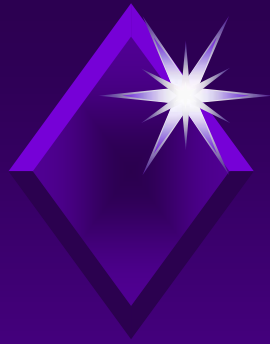




# *Internet for Executives*



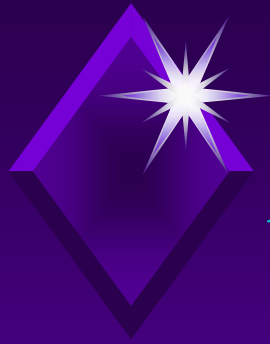
# *Information Superhighway*

- ◆ “Information at your fingertips”
  - ◆ publish + access
- ◆ Information will be
  - ◆ ubiquitous
  - ◆ interactive
  - ◆ high speed
  - ◆ all digital & multimedia



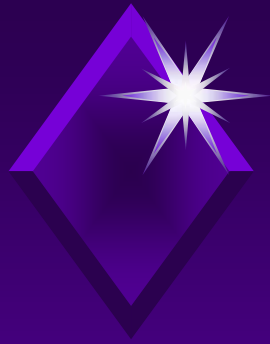
## *Services*

- ◆ Electronic Mail
  - ◆ most popular, a must in your business card
- ◆ Databases
  - ◆ documents, reports, catalogs, FAQ, online news, magazine, radios, movies,...
- ◆ Conferences
  - ◆ discussion groups, online chats,...
- ◆ Remote Accesses

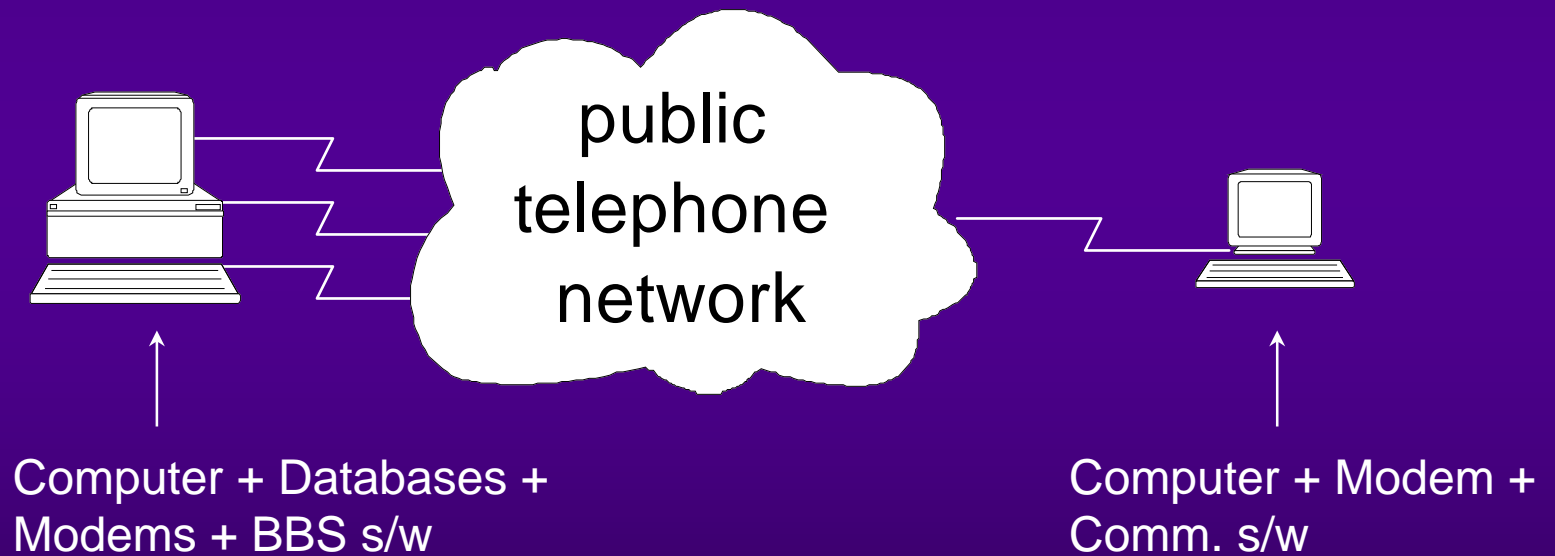


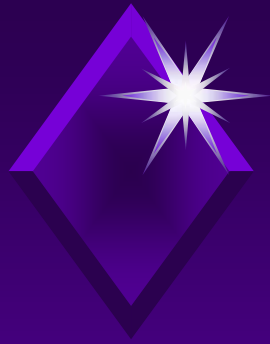
# *Applications*

- ◆ News
- ◆ Education
- ◆ Electronic Commerce
  - ◆ Shopping, Advertising, Business Transaction..
- ◆ Entertainment
- ◆ etc.



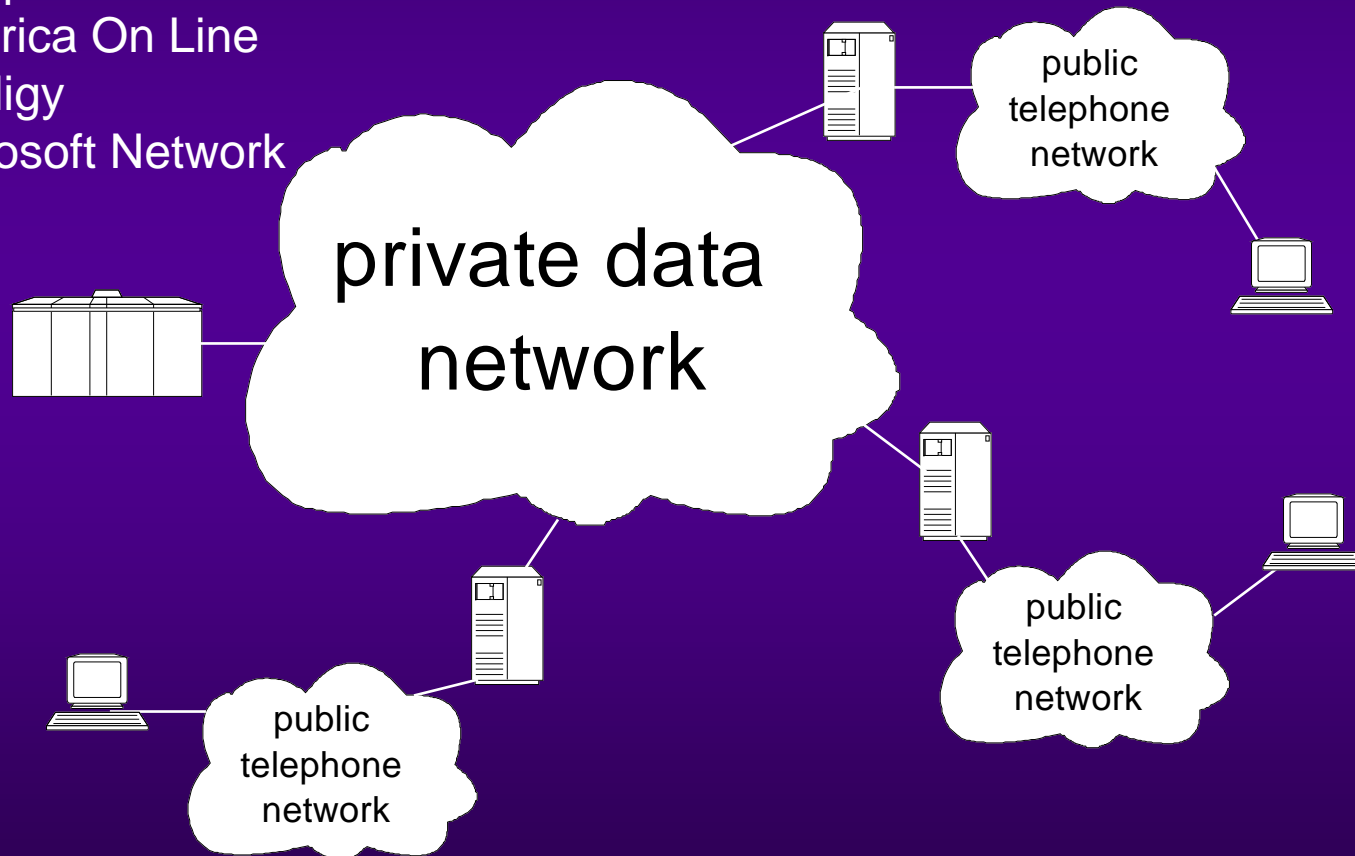
# *Bulletin Board System*





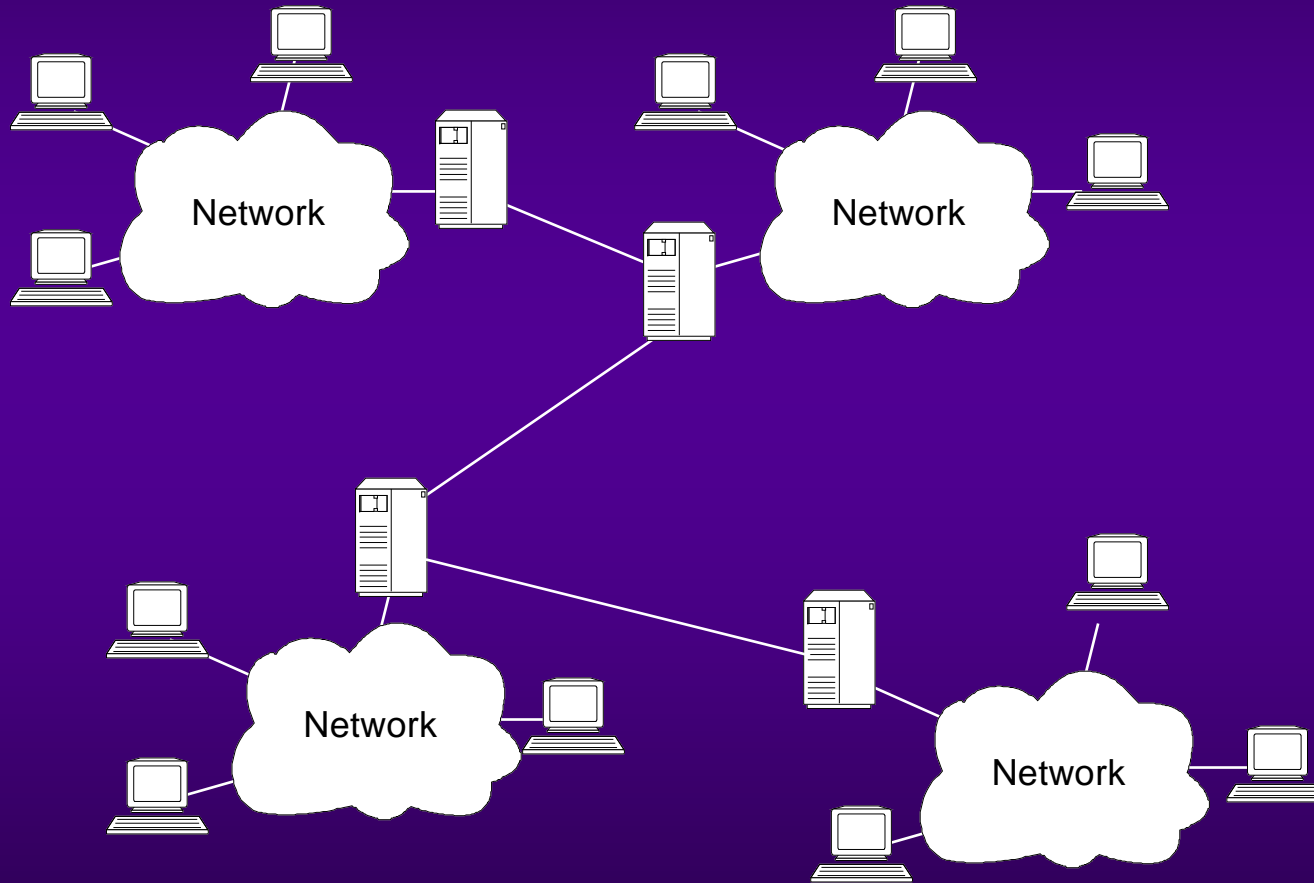
# *Information Network*

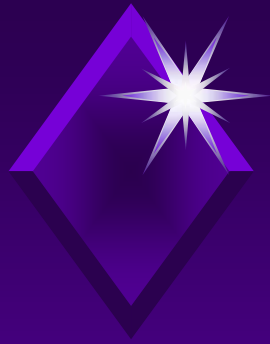
CompuServ  
America On Line  
Prodigy  
Microsoft Network  
...



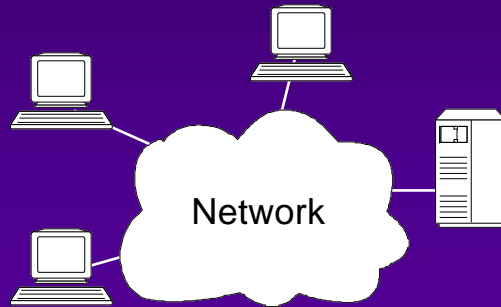


# *Internet*





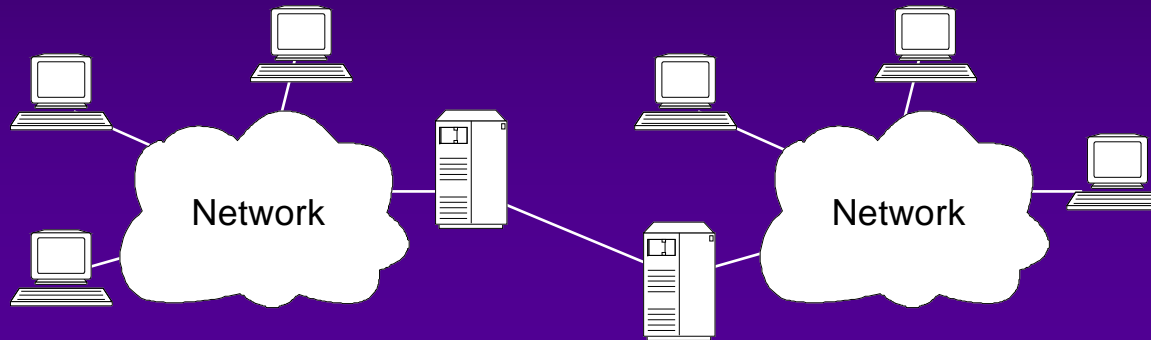
# *Internet*

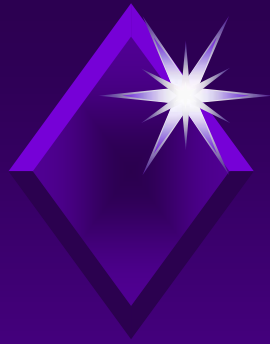




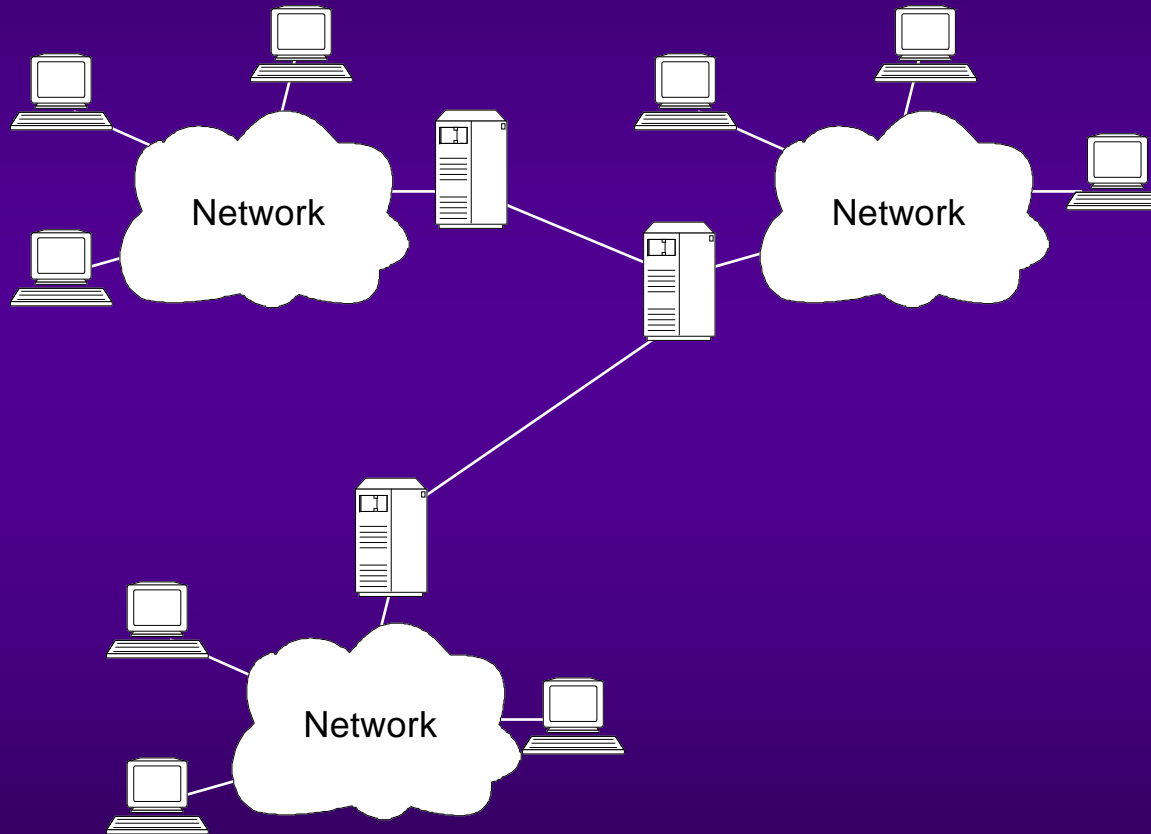


# *Internet*



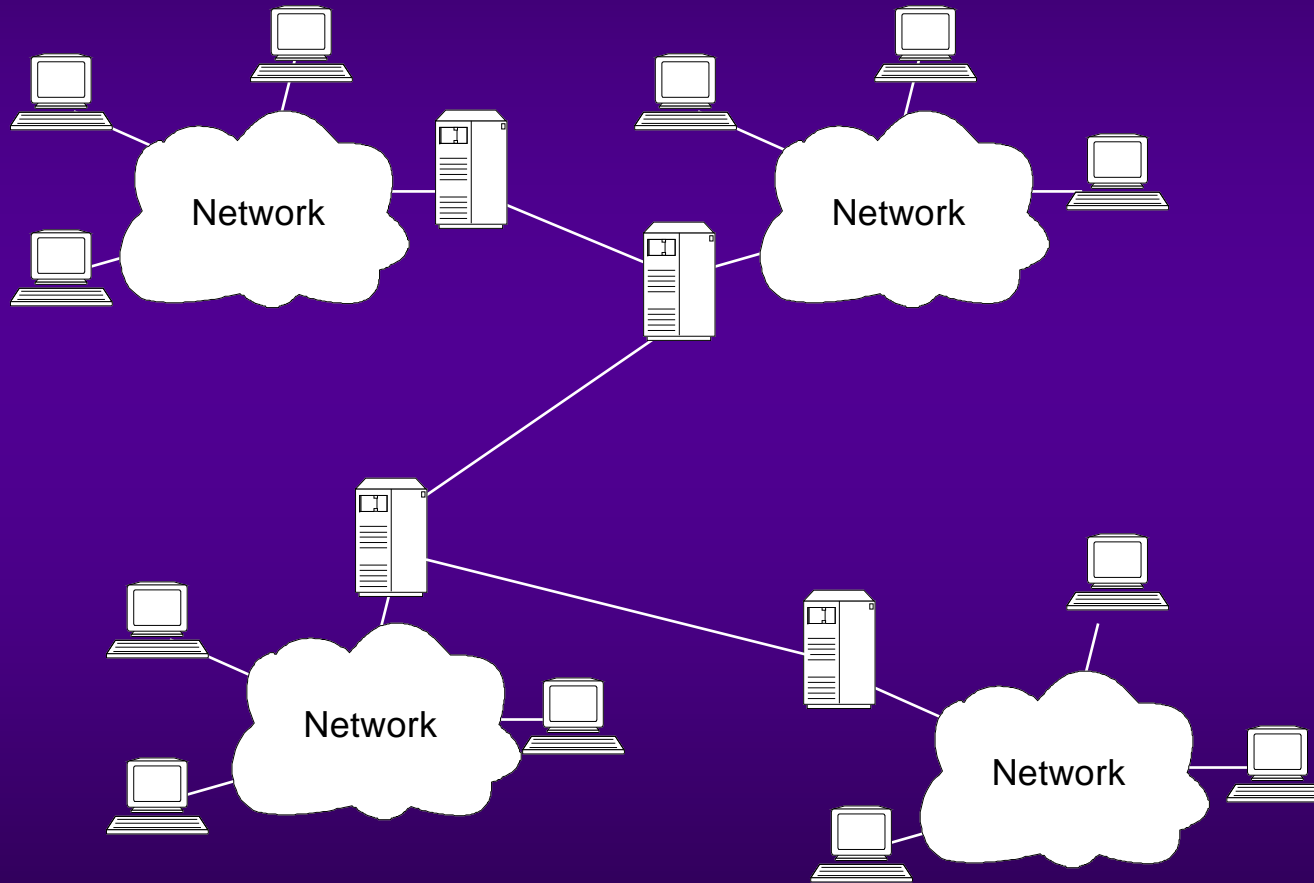


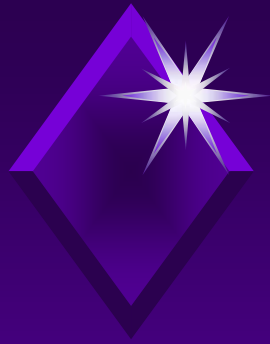
# *Internet*



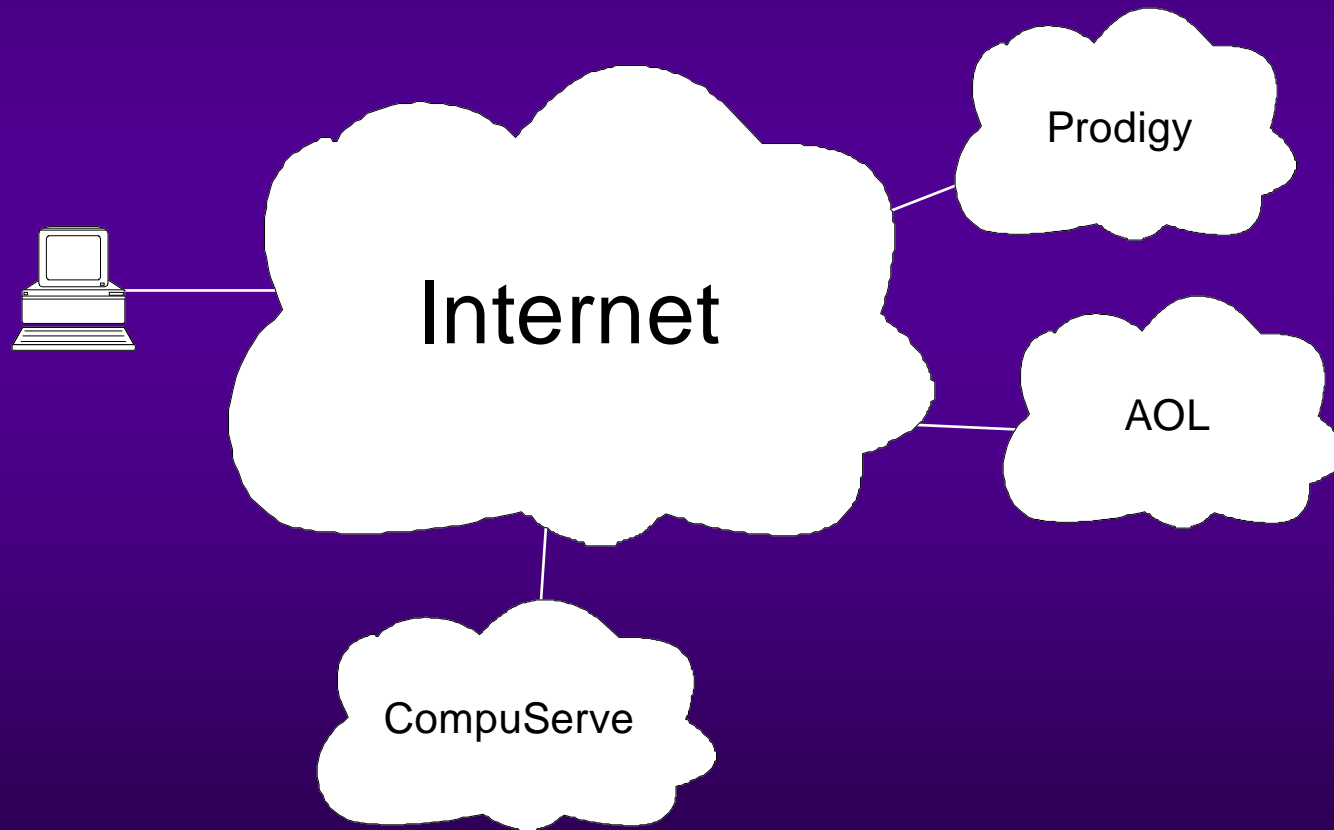


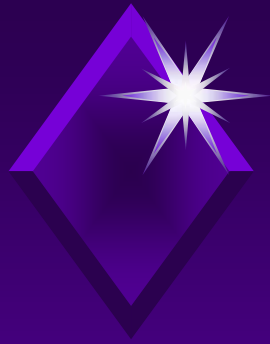
# *Internet*





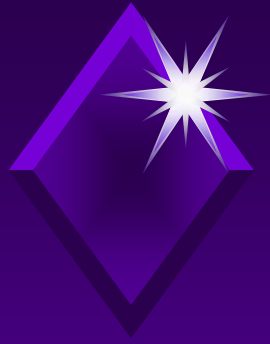
# *The Online Universe*





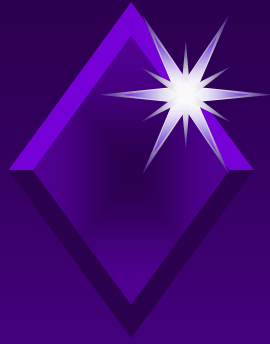
# *Information Superhighway*

- ◆ Not be a single entity
- ◆ Result from multi-organization cooperation
- ◆ Provide high-speed multimedia services
- ◆ Evolve continuously



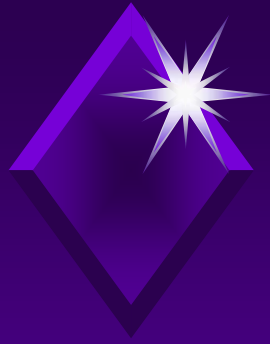
## *On the Road*

- ◆ Wireless access
- ◆ Higher speed
- ◆ Cable TV enhancement
- ◆ Electronic money
- ◆ Secure network protocol



## *Origins of the Internet*

- ◆ Problem : (Late 1960's)
  - ◆ To interconnect different brands of computers used by
    - ◆ Government employees
    - ◆ University researchers
    - ◆ Defense contractors
  - ◆ Reliability & Survivability



# *Origins of the Internet*

- ◆ Solution : (1969)

  - ◆ ARPANET

    - ◆ sponsored by DoD Advanced Research Projects Agency
    - ◆ built around newly created TCP/IP

TCP : Transmission Control Protocol

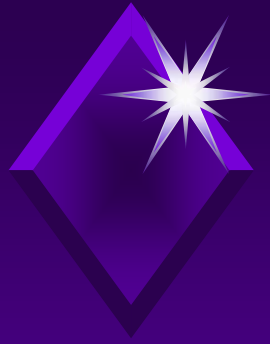
IP : Internet Protocol





## *1970s and early 1980s*

- ◆ Primary use is still from initial constituents
- ◆ Geographic coverage expands
- ◆ System/network numbers grow
- ◆ Usage increases significantly
- ◆ ARPANET split into : Milnet + Internet



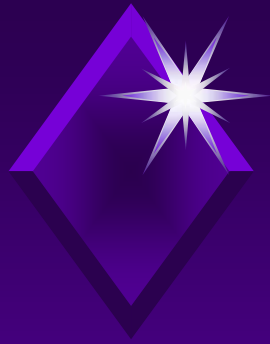
## *Mid to late '80s*

- ◆ Rapid implementation of TCP/IP
- ◆ TCP/IP exist for nearly every brands of computers

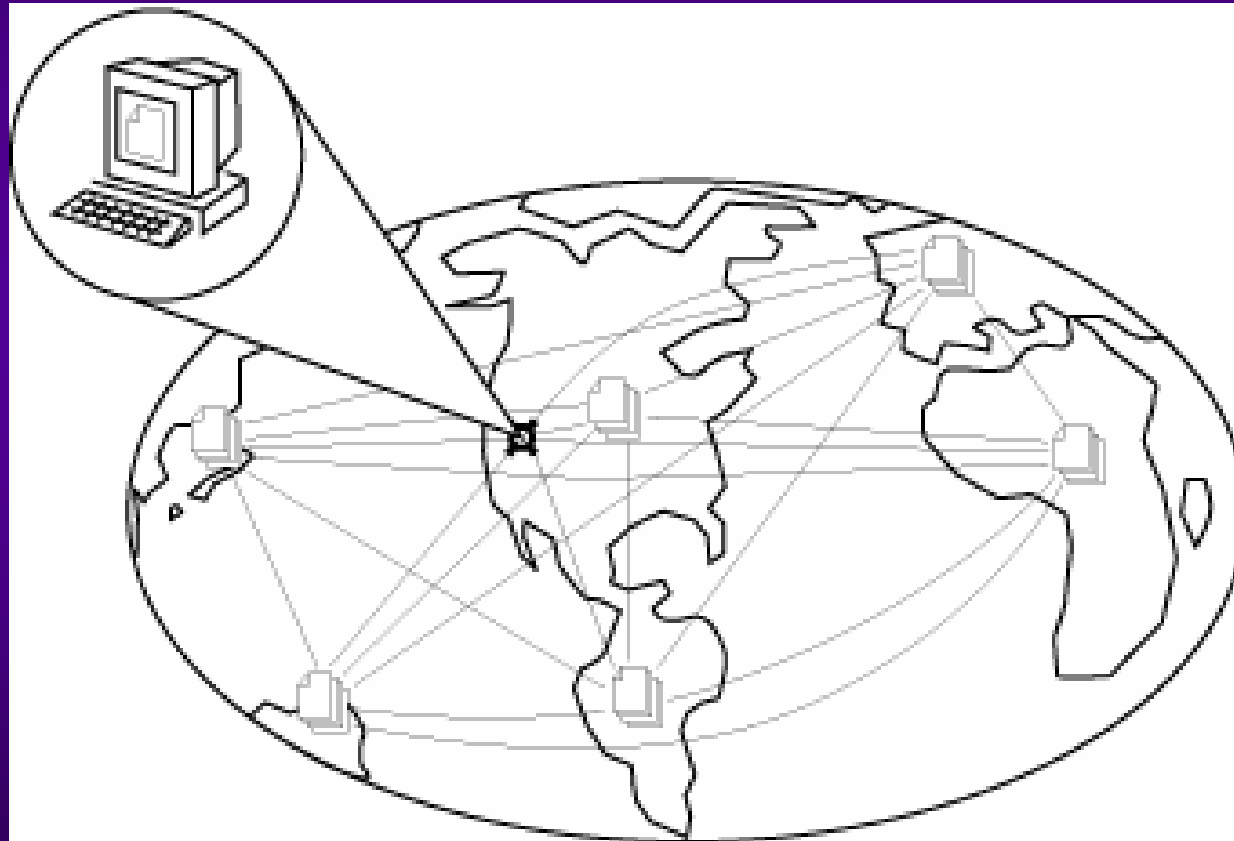


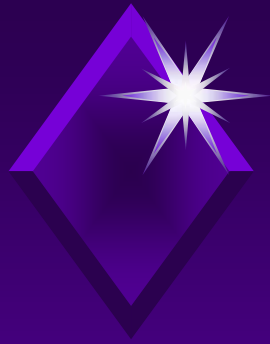
*1990s*

- ◆ TCP/IP is internetworking
- ◆ Multi-billion dollar market for TCP/IP products and services
- ◆ Public domain & commercial implementations exist for nearly every type of computer.



# *Internet Boom*

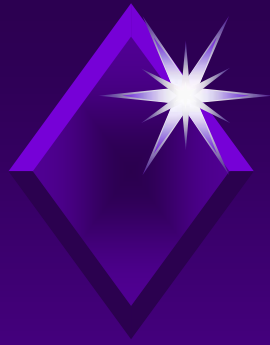




# *Internet Statistics*

- ◆ 72,250,000 people (Aug. 1996)
- ◆ 556,000 WWW sites (Aug. 1996)
- ◆ 12,881,000 hosts (July 1996)
- ◆ 488,000 domains (July 1996)
- ◆ 3,054 ISPs (July 1996)
- ◆ 316,271 domains in .COM (April 1996)

Source : <http://lcweb.loc.gov/global/internet/inet-stats.html>



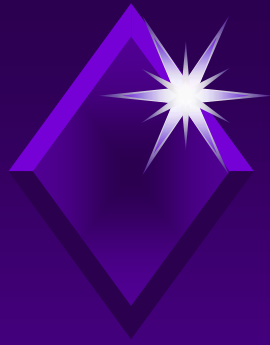
## *Internet Today*

- ◆ No organization owns it
- ◆ No organization controls it
- ◆ Usage is largely free once connected
- ◆ No centrally maintained directories or indexes



## *What's on the Net ?*

- ◆ Nearly anything you can imagine, and
- ◆ A lot more that you can't ...
  
- ◆ Millions of WWW pages
- ◆ 10,000+ Newsgroups
- ◆ 5000+ mailing lists



## *What's on the Net ?*

- ◆ Millions of computers
- ◆ Millions of users
- ◆ Millions of files



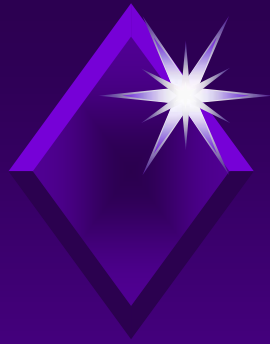


## *Name and Addressing*

- ◆ Every internet host has unique
  - ◆ IP address
  - ◆ host name
- ◆ Host names are grouped within domain name

hosts	: cpu.cp.eng.chula.ac.th	161.200.137.11
	: kaew.cp.eng.chula.ac.th	161.200.137.12
	: mali.cp.eng.chula.ac.th	161.200.137.13

domain : cp.eng.chula.ac.th

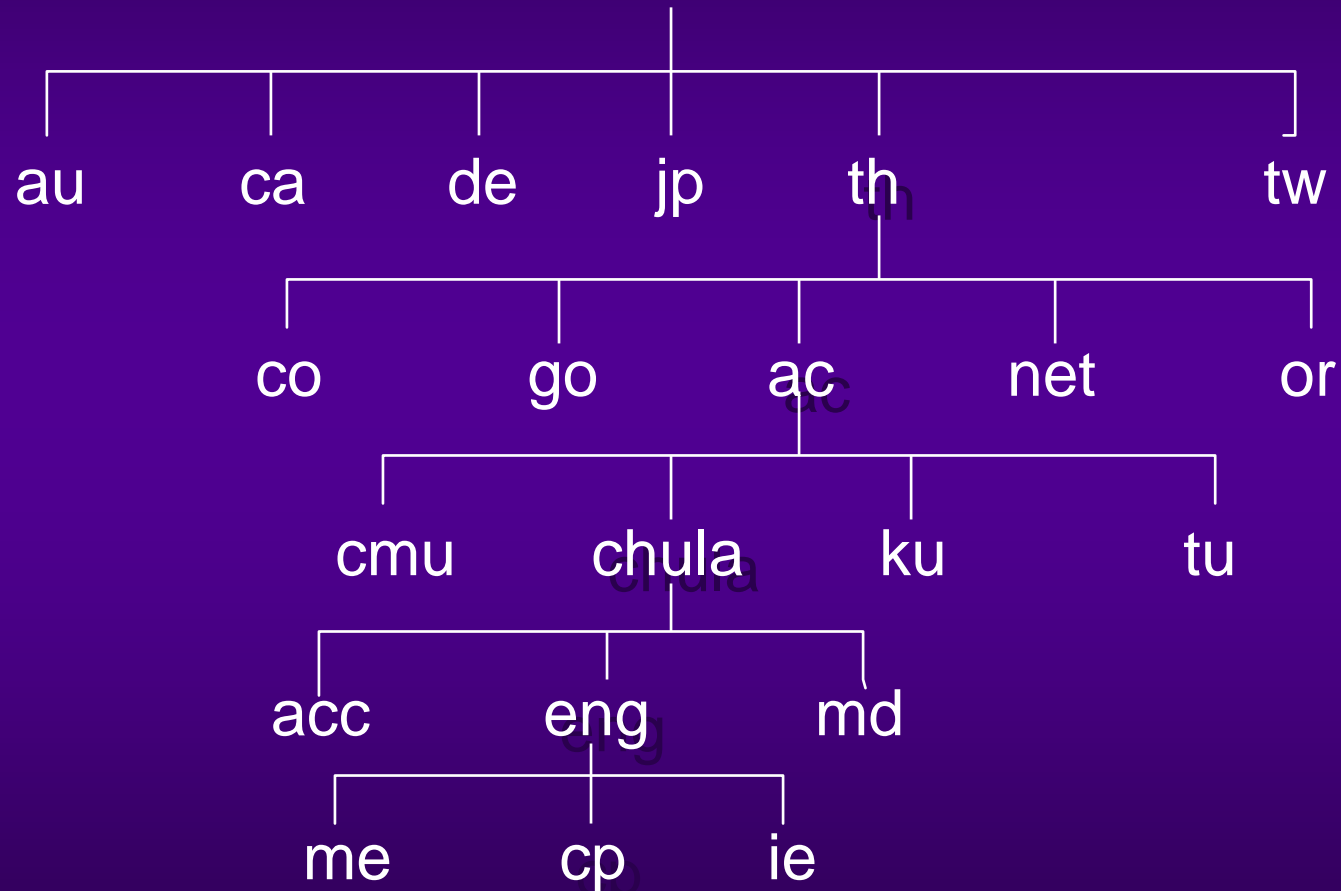


# *Host Names*

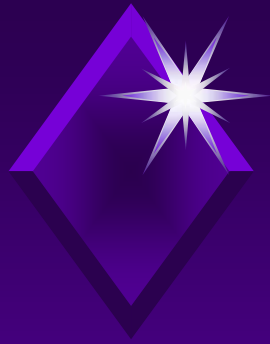
Host Name	Name	Domain Name
www.chula.ac.th	www	chula.ac.th
ftp.microsoft.com	ftp	microsoft.com
www.internic.net	www	internic.net



# *Domain Name*

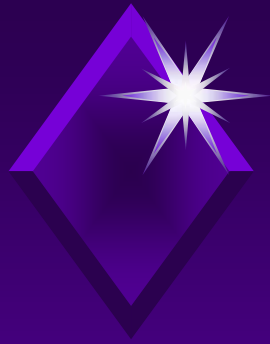


cp.eng.chula.ac.th



## *Top-Level Domain Names*

- ◆ gov      government
- ◆ edu      education institution
- ◆ com      commercial organization
- ◆ mil      military
- ◆ net      network resource
- ◆ org      other organization
- ◆ xx      country designation  
(ca, au, fr, de, jp, th, ch, ...)



## *Statistics (July 1996)*

### ◆ Number of hosts

◆ .COM 3,323,647

◆ .EDU 2,114,851

◆ .NET 1,232,902

### ◆ Host names

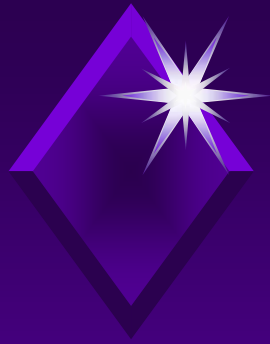
◆ www 212,155

◆ mail 27,758

◆ ftp 27,292

◆ ns 25,649

Source : <http://www.nw.com/>



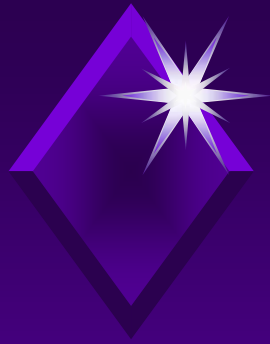
## *IP Addresses*

- ◆ uniquely identify a host on a TCP/IP network
- ◆ specify routing information in an internetwork
- ◆ 32-bit address, usually represented in dotted decimal notation  
e.g. 161.200.138.77



## *IP Addresses*

- ◆ IP address = network ID + host ID
- ◆ Network ID
  - ◆ identify a group of computers in a LAN
- ◆ Host ID
  - ◆ identify a computer within a particular network ID



## *IP Addresses*

chulkn.car.chula.ac.th	161.200.145.5
mail.car.chula.ac.th	161.200.145.4
vlsi.cp.eng.chula.ac.th	161.200.138.77
galae.eng.chula.ac.th	161.200.88.1
md4.md.chula.ac.th	161.200.96.100

Network ID 161.200.xxx.xxx

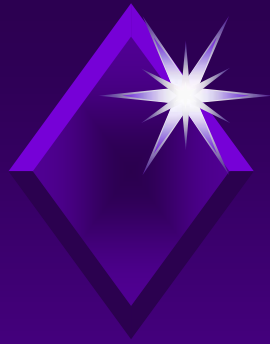




# *IP Address Classes*

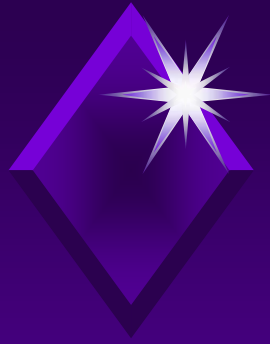
<b>Class</b>	<b>w value</b>	<b>Network ID</b>	<b>Host ID</b>	<b>#Networks</b>	<b>#Hosts/net</b>
<b>A</b>	<b>1-126</b>	<b>w</b>	<b>x.y.z</b>	<b>126</b>	<b>16,777,214</b>
<b>B</b>	<b>128-191</b>	<b>w.x</b>	<b>y.z</b>	<b>16,384</b>	<b>65,534</b>
<b>C</b>	<b>192-223</b>	<b>w.x.y</b>	<b>z</b>	<b>2,097,151</b>	<b>254</b>

w.x.y.z



## *Resolving Addresses*

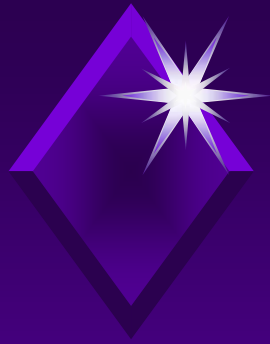
- ◆ human : host names
- ◆ h/w + s/w : IP addresses
- ◆ Host names must be resolved to IP addressed when used.
  - ◆ Domain Name Servers (DNS) do the host name to IP addr. mapping.



## *E-Mail Addresses*

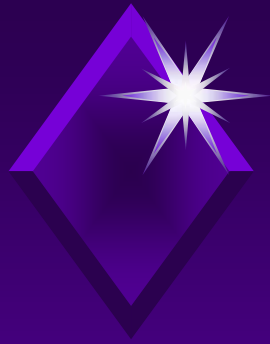
- ◆ cww@chulkn.car.chula.ac.th
- ◆ webmaster@www.chula.ac.th
- ◆ president@whitehouse.gov
- ◆ 72712.1057@compuserve.com

UserName @ HostName



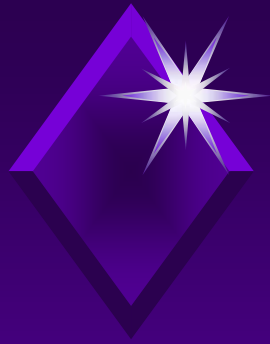
## *Finding People on the Net*

- ◆ finger, whois
- ◆ Four11
- ◆ WhoWhere
- ◆ BigFoot
- ◆ Internet Address Finder (IAF)
- ◆ OKRA
- ◆ SwitchBoard



## *Services in Internet*

- ◆ Electronic mail
- ◆ File transfer
- ◆ Remote system log-on
- ◆ Network News
- ◆ Internet Navigators



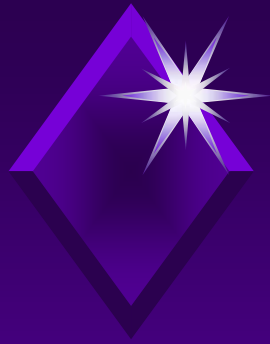
## *Electronic Mail*

- ◆ The most popular services
  - ◆ At InterNIC email:tel. ratio is 4.8:1
- ◆ Each user has his/her own mailbox
- ◆ Mail contains text + multimedia digital contents as attachments
- ◆ Mail can be replied, forwarded, and kept in an organized manner.



## *Email S/W*

- ◆ Online read/write mails at the postoffice
- ◆ Offline
  - ◆ Download mails to your machine from the postoffice mailbox, and read them offline.
  - ◆ Write mails offline on your machine and upload the mails to the postoffice.
- ◆ Mail S/W
  - ◆ Pine, EUDORA, MS Exchange, Netscape Navigator



## *Postmaster*

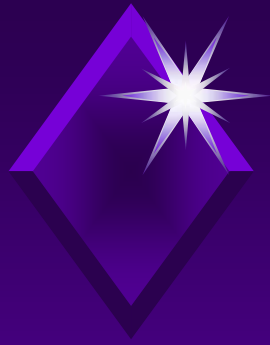
- ◆ Most systems have address of `postmaster@<hostname>`
- ◆ Use if you have difficulty with mail to/from particular system
- ◆ Use as last resort to get someone's email addr. if you know their host name.





## *File Transfer*

- ◆ File transfer between Internet hosts.
- ◆ Archives for documents, reports, manuals, specifications, FAQ, softwares, updates, patches,...
- ◆ Require access right on remote system
  - ◆ anonymous ftp provides public ftp access
  - ◆ User ID : anonymous
  - ◆ Password : <email address> often optional



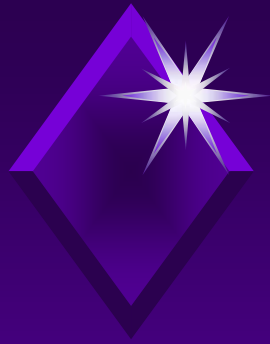
## *File Transfer*

- ◆ Command :  
ftp <hostname>
- ◆ Commands to navigate remote system directories
  - ◆ cd, ls, dir, get, mget, binary, ascii, ...
- ◆ Remember to set proper transfer modes
  - ◆ ascii mode for text files
  - ◆ binary mode otherwise.



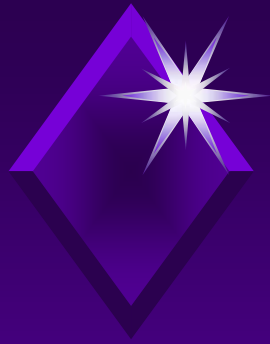
## *Telnet : Remote Log-on*

- ◆ Remotely connect to another system
- ◆ After connected, local computer acts as a terminal of the remote system
- ◆ Need access right
- ◆ command :  
telnet <hostname>



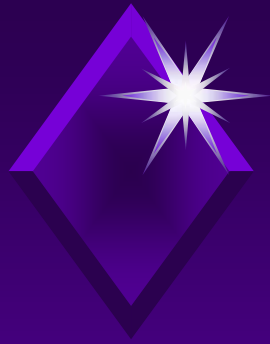
## *Network News*

- ◆ Provide free-form discussion group among Internet users, aka Newsgroup
- ◆ Thousands newsgroups available
  - ◆ # newsgroups at your ISP may varies
- ◆ Largely unmoderated
- ◆ Subscribe only groups of interest
- ◆ Free / Fee
- ◆ USENET news (predated the Internet)



## *USENET News*

- ◆ Seven official USENET groups
  - ◆ comp      computers
  - ◆ news      news
  - ◆ rec      recreation, arts, hobbies
  - ◆ sci      sci research
  - ◆ soc      social issues
  - ◆ talk      controversial topics
  - ◆ misc      everything else



# *USENET News*

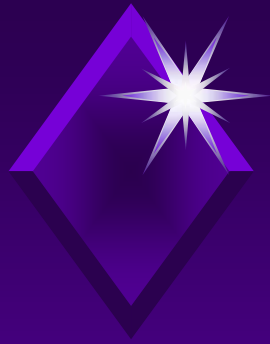
## ◆ Examples

- ◆ comp.arch
- ◆ news.announce.newusers
- ◆ rec.games.video.sony
- ◆ sci.math
- ◆ soc.culture.thai
- ◆ talk.abortion



## *Other Network News*

- ◆ alt      incredibly diverse, some bizarre
- ◆ ieee     IEEE society related topics
- ◆ biz      business
- ◆ de      in Germany
- ◆ k12     K-12 education
- ◆ etc...



## *Network News S/W*

- ◆ Various commands
  - ◆ subscribe, unsubscribe, read, post, thread,...
- ◆ Softwares
  - ◆ rn, nn, rtin
  - ◆ Netscape Navigator
  - ◆ MS Internet News
  - ◆ etc...





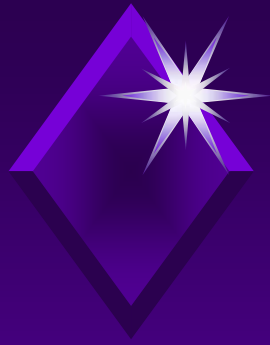
## *Finding Information on the Net*

### ◆ Archie

- ◆ Search tool for ftp sites
- ◆ Indexes are periodically updated

### ◆ Gopher

- ◆ Menuing system for finding Internet resources
- ◆ Move from menu to menu to access other servers transparently



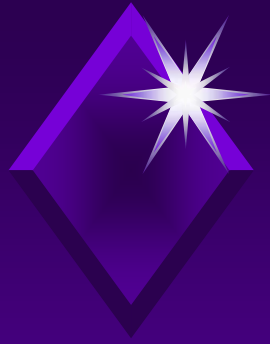
## *Finding Information on the Net*

- ◆ Veronica

- ◆ Search tool for gopher sites

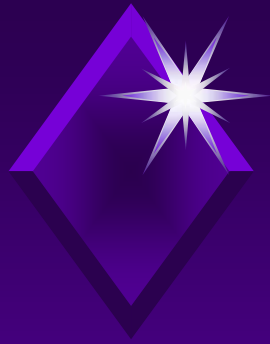
- ◆ WAIS

- ◆ Wide Area Information Service
- ◆ Search indexed collections of database, articles, catalogs, and whatever someone chooses to index.

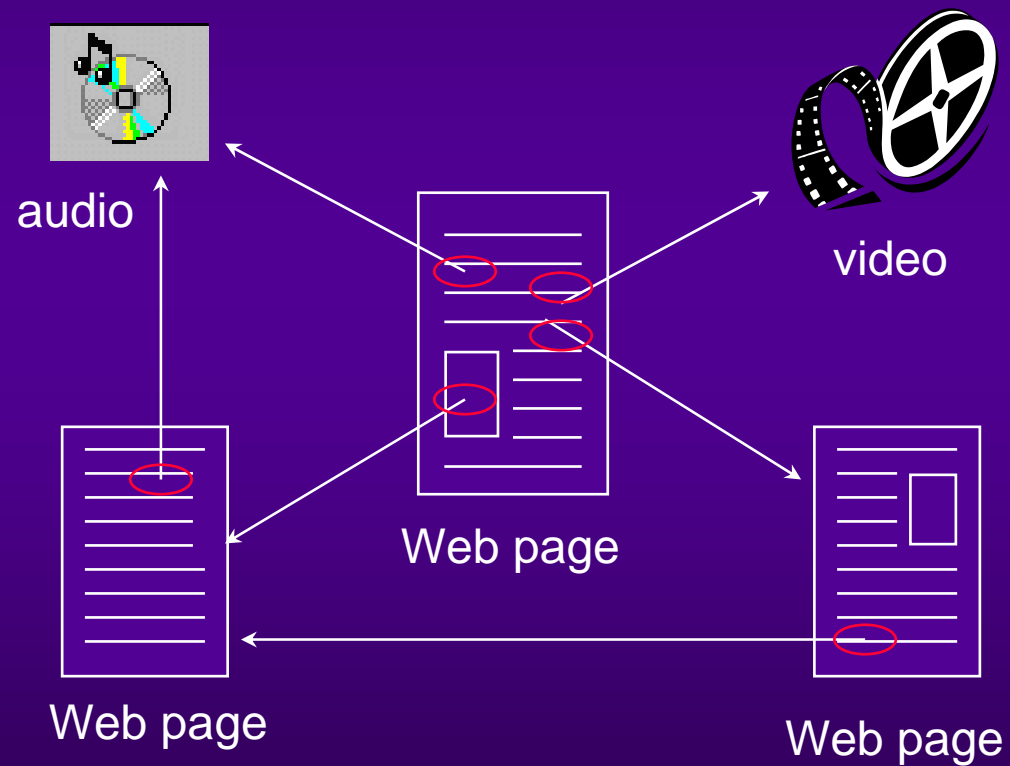


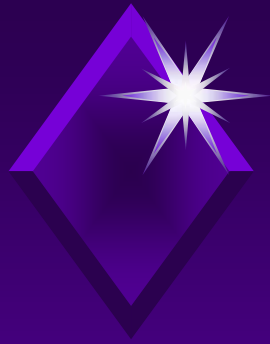
## *Finding Information on the Net*

- ◆ WWW : World Wide Web
  - ◆ Conceived by Tim Berners-Lee
  - ◆ at CERN (European Particle Physics Laboratory in Geneva)
  - ◆ Began in 1990
  - ◆ Based on the premise that everything (resource) is connected to everything else.



# *World Wide Web*





# Home Page

Netscape - [Somchai Prasitjutrakul]

File Edit View Go Bookmarks Options Directory Window Help

Somchai Prasitjutrakul

What's new  
Weekly schedule  
2110211  
2110301  
2110427  
2110622  
Field of interests  
Publications  
Education  
Reading Room  
Family  
Thai Riddles


Computer  
Engineering  
Faculty of  
Engineering  
Chulalongkorn  
University

1799

สมชาย ประสิทธิ์จตุระกุล

## What's New

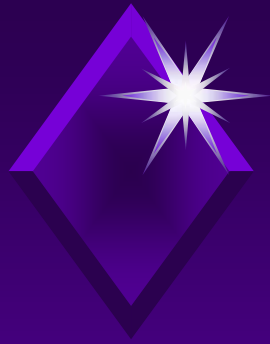
### Picture of the Connection



© Copyright 1995. Thai Information Publishing System Co., Ltd. All rights reserved

- [Embedding Font Face for Displaying Thai on Netscape & Internet Explorer](#)(July 18, 1996)

ที่แม่อยู่คนเดียวไม่คอยเห็นตัวตาย



## *World Wide Web*

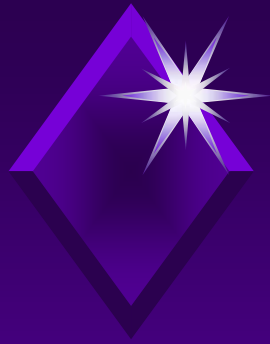
- ◆ “Home Page” is a starting point of exploration
  - ◆ No top or root
  - ◆ No entry point is any more logical than any other.
- ◆ Intended to let users discover and obtain useful information merely by following links from place to place.



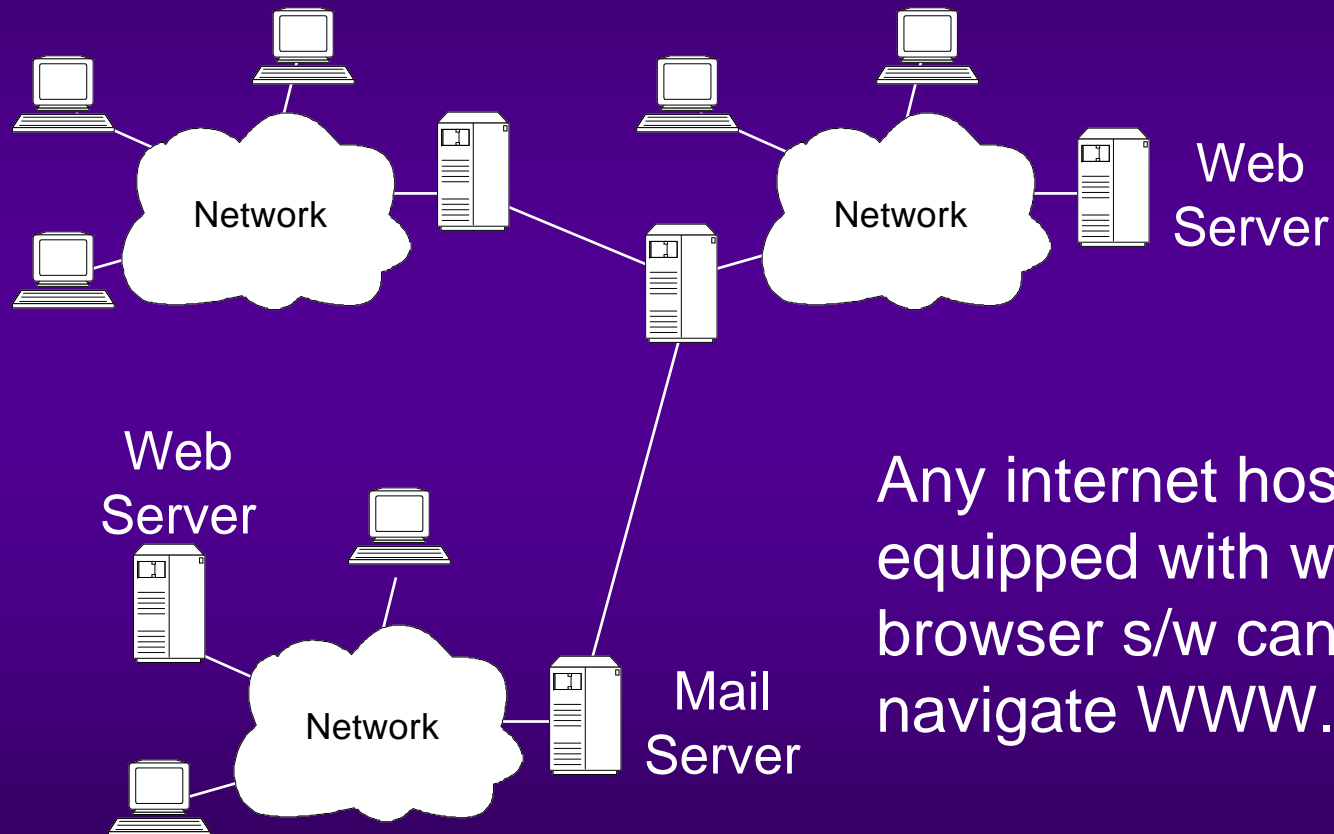
## *Definition*

- ◆ “Global, interactive, dynamic, cross-platform, distributed, graphical hypertext information system that runs over the Internet”

*Lemay : Teach Yourself Web Publishing in a Week*



# *Web Servers & Web Browsers*



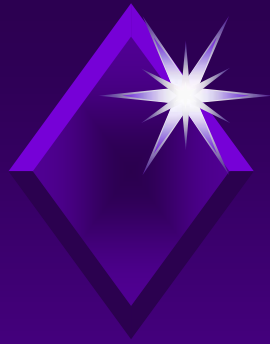
Any internet host equipped with web browser s/w can navigate WWW.





## *Web Servers*

- ◆ Store & distribute web pages
- ◆ Response to browsing requests
  - ◆ static pages
  - ◆ dynamic pages
- ◆ Act as a conduit between internet users and local database
- ◆ Keep connection logs and support authentication



## *Web Browsers*

- ◆ A Graphical user interface S/W for web browsing and also for
  - ◆ mail upload/download
  - ◆ news posting/reading
  - ◆ web pages publishing
  - ◆ etc...
- ◆ Communicate with web servers using HTTP (HyperText Transfer Protocol)



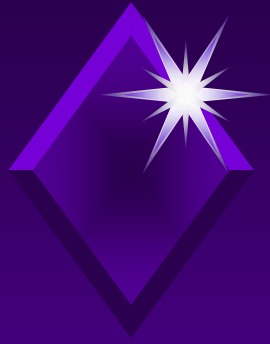
# *Servers & Browsers*

## ◆ Servers

- ◆ Apache
- ◆ NCSA
- ◆ Netscape Fasttrack
- ◆ MS Internet Information Server
- ◆ WebSite
- ◆ etc...

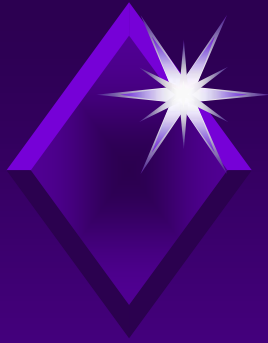
## ◆ Browsers

- ◆ Netscape Navigator
- ◆ MS Internet Explorer
- ◆ NCSA Mosaic
- ◆ etc...



## *Web Page : HTML*

- ◆ HyperText Markup Language
- ◆ Standard format for creating web pages and specifying links
- ◆ Currently HTML 3.2 (Aug. 96)
- ◆ Support rich hypermedia contents
  - ◆ formatted text, picture, audio, video, table, frame, etc...

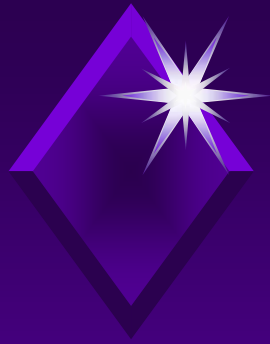


# *HTML : Example*

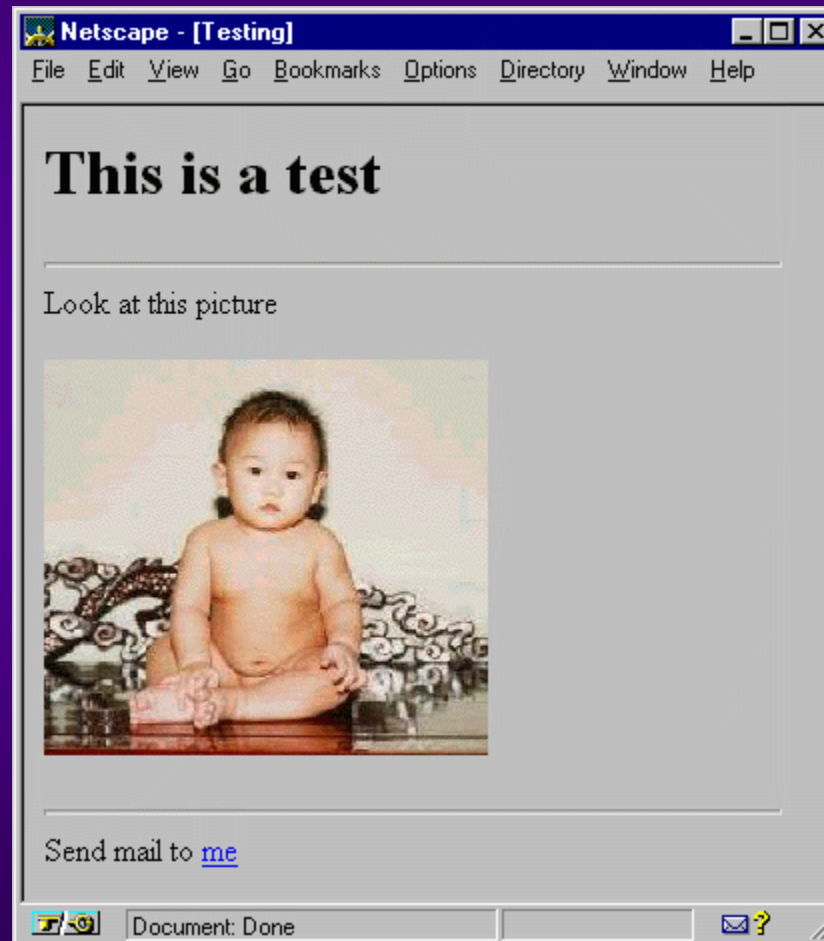
```
<HTML>
<HEAD><TITLE>Testing</TITLE></HEAD>

<BODY>
<H1>This is a test</H1>
<HR>
Look at this picture
<P><IMG SRC="MySon.JPG"></P>
<HR>
Send mail to
<A HREF="spj@www.cp.eng.chula.ac.th">me</A>
</BODY>

</HTML>
```

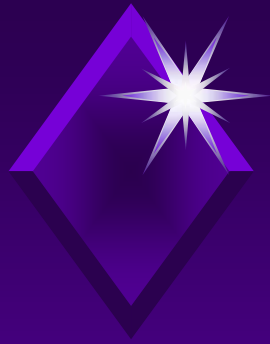


# HTML : Example





- ◆ Universal Resource Locator (URL)
  - ◆ Define link to resource
  - ◆ protocol + machine name + resource
  - ◆ Examples :
    - ◆ <http://www.set.or.th/>
    - ◆ <http://www.tv5.co.th/>
    - ◆ <http://www.cp.eng.chula.ac.th/faculty/spj>
    - ◆ <ftp://ftp.microsoft.com/mslfiles>
    - ◆ <file:///c:/mypage.htm>



# Internet Search Services

- ◆ Yahoo
- ◆ Infoseek
- ◆ Excite
- ◆ Lycos
- ◆ Magellan
- ◆ Altavista

**NET SEARCH**

Yahoo	Infoseek	Lycos	Magellan	Excite
-------	----------	-------	----------	--------

**infoseek®** The best way to find what you want on the Net

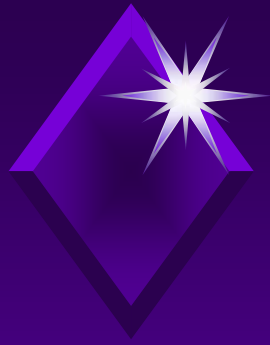
Type a question, topic, or name (or narrow it down with [quick tips](#)):

   **THE WEB'S BIGGEST DIRECTORY**

<a href="#">Entertainment</a>	<a href="#">Sports</a>
<a href="#">Business</a>	<a href="#">Politics</a>
<a href="#">Computers</a>	<a href="#">Education</a>
<a href="#">Technology</a>	<a href="#">Travel</a>

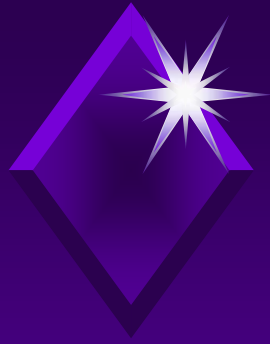
 [Find E-mail](#)  [Find Stocks](#)  [Street Maps](#)  [Click Here](#)





# *Gettting Connected*

- ◆ Hardware
- ◆ Software
- ◆ Connection
- ◆ People

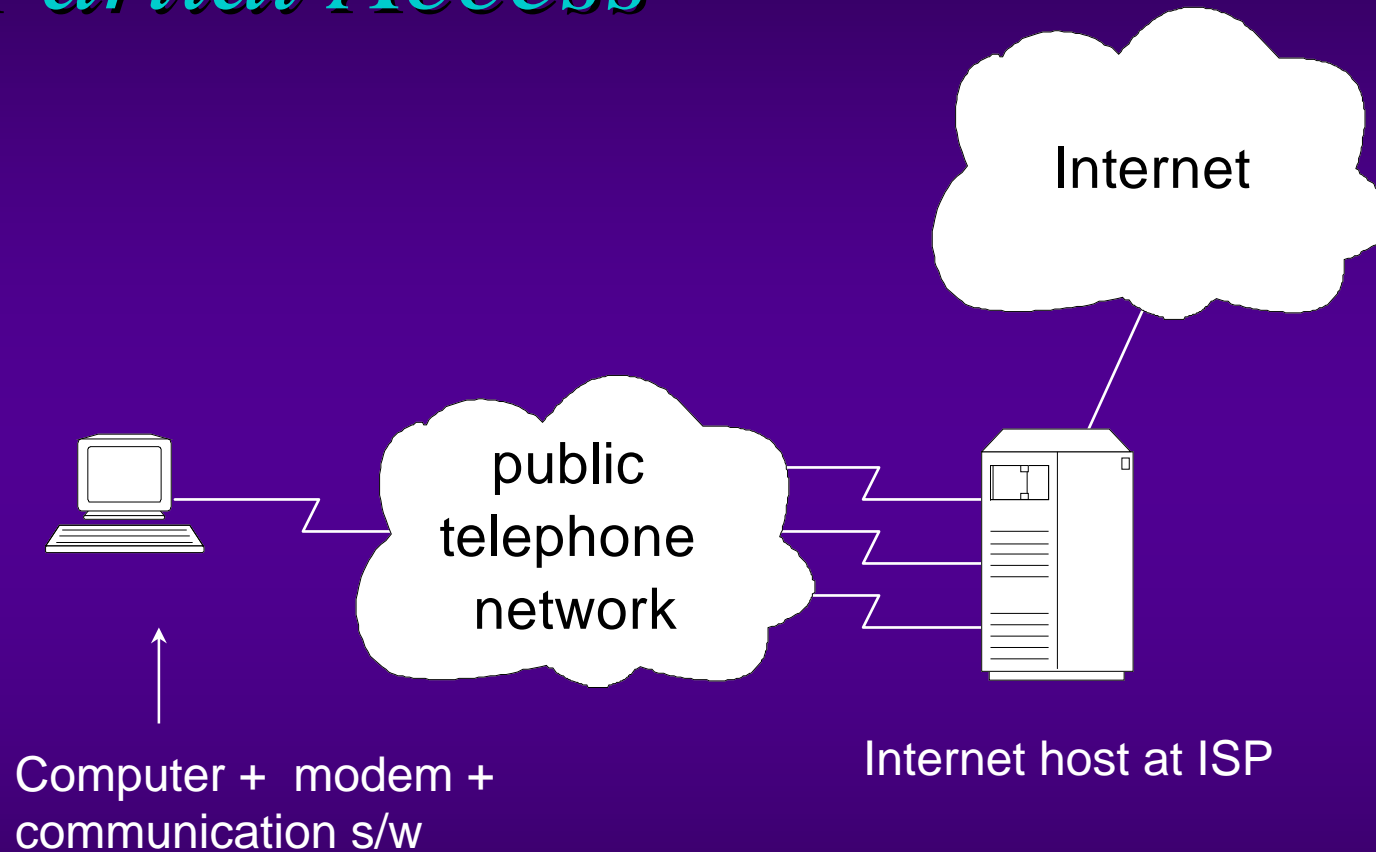


## *Partial vs. Full Access*

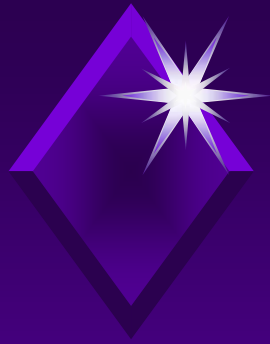
- ◆ Parital access
  - ◆ Dialup
- ◆ Full access
  - ◆ Temporary connection via dialup
  - ◆ Permanent leased line connection



# *Partial Access*

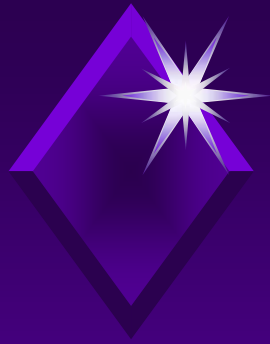


Your computer becomes a terminal remotely connected to the Internet host at your ISP



## *Partial Access*

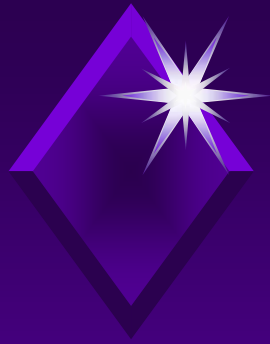
- ◆ Your computer
  - ◆ is not an Internet host
  - ◆ does not have an IP address
  - ◆ all of your files + mail are stored at the ISP
- ◆ HW / SW
  - ◆ simple PC or dumb terminal + Modem
  - ◆ any modem-interface communication prog.



## *Partial Access*

### ◆ Advantages

- ◆ your ISP gets and maintains Internet S/W
- ◆ telnet, ftp, email, gopher, ... are available
- ◆ minimal hardware and software requirements (does not require a fast Modem, 9600 bps is more than enough)
- ◆ Cheaper fee (400 baht/month)



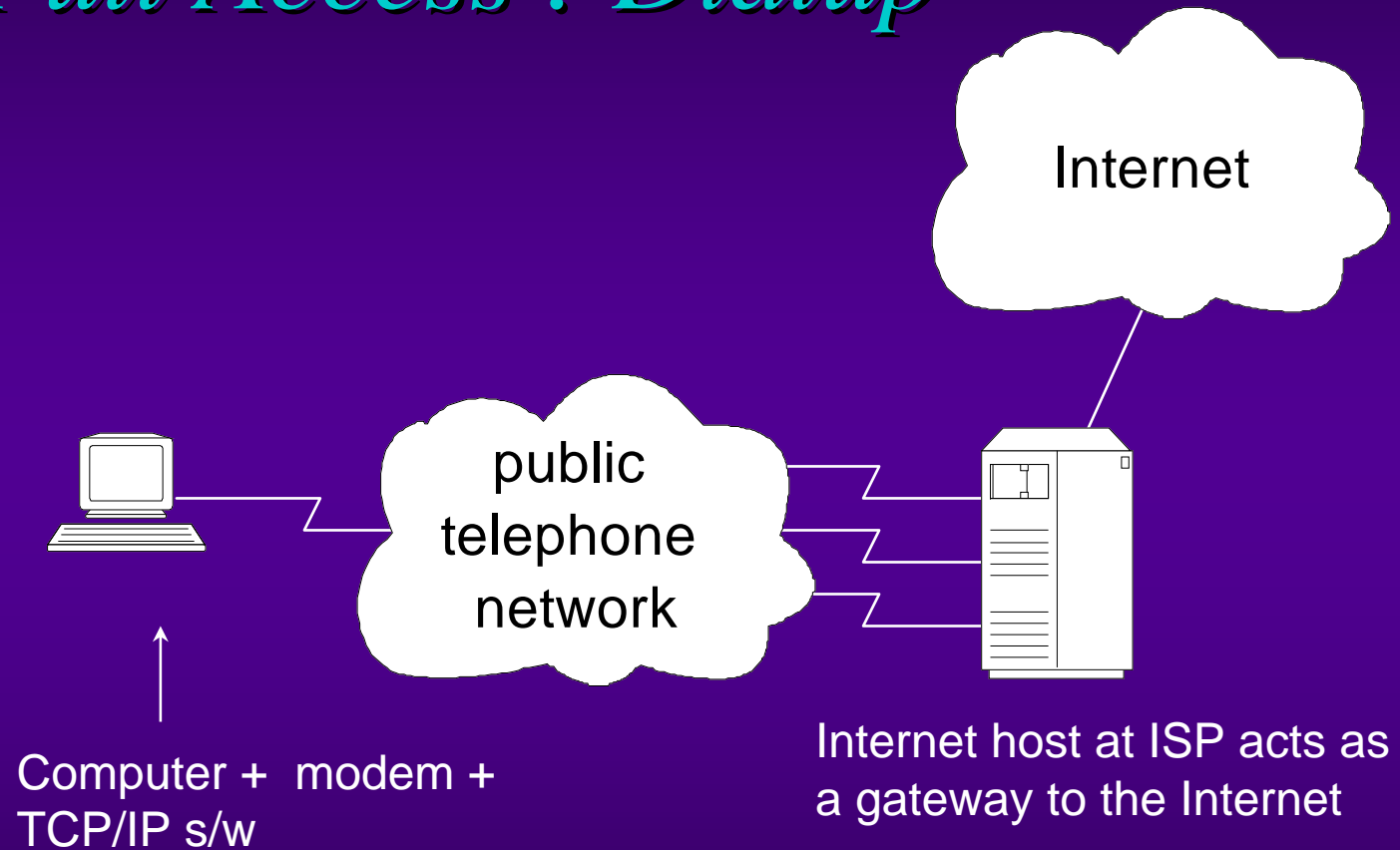
## *Indirect Access*

### ◆ Disadvantages

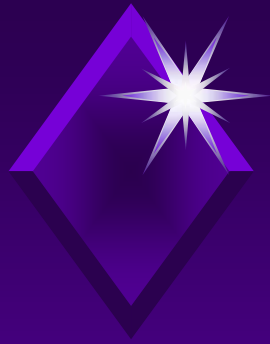
- ◆ One step removed from the Internet
  - ◆ e.g., ftp moves file to the ISP host not to your computer, (one more move is required.)
- ◆ Can't run Internet service on your computer
- ◆ Can't use most graphical Web browsers



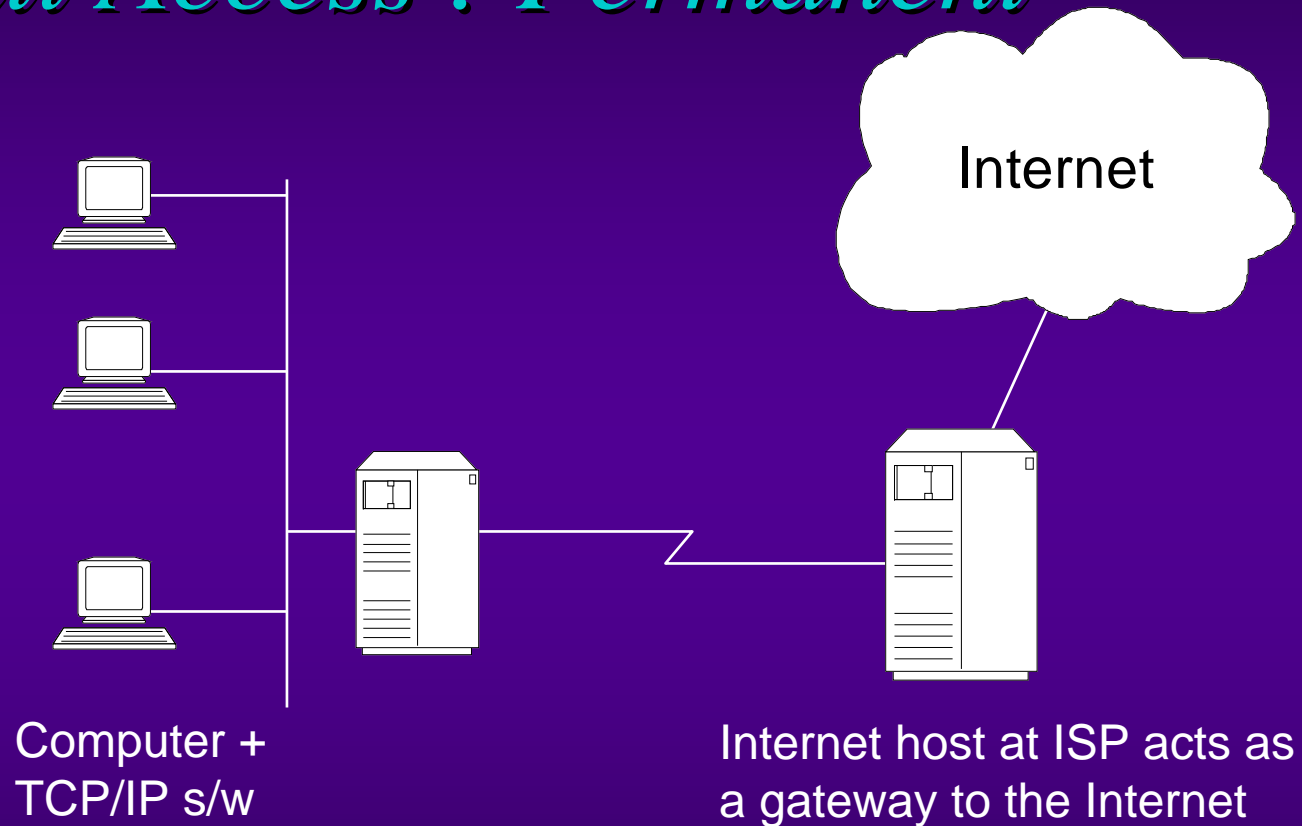
# *Full Access : Dialup*



Your computer temporarily becomes an Internet host



# *Full Access : Permanent*



Your computer permanently connects to the Internet

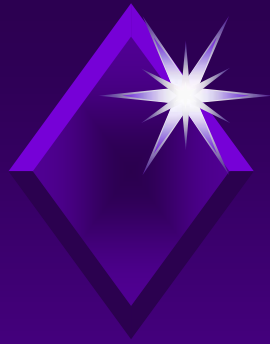




## *Full Access*

### ◆ Advantages

- ◆ Full use of client tools
- ◆ Can run Internet services (ftp, gopher,..)
- ◆ Full access to WWW with multimedia capacity



## *Full Access*

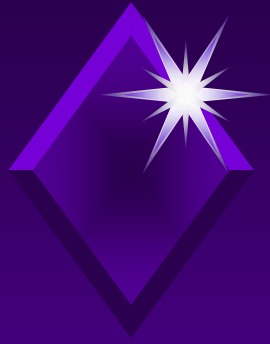
### ◆ Disadvantages

- ◆ Must get and maintain Internet on your machine
- ◆ Requires IP address
- ◆ Requires a more capable computer



## *Full Access*

- ◆ Dialup line
  - ◆ require a fast modem 14.4K bps is a minimum requirement.
  - ◆ 1,200 baht / month
- ◆ Lease line
  - ◆ must arrange access lines to the ISP
  - ◆ fee is in the order of tens of thousands to hundreds of thousands per month depending on the line speed.



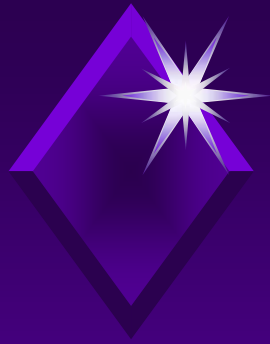
## *Full Access : Dialup*

### ◆ Hardware

- ◆ 486+ PC should be OK.
- ◆ at least 14.4 Kbps or 28.8 Kbps modem

### ◆ Software

- ◆ TCP/IP software
- ◆ SLIP / PPP s/w to allow TCP/IP to run over dialup line.
- ◆ Already included in Win95



## *Full Access : Permanent*

- ◆ Hardware

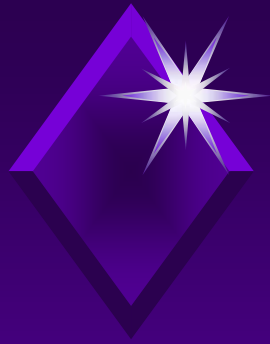
- ◆ Server-class, workstation, computers
- ◆ Sun, HP, IBM, ..., or high-end Pentium

- ◆ Software

- ◆ Mostly included with operating system
  - ◆ UNIX, Windows NT

- ◆ People

- ◆ Requires system admin staff.



## *ISP in Thailand*

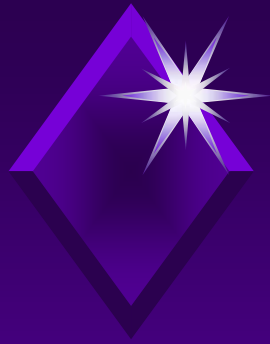
- ◆ A-Net
- ◆ Asia Access      [www.asiaaccess.net.th](http://www.asiaaccess.net.th)
- ◆ The Idea      [www.theidea.com](http://www.theidea.com)
- ◆ Info News      [www.infonews.co.th](http://www.infonews.co.th)
- ◆ Internet Thailand      [www.inet.co.th](http://www.inet.co.th)
- ◆ KSC      [www.ksc.net.th](http://www.ksc.net.th)
- ◆ Loxley      [www.loxinfo.co.th](http://www.loxinfo.co.th)
- ◆ Samart Infonet      [www.samart.co.th](http://www.samart.co.th)



## *Internet Thailand : Pricing*

Service Name	Hours	Disk Space	In/Out Msg.	Startup	Monthly
HomeNet	15	0.6MB	400/400	800	400
WorldNet	20	1.0MB	600/600	1,200	600
BizNet	40	2.0MB	800/800	1,600	800
WorldNet+	20	1.0MB	600/600	2,400	1,200
BizNet+	40	2.0MB	800/800	3,000	1,500

Individual Users



## *Internet Thailand : Pricing*

Service Name	In/Out Data Vol. (MB)	Startup	Monthly
9.6k	200 / 200	30,000	15,000
14.4k	300 / 300	40,000	20,000
19.2k	500 / 500	50,000	25,000
28.8k	1000/1000	100,000	50,000
64k	2000/2000	200,000	100,000
128k	4000/4000	350,000	175,000
256k	8000/8000	500,000	250,000
512k	16000/16000	1,400,000	700,000

Corporate Connection





# Info News

Netscape - [INFO NEWS]

File Edit View Go Bookmarks Options Directory Window Help

**INFO  
NEWS**

WELCOME TO CYBERSPACE

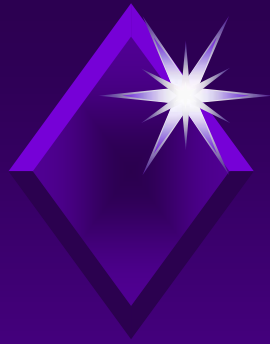
 **DATA BASE**

 **INTERNET**

Please send Comments and Suggestions via e-mail : [INFONEWS](#)  
Information about Subscription Contacts : [SALES](#)  
Technical problems, reports to : [SYSTEM ADMINISTRATION](#)

Monterey Tower, 11 th Floor, 2170 New Petchaburi Rd., Bangkok, Huaykwang, Bangkok 10320  
Tel : (662) 308-0500 Fax : (662) 308-0789

Document: Done



# LoxInfo

Netscape - [Loxley Information Services Company Limited]

File Edit View Go Bookmarks Options Directory Window Help

**LOXINFO SERVICES** **CONTACT US** **OUR SERVICES** **TRAINING** **JOBS** **WHAT'S NEW** **COMMENT** **INTERESTING WEB SITES** **SITES IN THAILAND** **SEARCH ENGINES** **LINK CHECK**

**GOPHER** **FTP** **MAILALERT** **NETACCESS** **APPLICATION FORM**

Loxley Information Services Co., Ltd. Tel. 679-7890 Fax. 679-7889


About Us Our Services Internet User Training

Welcome to the LoxInfo Homepage!



# Internet Thailand

The screenshot shows a Netscape browser window titled "Netscape - [Internet Thailand (INET-TH) Home Page]". The menu bar includes "File", "Edit", "View", "Go", "Bookmarks", "Options", "Directory", "Window", and "Help". The main content area features the "INTERNET THAILAND SERVICE CENTER" logo at the top, which consists of a globe and a stylized leaf. Below the logo is a decorative horizontal line of yellow dots, followed by the Thai text "ยินดีต้อนรับ" (Welcome). A text box below that reads "Internet Thailand Service Center. Your one stop".

On the left side, there is a vertical navigation menu with the following items: "THAILAND" (with a globe icon), "ABOUT US", "OUR SERVICES", "OUR CLIENTS", "WWW GUIDE", "OF INTEREST", "SUPPORT", "SEARCH", "NEWSFLASH", and "Cyber Mall".

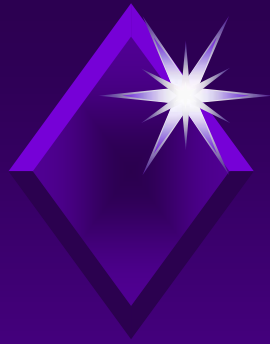
Below the navigation menu, there is a box containing a small image of the Royal Golden Jubilee 1996 logo and the text: "[Royal Golden Jubilee 1996 Home Page.](#) Celebration of His Majesty King Bhumibol Adulyadej 50-year reign as the King of Thailand."

At the bottom of the page, a paragraph reads: "A warm welcome from Internet Thailand Service Center (INET-TH), [Thailand's premier Internet Service Provider.](#) We hope you enjoy surfing our web site. We

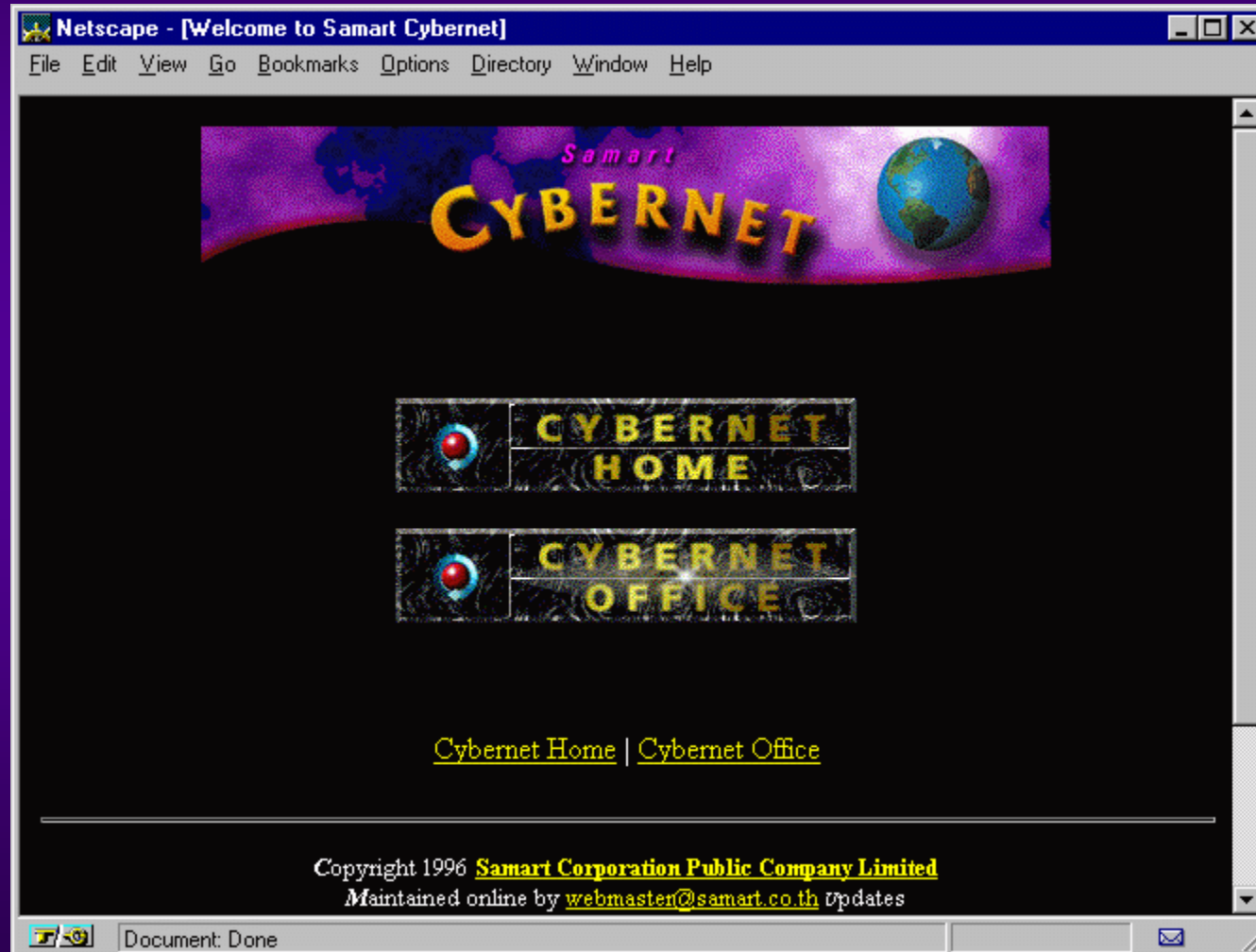
The browser's status bar at the bottom shows "Document: Done" and a mail icon.

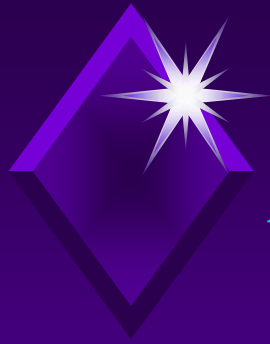






*Samart*





# Asia Access

Netscape - [Asia Access]

File Edit View Go Bookmarks Options Directory Window Help



**ASIA ACCESS**  
INTERNET SERVICE



**FREE** Microsoft Internet Explorer

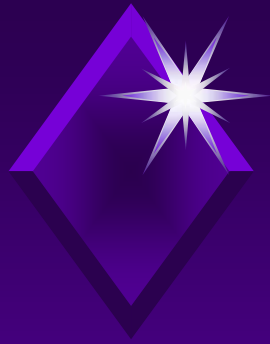
**This site best view  
with Internet Explorer 3 Beta 2**

[Mail To : contact.asiaaccess.net.th](mailto:contact.asiaaccess.net.th)



**Asia Access Internet Service.....We make cyberspace simple...**

94% of 6K (at 11 bytes/sec)



# The Idea

Netscape - [theidea.com]

File Edit View Go Bookmarks Options Directory Window Help

**theidea.com**  
<http://www.theidea.com>

**What's new**

- [Regit](#)
- [Poly Plus Entertainment](#)
- [The Idea Group](#)
- [Resume](#)
- [Ploy Magazine](#)
- [ICHAT](#)

**Shopping Mall**

**Cool Sites**

**Event & Fair**

**Business**

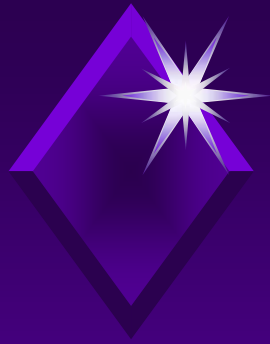
**Tools**

**Entertainment**

**Personal Home Page**

**Somluck Kamsing**

Document: Done



## *Setting up Server on the Net*

- ◆ Permanent Internet Host
  - ◆ Hardware+Software+Connection+People
- ◆ “Rent-a-Server” Services
  - ◆ Internet Thailand : INET-Web
  - ◆ etc...
- ◆ Web Page Design Services





## *INET-Web*

### ◆ Start up

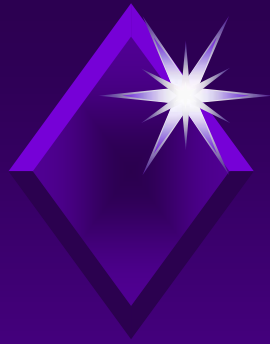
- ◆ WWW Server & software installation  
(150,000 + 60,000 refundable deposit)
- ◆ Domain name registration
- ◆ BizNet+ 3 accounts

### ◆ Monthly

- ◆ Server maintenance (45,000)

### ◆ Optional

- ◆ weekly backup, disk space, consulting,...



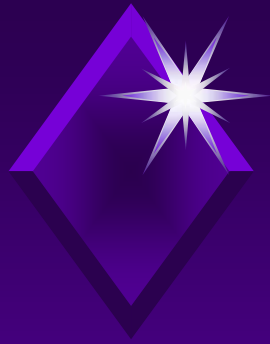
## *INET-Web*

- ◆ Server is hosted at the ISP
  - ◆ UNIX based workstation, 16MB, 200MB HD
  - ◆ NCSA HTTPD WWW Server
- ◆ Minimal delay time and investment



*<http://www.hway.net>*

- ◆ \$24.95 / month
  - ◆ Domain name
  - ◆ Unlimited updated via ftp
  - ◆ 500MB of data transfer / month  
(\$0.12 / MB over 500MB)
  - ◆ 10MB for HTML doc (\$1 / MB over 10MB)
  - ◆ Custom CGI
  - ◆ ...



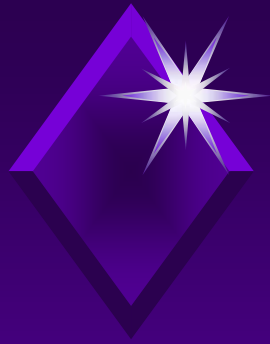
<http://www.navisoft.com>

	Basic	Domain	Commercial	Dedicated
Start up	\$99	\$199	\$199	\$999
Monthly	\$15	\$99	\$199	\$1999
Space	20MB	50MB	100MB	1GB
Hits/day	1,000	5,000	10,000	50,000



## *INET : Web Page Design*

Text	1,000	per page
Text & Graphic	4,000	graphics supplied
Original Graphic Design	case by case	per image or package deal
Forms	4,000 800	up to 4 hrs development per additional hour
Table	2,000 400	up to 4 hrs development per additional hour

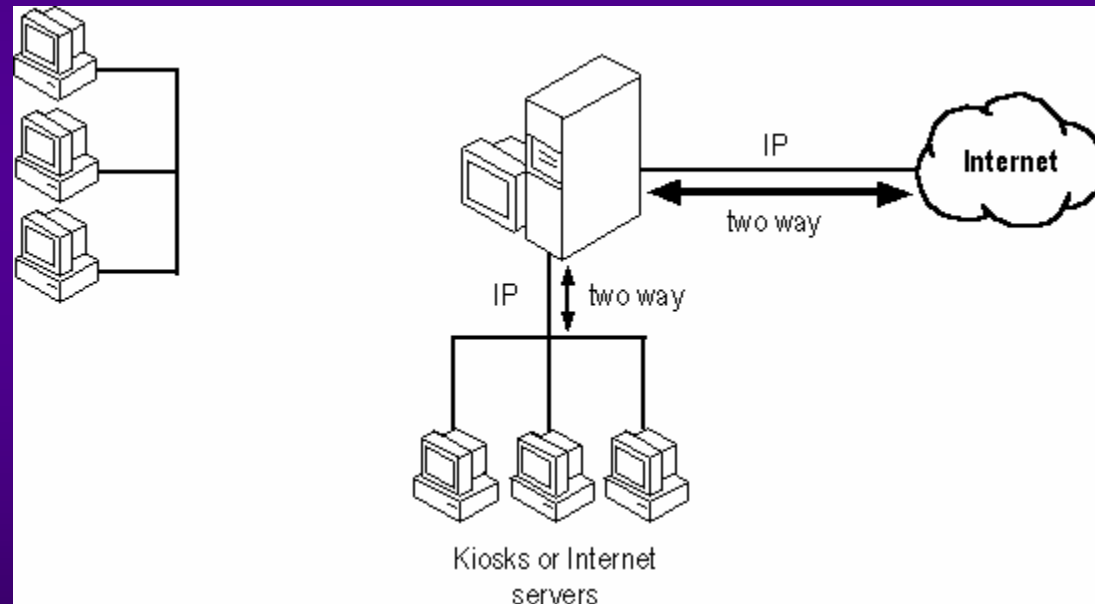


## *Information Server on the Net*

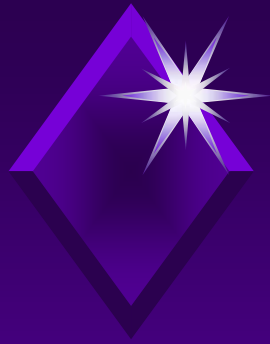
- ◆ UNIX based machine
    - ◆ approx. 400,000+
  - ◆ Server software
    - ◆ Netscape Enterprise : 100,000
      - ◆ web, ftp, main, news, catalog, proxy servers
  - ◆ Leased line
    - ◆ 64K approx. 50,000+ / month
  - ◆ ISP Fee
    - ◆ 64K : 100,000 / month
- Technical Staff ???



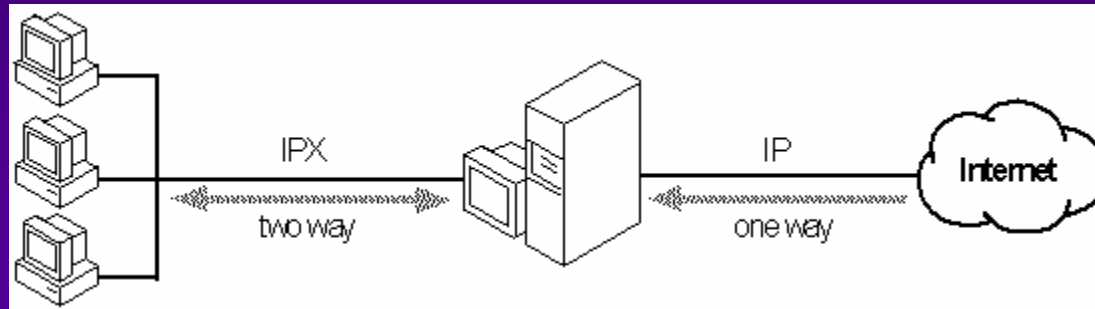
# *Security Levels*



Physical Isolation



# Security Levels



Protocol Isolation

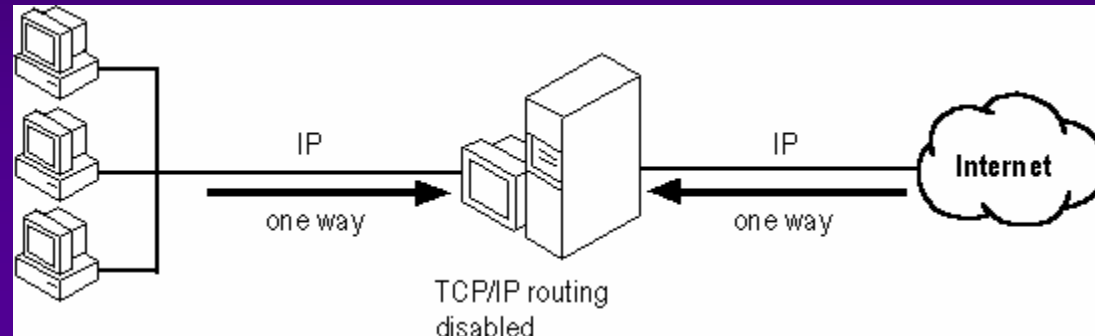


Third-Party Router

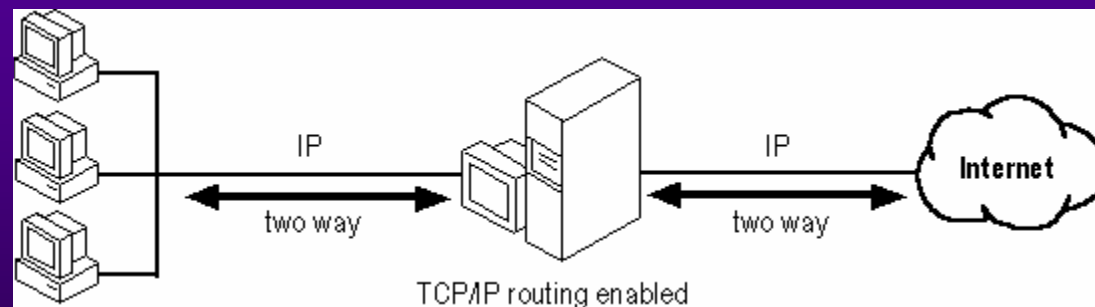




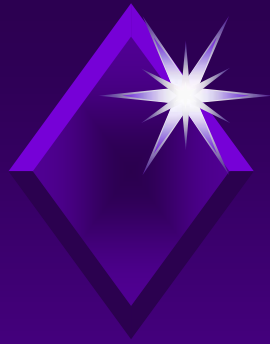
# Security Levels



TCP/IP routing disabled



Full Internet Gateway



## *Summary*

- ◆ Internet : a new highway to access and distribute information
- ◆ Internet growth is dramatic
- ◆ Advice
  - ◆ browse and experience now
  - ◆ look for competitive advantage
  - ◆ look for new business opportunities
  - ◆ don't wait for all the roads to be paved