

TELECOMMUNICATION AND NETWORKING

email



EMAIL

How does email work?

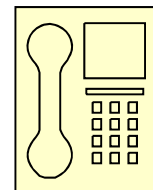
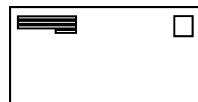


SPAM?
Phone Book?
Mailing List?
MIME?
???

Difference Technology...

- sent electronically across the Internet.
- delivered in seconds or minutes

	Post	Telephone	E-mail
Speed	Very Slow	?	?
Synchronized	?	?	?
Formality	?	?	?



Email : Advantages & Disadvantages

Advantages

Convenience

Fast speed

Inexpensive

Printable

Reliable

Global

Generality (not limited to text, but graphics, programs, even sounds)

Disadvantages

Misdirection

Interception

Forgery

overload

Funk (Spamming)

No response (from the receiver)

Email address



Exmple :

megataman@utm.my
zahirima@streamyx.com.my
megataman@gmail.com

1. “utm.my” - domain name of the **mail server** which handles the recipient's mail.
2. “megataman” is the **user name** of the recipient.
3. User name and hostname are separated by “@”.

Email client

software / program that can transfer e-mail from a local host to a local e-mail server.

Email server

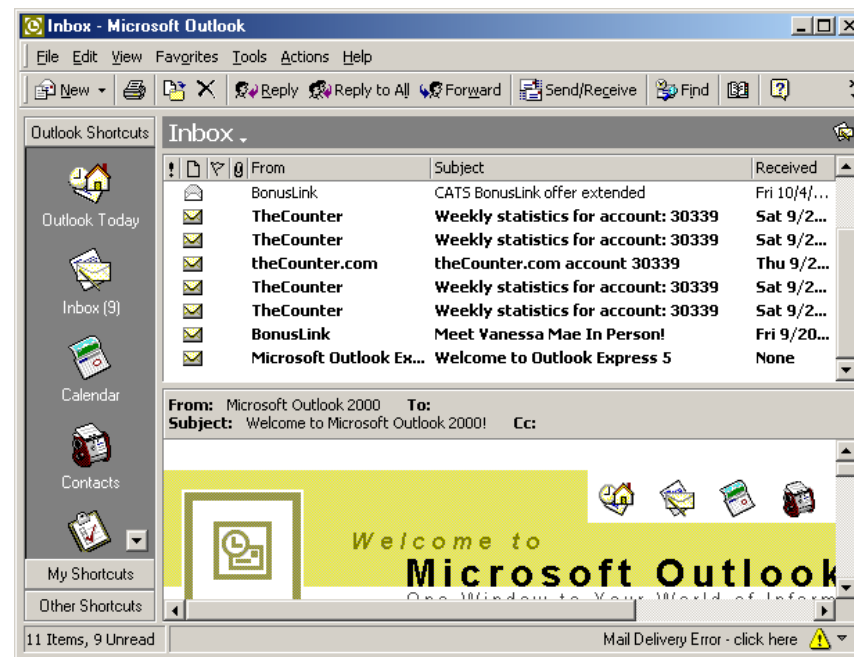
software/program that can send/receive e-mail from/to other email servers.

Mailbox

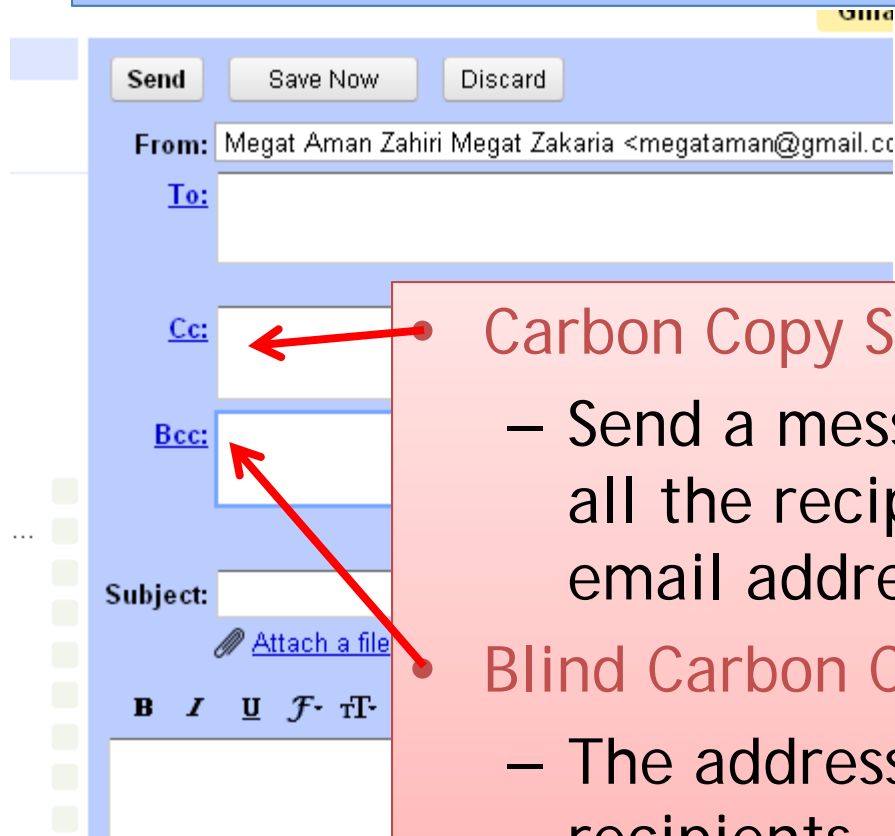
An electronic mailbox is a disk file which holds email messages.

Email software (client)

- GUI (User friendly)
- Examples
 - Microsoft Outlook
 - Thunderbird
 - Netscape Mail
 - ???



Web Base Email



Send Save Now Discard

From: Megat Aman Zahiri Megat Zakaria <megataman@gmail.com>

To:

Cc:

Bcc:

Subject:

Attach a file

B I U ABC T

Carbon Copy Section (cc)

- Send a message to more than one person, all the recipients will see the list of email addresses.

Blind Carbon Copy Section (bcc)

- The addresses won't be seen by the recipients.
- When email is sent to a large group of people who don't know each other.

MIME

- Multi-purpose Internet Mail Extension
- Protocol - transmitting non-text information across the Internet
- MIME - for **multimedia elemen**, such as images, audio recordings, and movies.

MIME

Application	postscript text	Printable postscript document TEX document	.eps, .ps .tex
Audio	midi realaudio wav	Musical Instrument Digital Interface Progressive Networks sound Microsoft sound	.midi, .mid .ra, .ram .wav
Image	gif jpeg png	Grapical Interchange Format Joint Photographic Experts Group Portable Network Graphics	.gif .jpeg, .jpg, .jpe .png
Model	vrml	Virtual Reality Modeling Language	.wrl
Text	html plain	Hypertext Markup Language Unformatted text	.html, .htm .txt
Video	avi mpeg quicktime	Microsoft audio video interleaved Moving Picture Experts Group Apple QuickTime movie	.avi .mpeg, .mpg .qt, .mov

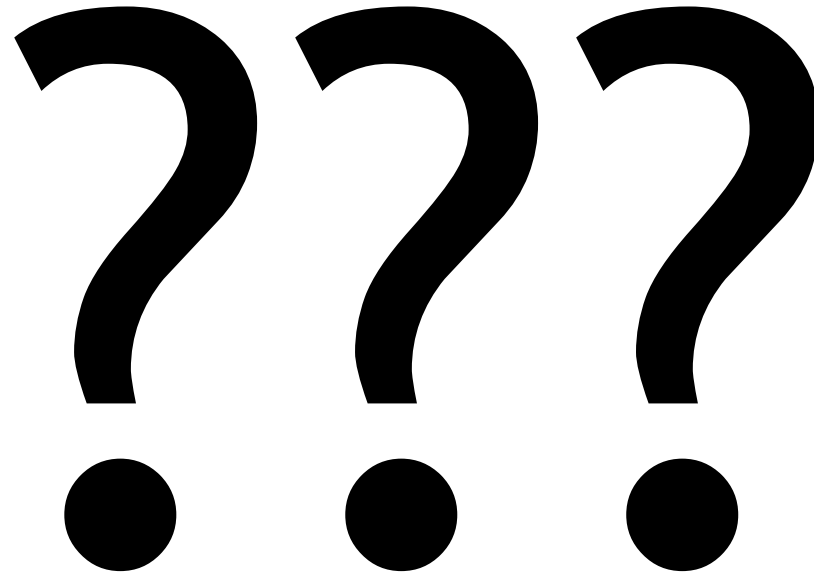
SMTP

(Simple Mail Transfer Protocol)

protocol for sending e-mail messages between servers.

SMTP is generally used to send messages from a mail client to a mail server.

POP (Post Office Protocol)



Advantages



Disadvantages



SPAM

flooding the Internet with many copies of the same message

- Why cause problem?
 - very cheap to send thousands of emails
 - Fraud ...
 - stealing bandwidth
 - Other...

