeeting's address book to place calls.



# How does it work?



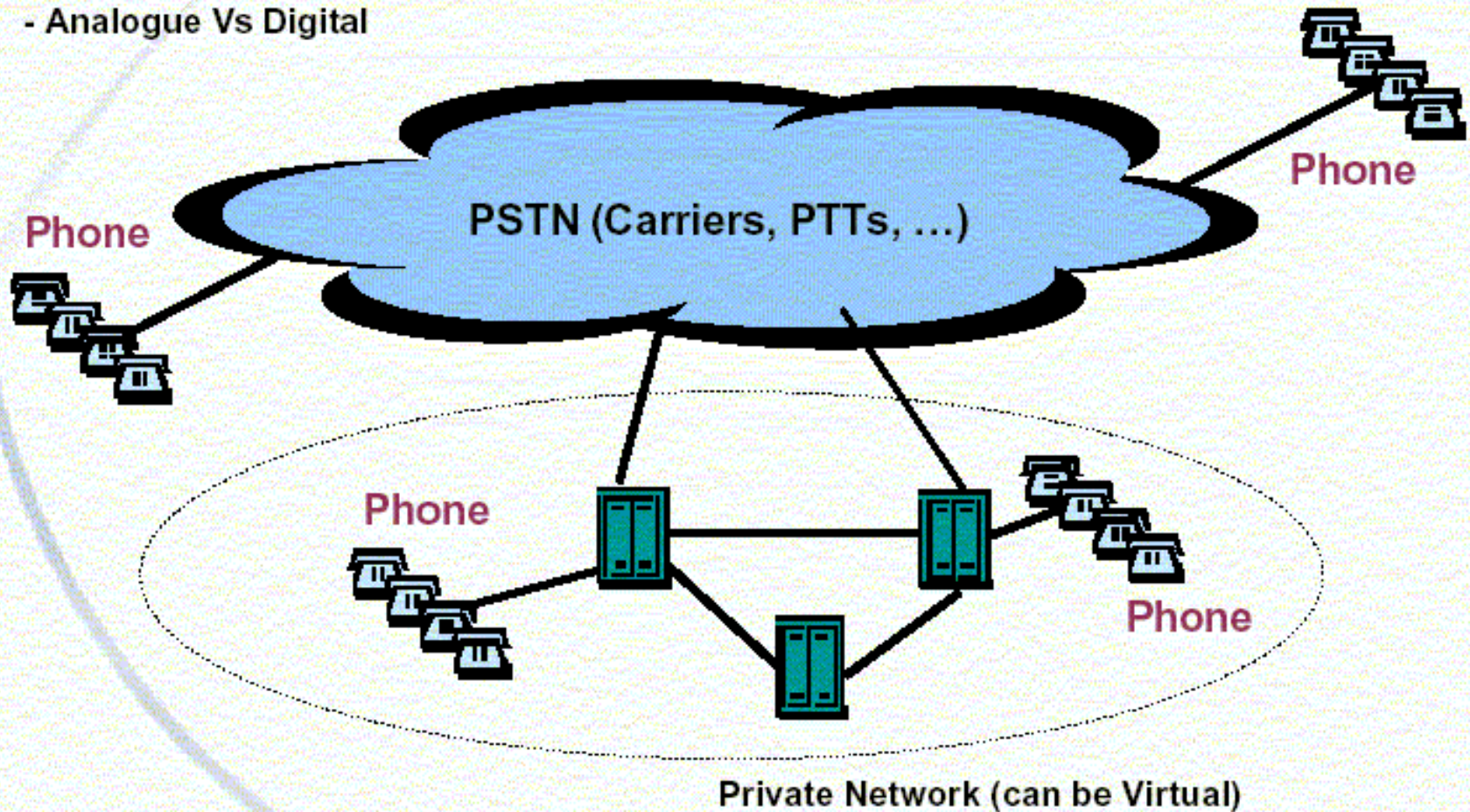
# Internet Telephony

- Use normal telephone (but not a computer) to make a phone call using IP telephony.
  - You might have to dial a special code first.
- The first part use the normal Public Switched Telephone Network (PSTN).
- The call is sent to a special IP voice gateway which converts voice signal to digital data, compress it, digitize voice signal to IP packets.
- The IP packets are sent to another IP voice gateway which is closed to the phone call destination.
- The quality is slightly worst then normal phone call.

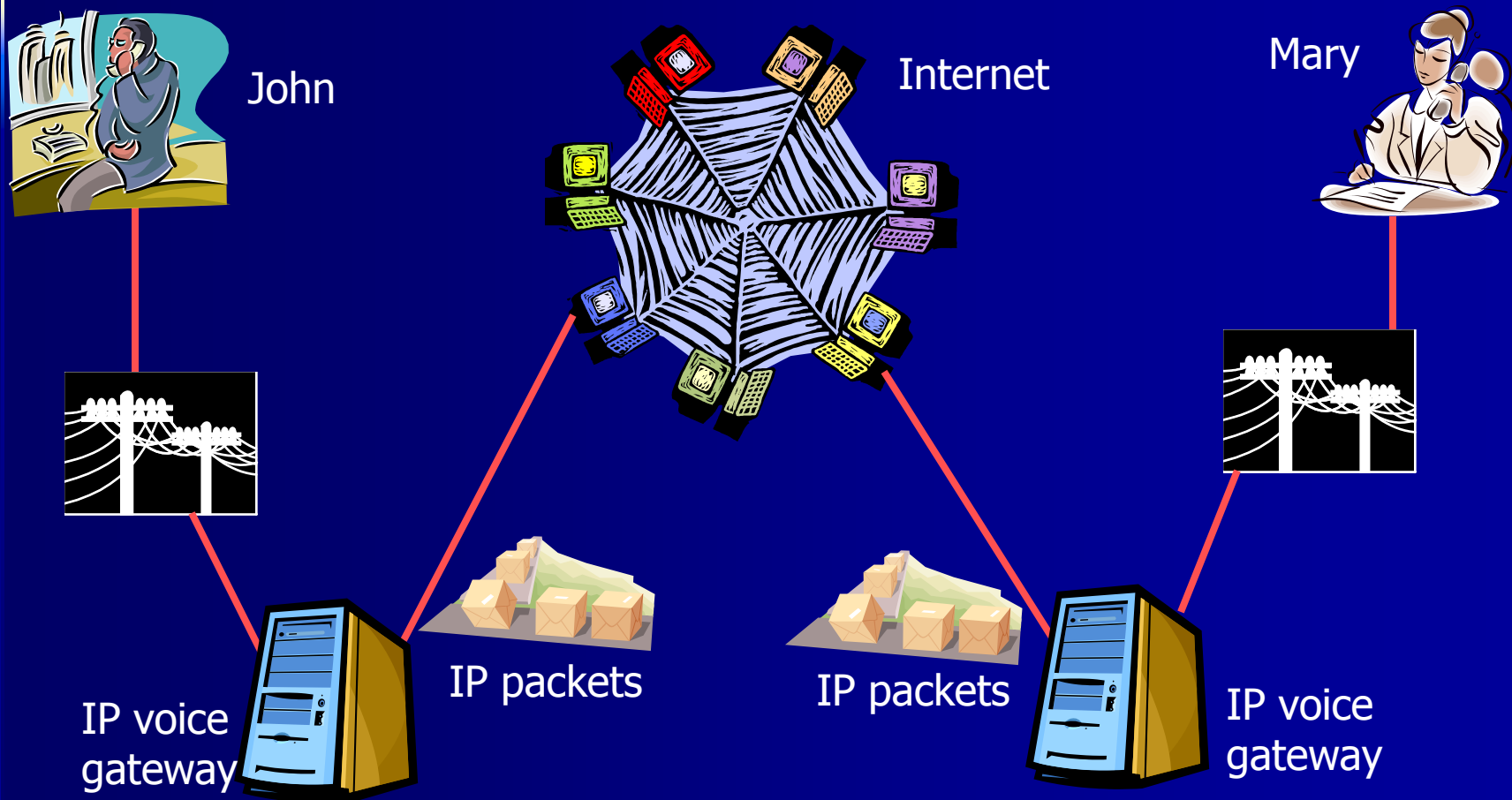


# PSTN connection

- Wireless Services
- Analogue Vs Digital



# Internet Telephony - How does it work?




# Internet Phone - Figures

VocalTec - Telephony products introduction - Microsoft Internet Explorer

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Search Site Map Discl

About VocalTec IP Telephony Solutions Alliances Investor Relations Press Events Careers Sup

HOME Introduction

**VocalTec - the first - and the best - in IP Telephony.**  
 VocalTec solutions enable service providers in over one hundred countries around the world to offer their customers innovative, high margin telecommunications services based on VOIP. Since VocalTec started the IP Telephony revolution in 1995, we have been helping our customers win first place.

- The first VOIP PC software
- The first VOIP gateway
- The first VOIP H.323 v2 gatekeeper
- And we continue to innovate with exciting solutions today...

**First in innovative new services**

Our solutions are as innovative as they are business oriented. Take Voice VPN, allowing carriers to revolutionize the way enterprises communicate; or Voice-enhanced E-commerce, humanizing online transactions with voice and multimedia collaboration. Or choose time proven cash generators like International Long Distance Calling, Pre and Post-paid Calling Cards, and exchange carrier solutions to invigorate your telecommunications business with VOIP.

All our enhanced service offerings reside on top of a voice infrastructure that can be deployed rapidly and at low cost. In addition, our SoftSwitch architecture and superior gatekeeper product, serves as the center point of an open service creation environment for forward-looking enhanced applications.

**First in dedication to quality, reliability and standards**

We serve our service provider clientele with products that are optimized to deliver the highest reliability, flexibility and voice quality, while inter-operating with the equipment of other major VOIP and PSTN vendors.



**First in helping our customers profit and succeed**

dialpadprepaid phonecard - Dialpad Communications, Inc - Microsoft Internet Explorer

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Home My Account Dialpad Store Customer Support

use dialpad from any phone



Use dialpad ...

from any phone ▶

dialpadprepaid phonecard

from a computer ▶

dialpadworld

**dialpadprepaid**phonecard

Enjoy low rates when calling from any phone in the U.S. to over 200 countries around the world with the innovative **dialpadprepaid** phonecard.

**cost comparison table**

Note: All rates are per minute and in U.S. currency.

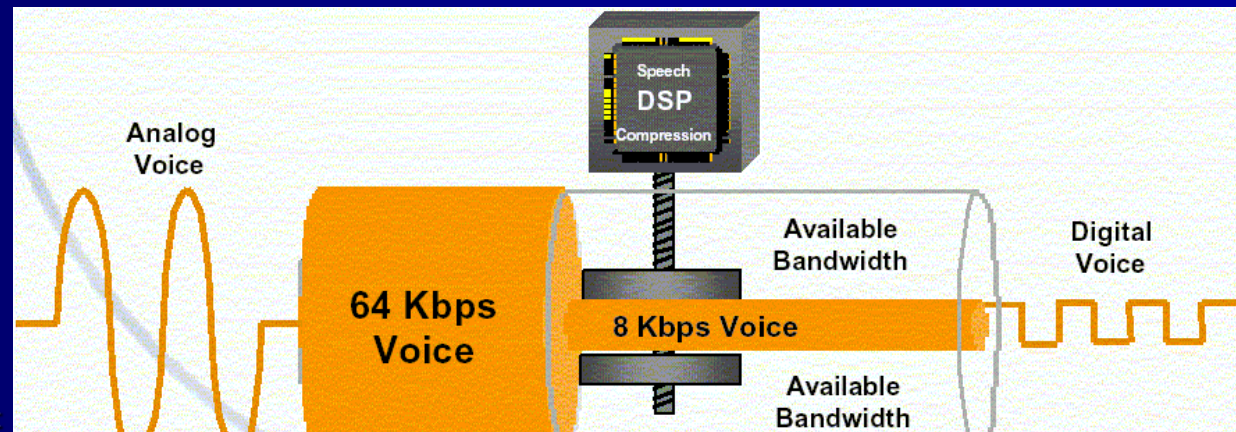
	<b>dialpadprepaid</b> phonecard	*AT&T Prepaid Phone Card	**MCIWorldcom Instant Prepaid Card	***Sprint Prepaid Phone Card
U.S. (continental)	6.7¢	16¢	9¢	22¢
Canada	8.9¢	32¢	16¢	46¢
UK	8.9¢	32¢	18¢	46¢
Spain	11¢	80¢	25¢	92¢
Australia	12¢	64¢	26¢	46¢
Japan, Tokyo	13¢	48¢	27¢	69¢



# Voice over IP (VoIP)



- **Voice over IP** application combines the legacy voice networks and packet networks by allowing both voice and signaling information to be transported over the packet network, the Internet.



# VoIP Devices



**Cisco ATA 186**



**Cisco Voice Gateways**



**Cisco PIX Firewall**



**Cisco 7940 & 7960 IP Phones**

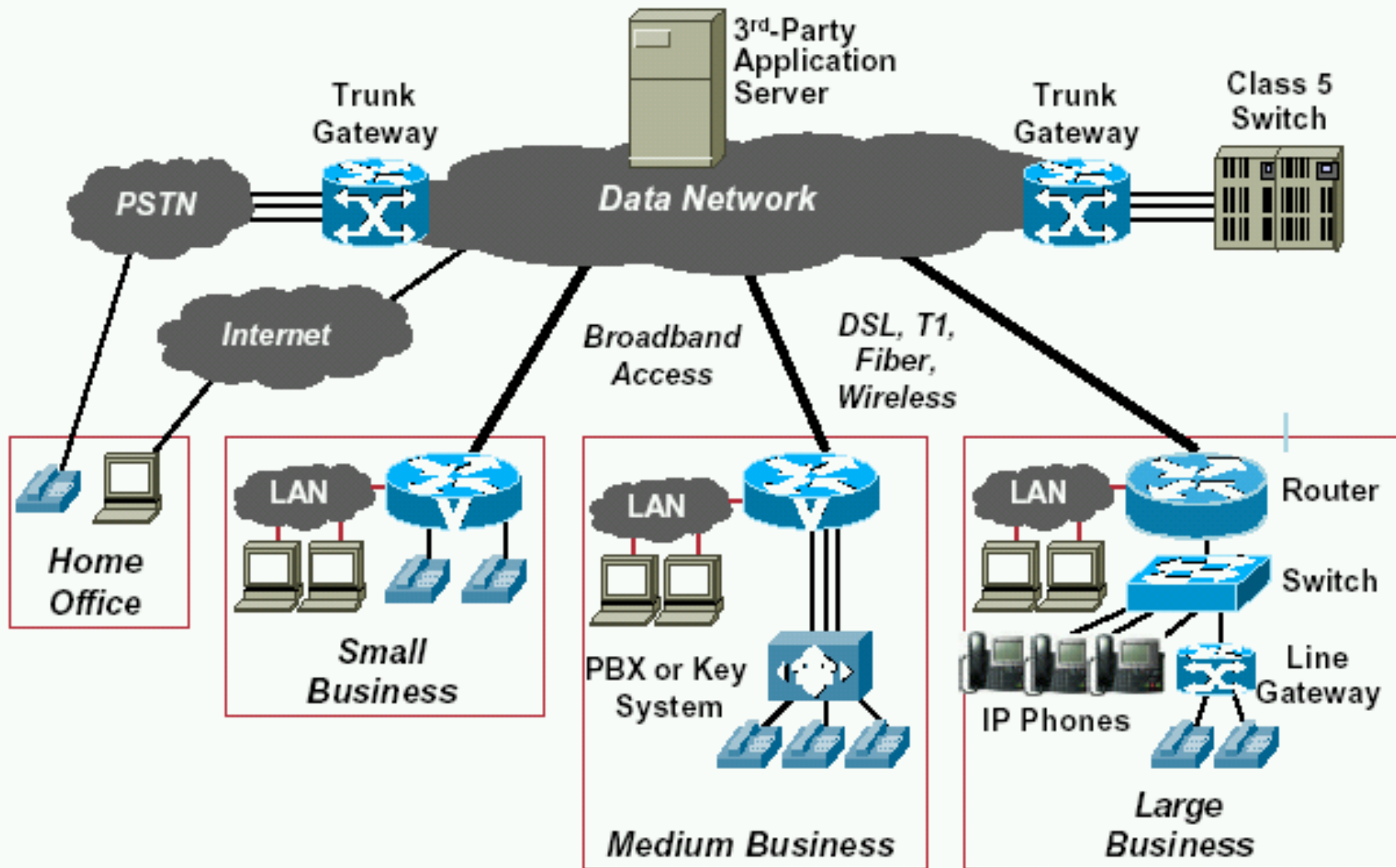


**Cisco Softswitch and Signaling Gateways**



**Cisco SIP Proxy Server**

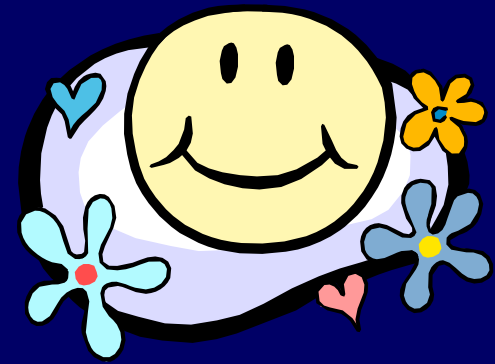
# Unified Network Telephone + Internet



# Why is VoIP so attractive?

- Quote from Nortel Networks
- **Save money:** You can use your existing WAN to transport internal voice traffic. Where traditional voice lines are expensive - international calls, for example - the cost savings can be immense.
- **Simplify:** Where voice and data run on the same network, you can expect significant operational improvements. It's far easier to change IP terminals, for example.
- **Add value:** The most interesting benefits will come from innovative applications and e-business integration, increasing productivity, customer loyalty and competitiveness.

# Assignment



- Newsgroup, Mailing list
- Instant Messaging (IM)
- Bulletin Boards (BBS)
- Internet Relay Chat (IRC)
- Multi-User Dungeon (MUD)
- Web Based Chat

Can you compare them based on “Easy to use”, “Convenience”, “etc...”?

