



Internet: Tarihçe ve Kavramlar

Umut Al

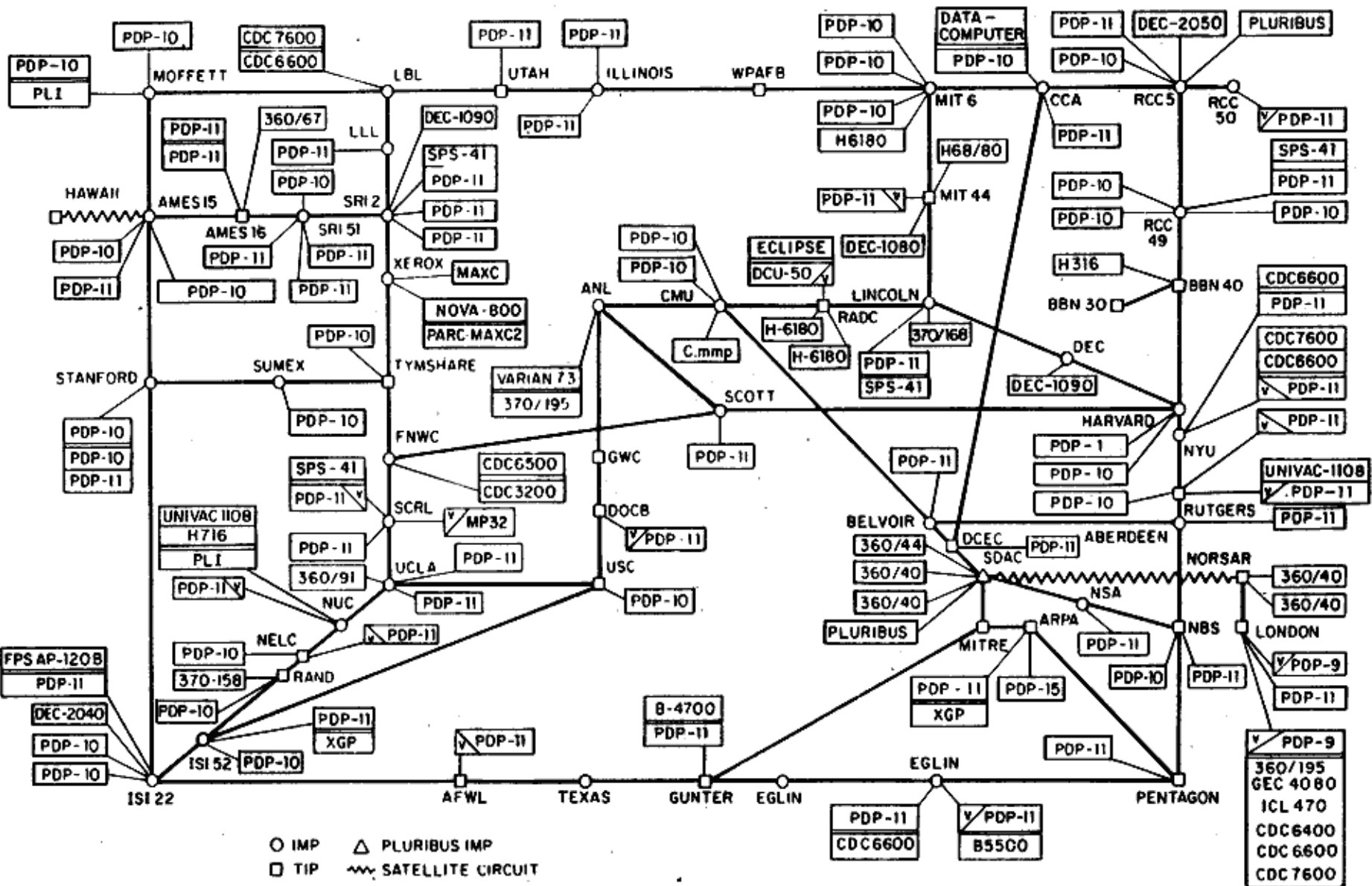
umutal@hacettepe.edu.tr



Internet'in Tarihçesi

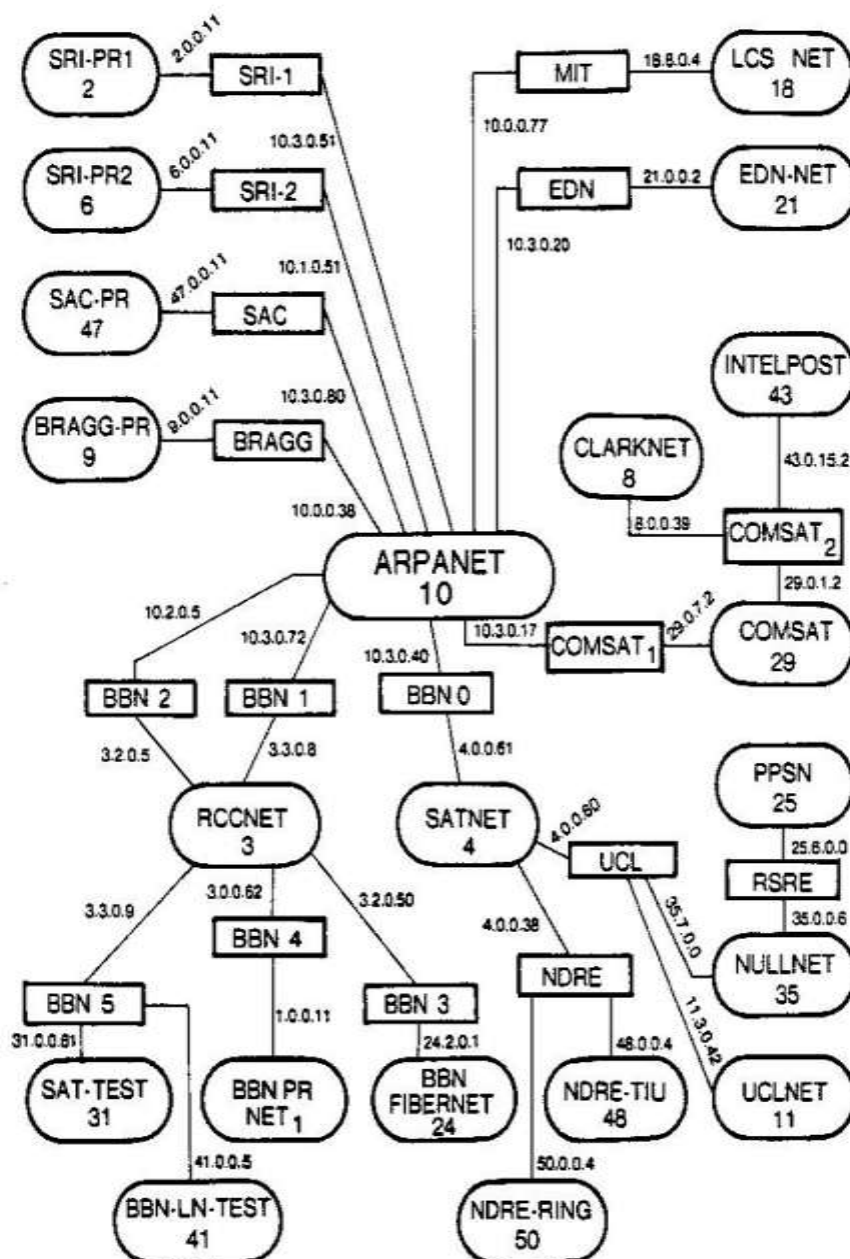
- ❖ 1945 – Vannevar Bush “memex”
- ❖ 1962 – Licklider (MIT) “Galaktik Ağ”
- ❖ 1969 – DARPA – ARPANET
- ❖ 1972 – İlk e-posta
- ❖ 1983 – TCP-IP
- ❖ 1991 – Gopher, WAIS
- ❖ Nisan 1993 – Türkiye’de Internet

ARPANET LOGICAL MAP, MARCH 1977



(PLEASE NOTE THAT WHILE THIS MAP SHOWS THE HOST POPULATION OF THE NETWORK ACCORDING TO THE BEST INFORMATION OBTAINABLE, NO CLAIM CAN BE MADE FOR ITS ACCURACY)

NAMES SHOWN ARE IMP NAMES, NOT (NECESSARILY) HOST NAMES



THE GOPHER PROJECT

Welcome to GOPHER! Gopher is a slim, powerful, and fast way to present information in a hierarchical catalog online. Gopher actually predates the Web -- although most web browsers make excellent gopher browsers too.

Good places to start are the "Why Gopher?" and "Using Gopher" areas!

- > [12] *** GOPHER TURNS 10 / GOPHER 3.0 (FurryTerror) RELEASED ***
- [13] *** GOPHER TURNS 10 ..R 3.0 (FurryTerror) RELEASED *** [html] <HTML>
- [14] A Brief Introduction to Gopherspace
- [15] Clients, Servers, and Downloads/
- [16] Home Gopher at UMN (a good place to browse)/
- [17] Home Gopher at UMN [alternate]/
- [18] Mailing List
- [19] Mailing List Archives/
- [20] Major Gopher Servers/
- [21] Screenshots/



TCP/IP Modeli

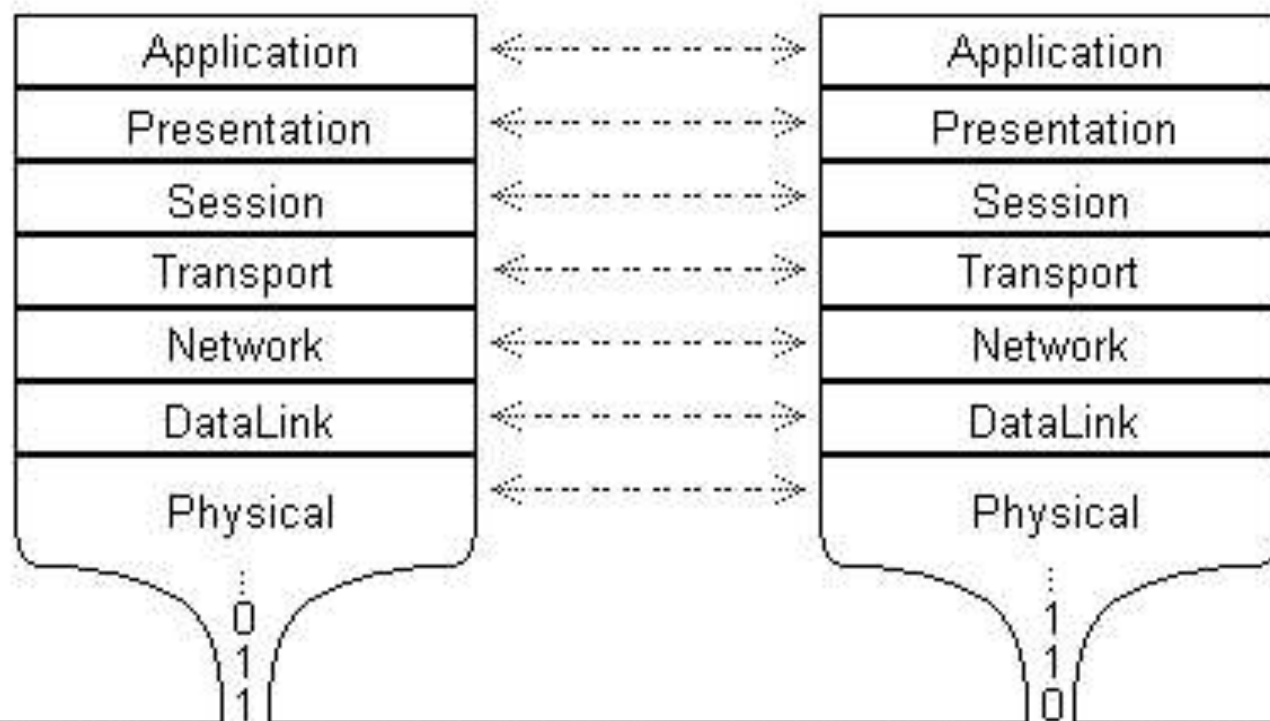
- ❖ TCP/IP: Transmission Control Protocol/Internet Protocol
- ❖ Internet'te veri transferi
- ❖ Internet hizmetleri
- ❖ OSI (Open Systems Interconnection) Referans Modeli



OSI Referans Modeli

- ❖ Farklı şirketler tarafından üretilen bilgisayarların birbiriyle iletişim kurmasını sağlayan iletişim standardı
- ❖ 1981
- ❖ ISO
- ❖ 7 katman (application, presentation, session, transport, network, data link, physical)

OSI Model



.....0000100001011110001010100001111010111010100000111011110001110100....



TCP/IP Modeli - Katmanlar

- ❖ Dört katmandan oluşmakta
 1. Bağlantı katmanı (network layer)
 2. İnternet katmanı (Internet layer)
 3. İletim katmanı (transport layer)
 4. Uygulama katmanı (application layer)



OSI - TCP/IP

OSI layer	TCP/IP Layer	Function
Application (7)	Application (4)	application and processes that use the network
Presentation (6)		
Session (5)		
Transport (4)	Transport (3)	provides end-to-end data delivery service
Network (3)	Internet (2)	defines the datagram handles routing of data
Data Link (2)	Network host (1)	routines for accessing physical networks
Physical (1)		



Bazı Terimler

Web sitesi

Web sayfası

Web dokümanı

Tarayıcı (Browser)

Sunucu (Server)

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Research Areas: Information seeking behaviours and information retrieval on the Internet, marketing of library services, networked information services, university libraries, bibliometrics

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Last updated: 10.10.2012

Courses

Articles

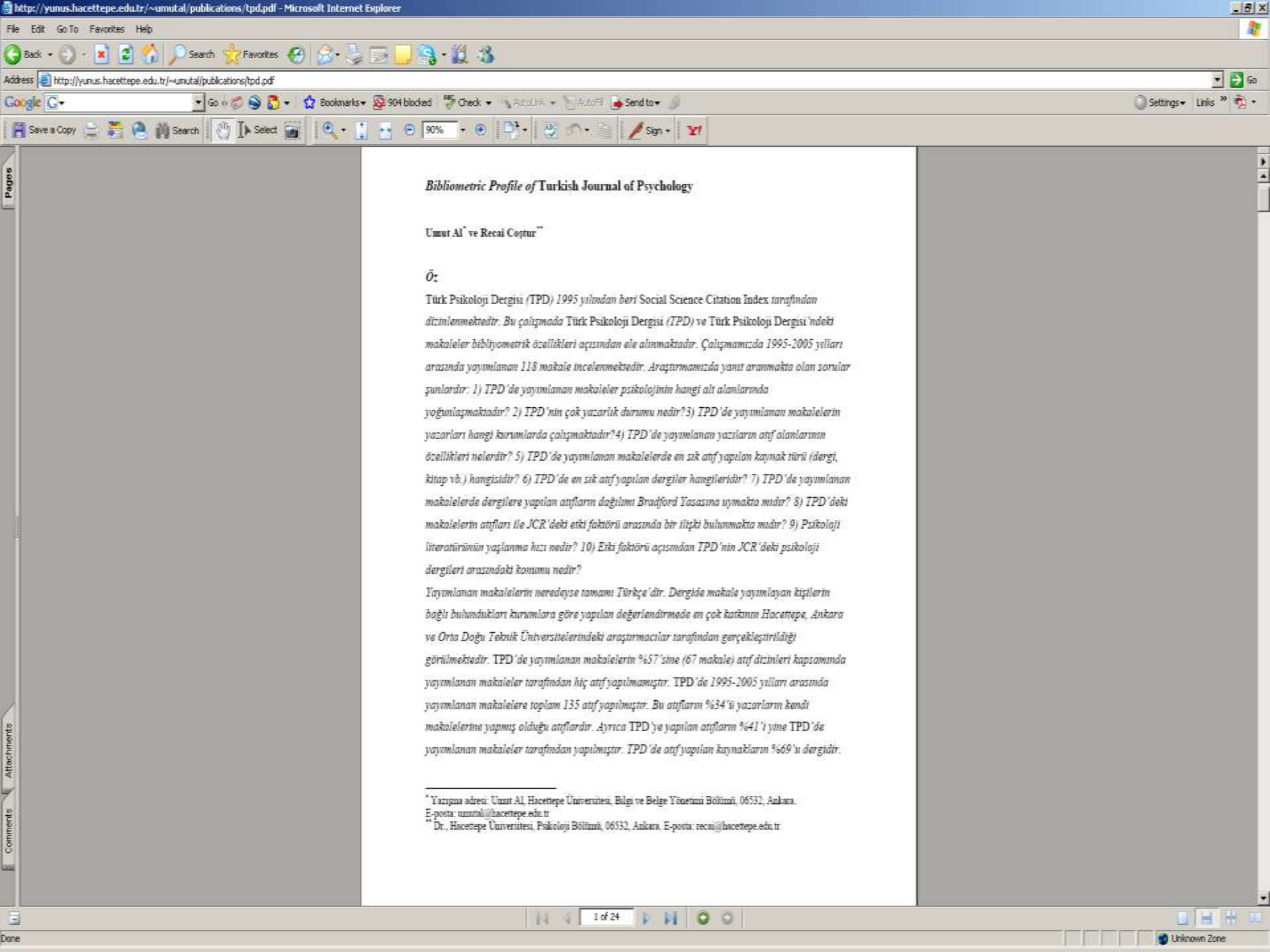
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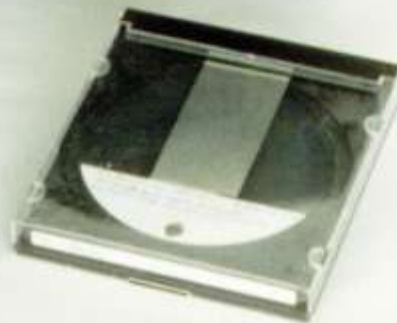
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Internet - Büyüklük

❖ Kullanıcı sayısı

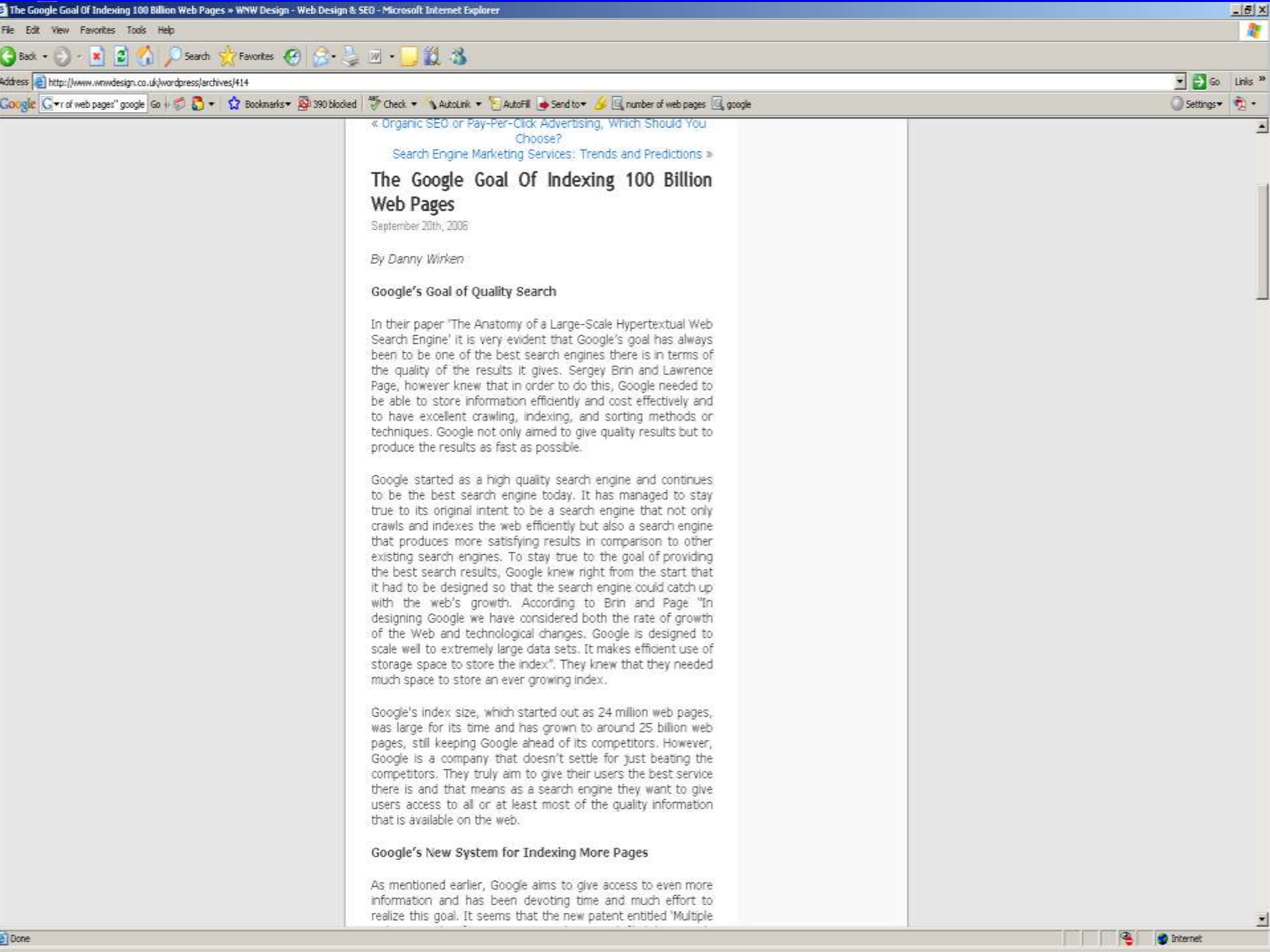
- ❖ 665 milyon (International Telecommunications Union, 2002)
- ❖ 888 milyon (Internet World Stats, 2005)
- ❖ 1.1 milyardan fazla (Internet World Stats, 2007)
- ❖ 2.2 milyardan fazla (Internet World Stats, 2011)

❖ Ev sahipliği yapan bilgisayar sayısı

- ❖ 489.774.269 (Internet Systems Consortium, 2007)

❖ Adreslenebilir Web sayfası sayısı

- ❖ 8 milyardan fazla (Google-2005)



« Organic SEO or Pay-Per-Click Advertising, Which Should You Choose?

[Search Engine Marketing Services: Trends and Predictions »](#)

The Google Goal Of Indexing 100 Billion Web Pages

September 20th, 2006

By Danny Wirken

Google's Goal of Quality Search

In their paper 'The Anatomy of a Large-Scale Hypertextual Web Search Engine' it is very evident that Google's goal has always been to be one of the best search engines there is in terms of the quality of the results it gives. Sergey Brin and Lawrence Page, however knew that in order to do this, Google needed to be able to store information efficiently and cost effectively and to have excellent crawling, indexing, and sorting methods or techniques. Google not only aimed to give quality results but to produce the results as fast as possible.

Google started as a high quality search engine and continues to be the best search engine today. It has managed to stay true to its original intent to be a search engine that not only crawls and indexes the web efficiently but also a search engine that produces more satisfying results in comparison to other existing search engines. To stay true to the goal of providing the best search results, Google knew right from the start that it had to be designed so that the search engine could catch up with the web's growth. According to Brin and Page "In designing Google we have considered both the rate of growth of the Web and technological changes. Google is designed to scale well to extremely large data sets. It makes efficient use of storage space to store the index". They knew that they needed much space to store an ever growing index.

Google's index size, which started out as 24 million web pages, was large for its time and has grown to around 25 billion web pages, still keeping Google ahead of its competitors. However, Google is a company that doesn't settle for just beating the competitors. They truly aim to give their users the best service there is and that means as a search engine they want to give users access to all or at least most of the quality information that is available on the web.

Google's New System for Indexing More Pages

As mentioned earlier, Google aims to give access to even more information and has been devoting time and much effort to realize this goal. It seems that the new patent entitled 'Multiple

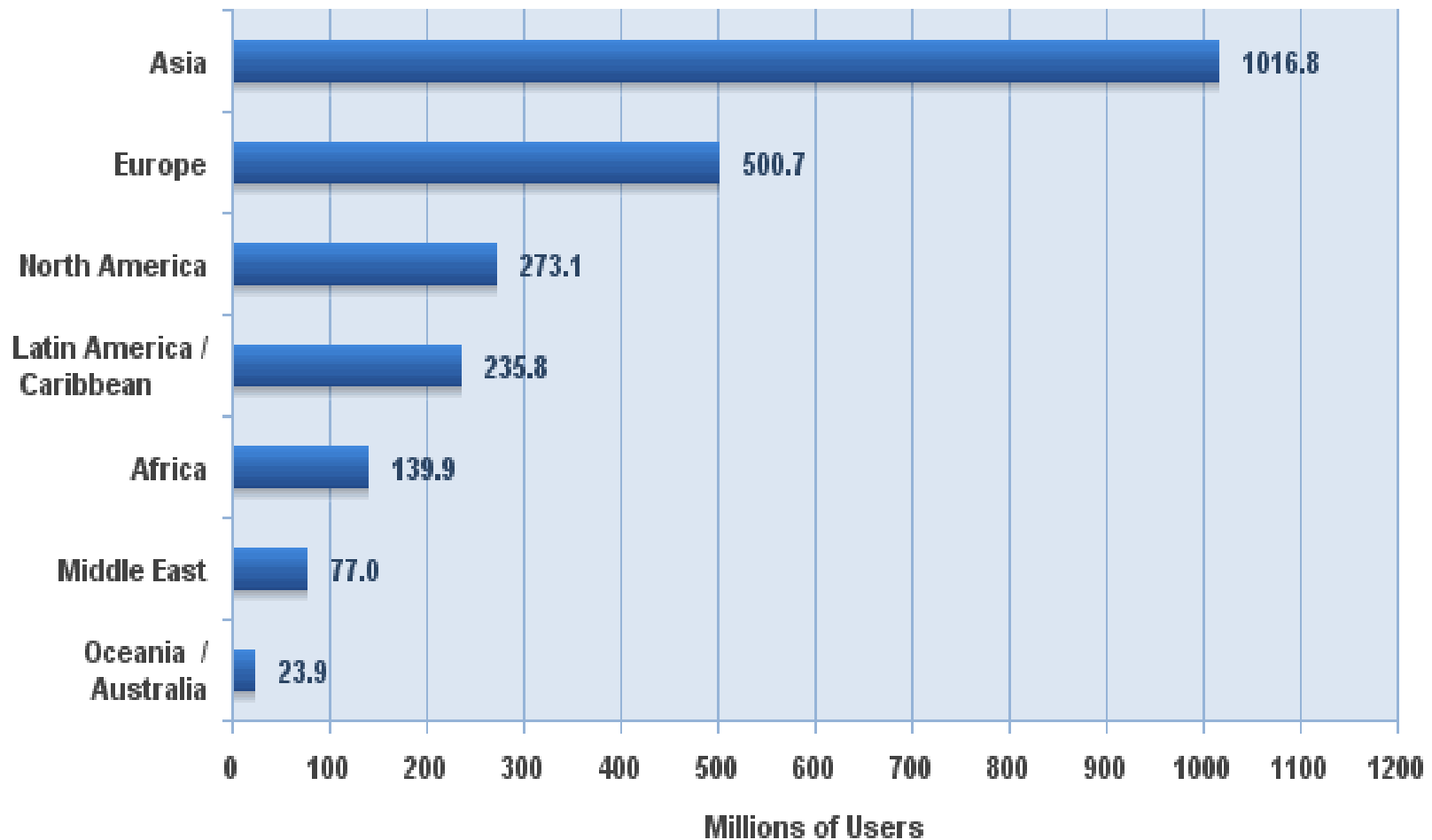
World Internet Users and Population Stats

WORLD INTERNET USAGE AND POPULATION STATISTICS December 31, 2011

World Regions	Population (2011 Est.)	Internet Users Dec. 31, 2000	Internet Users Latest Data	Penetration (% Population)	Growth 2000-2011	Users % of Table
Africa	1,037,524,058	4,514,400	139,875,242	13.5 %	2,988.4 %	6.2 %
Asia	3,879,740,877	114,304,000	1,016,799,076	26.2 %	789.6 %	44.8 %
Europe	816,426,346	105,096,093	500,723,686	61.3 %	376.4 %	22.1 %
Middle East	216,258,843	3,284,800	77,020,995	35.6 %	2,244.8 %	3.4 %
North America	347,394,870	108,096,800	273,067,546	78.6 %	152.6 %	12.0 %
Latin America / Carib.	597,283,165	18,068,919	235,819,740	39.5 %	1,205.1 %	10.4 %
Oceania / Australia	35,426,995	7,620,480	23,927,457	67.5 %	214.0 %	1.1 %
WORLD TOTAL	6,930,055,154	360,985,492	2,267,233,742	32.7 %	528.1 %	100.0 %

NOTES: (1) Internet Usage and World Population Statistics are for December 31, 2011. (2) CLICK on each world region name for detailed regional usage information. (3) Demographic (Population) numbers are based on data from the [US Census Bureau](#) and local census agencies. (4) Internet usage information comes from data published by [Nielsen Online](#), by the [International Telecommunications Union](#), by [GfK](#), local Regulators and other reliable sources. (5) For definitions, disclaimers, and navigation help, please refer to the [Site Surfing Guide](#). (6) Information in this site may be cited, giving the due credit to [www.internetworldstats.com](#). Copyright © 2001 - 2012, Miniwatts Marketing Group. All rights reserved worldwide.

Internet Users in the World by Geographic Regions - 2011

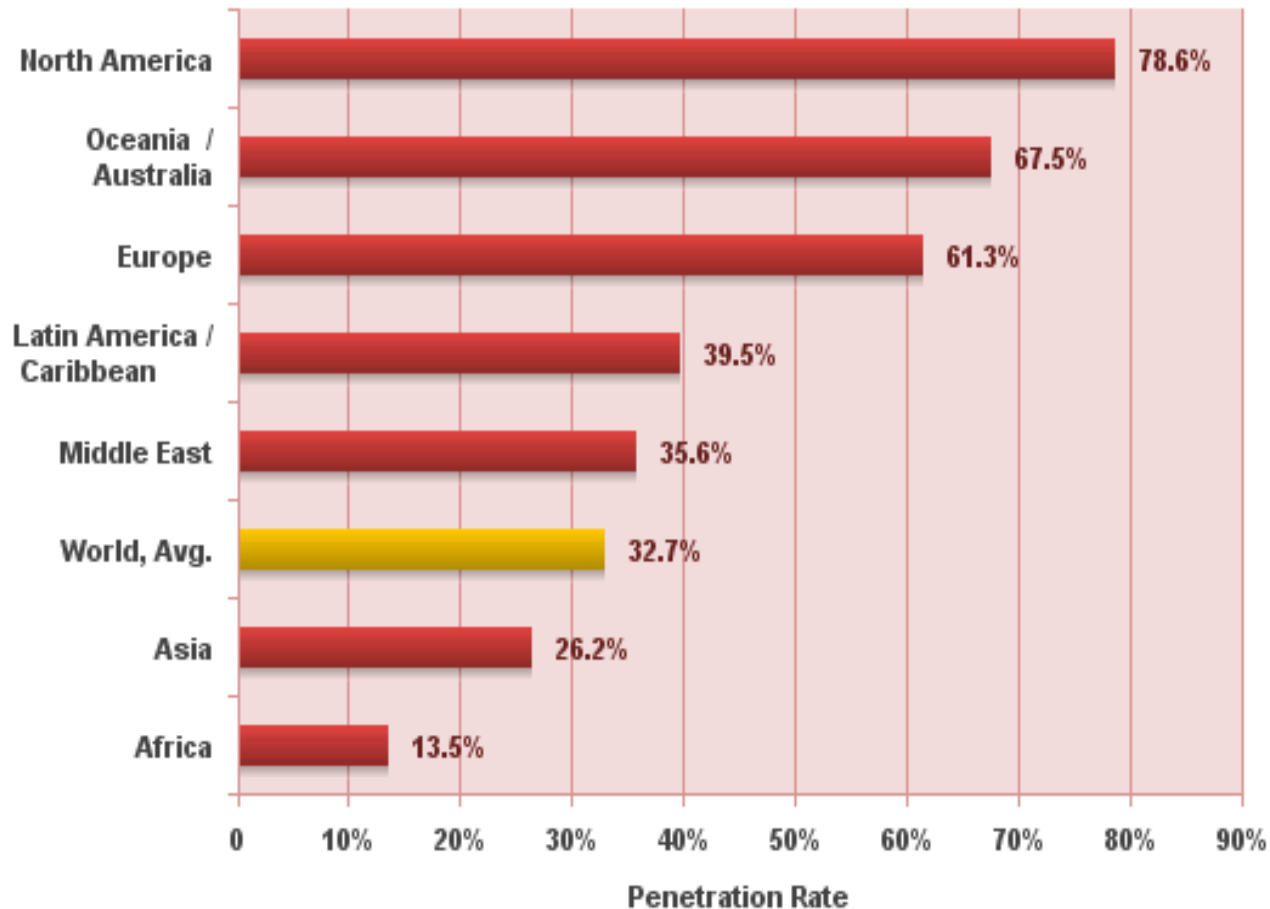


Source: Internet World Stats - www.internetworldstats.com/stats.htm

Estimated Internet users are 2,267,233,742 on December 31, 2011

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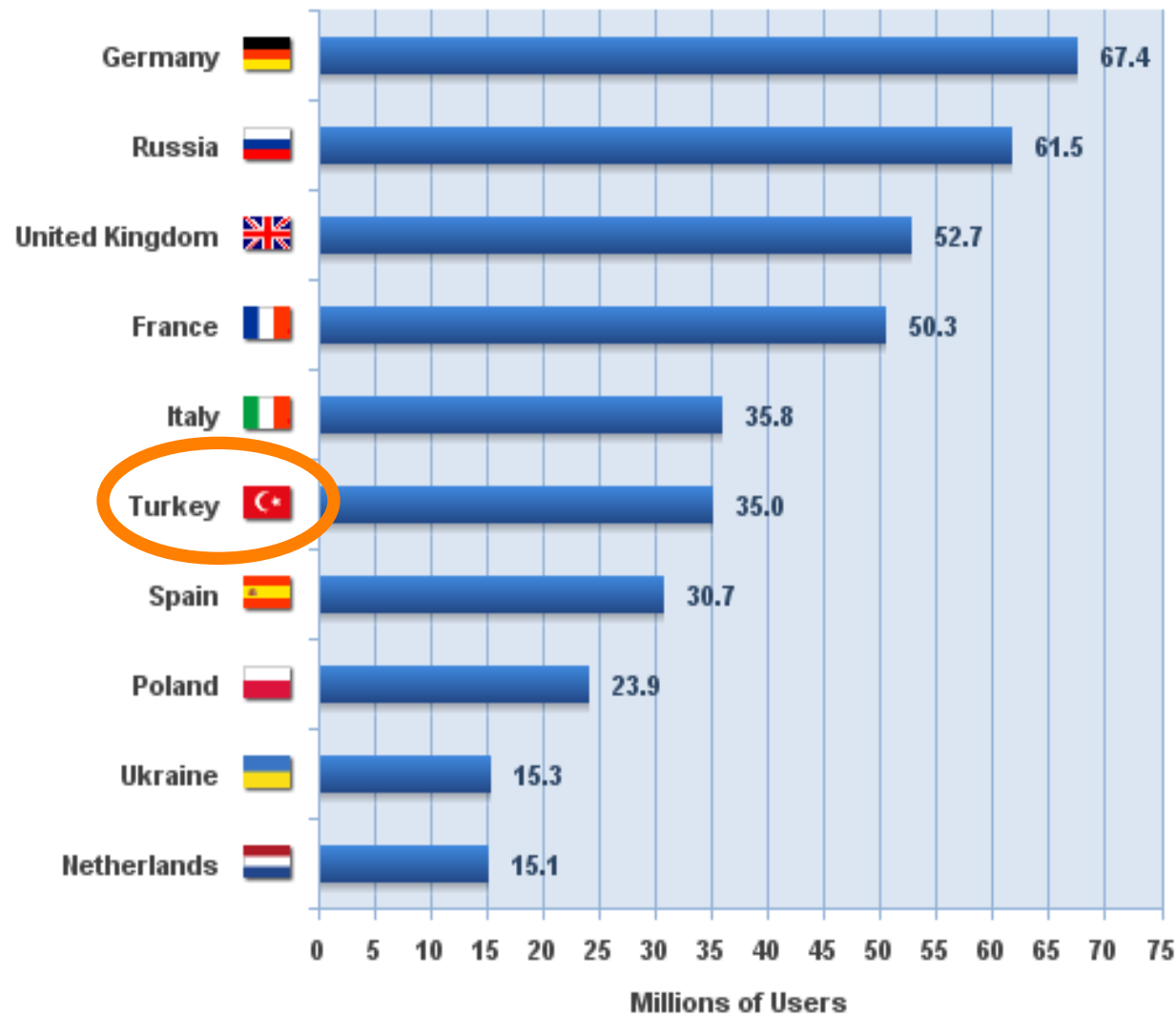
World Internet Penetration Rates by Geographic Regions - 2011



Source: Internet World Stats - www.internetworldstats.com/stats.htm
Penetration Rates are based on a world population of 6,930,055,154
and 2,267,233,742 estimated Internet users on December 31, 2011.
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Top 10 Internet Countries in Europe

December 31, 2011



Source: Internet World Stats - www.internetworldstats.com/stats4.htm

Basis: 500,723,686 estimated Internet Users in Europe on 2010Q4

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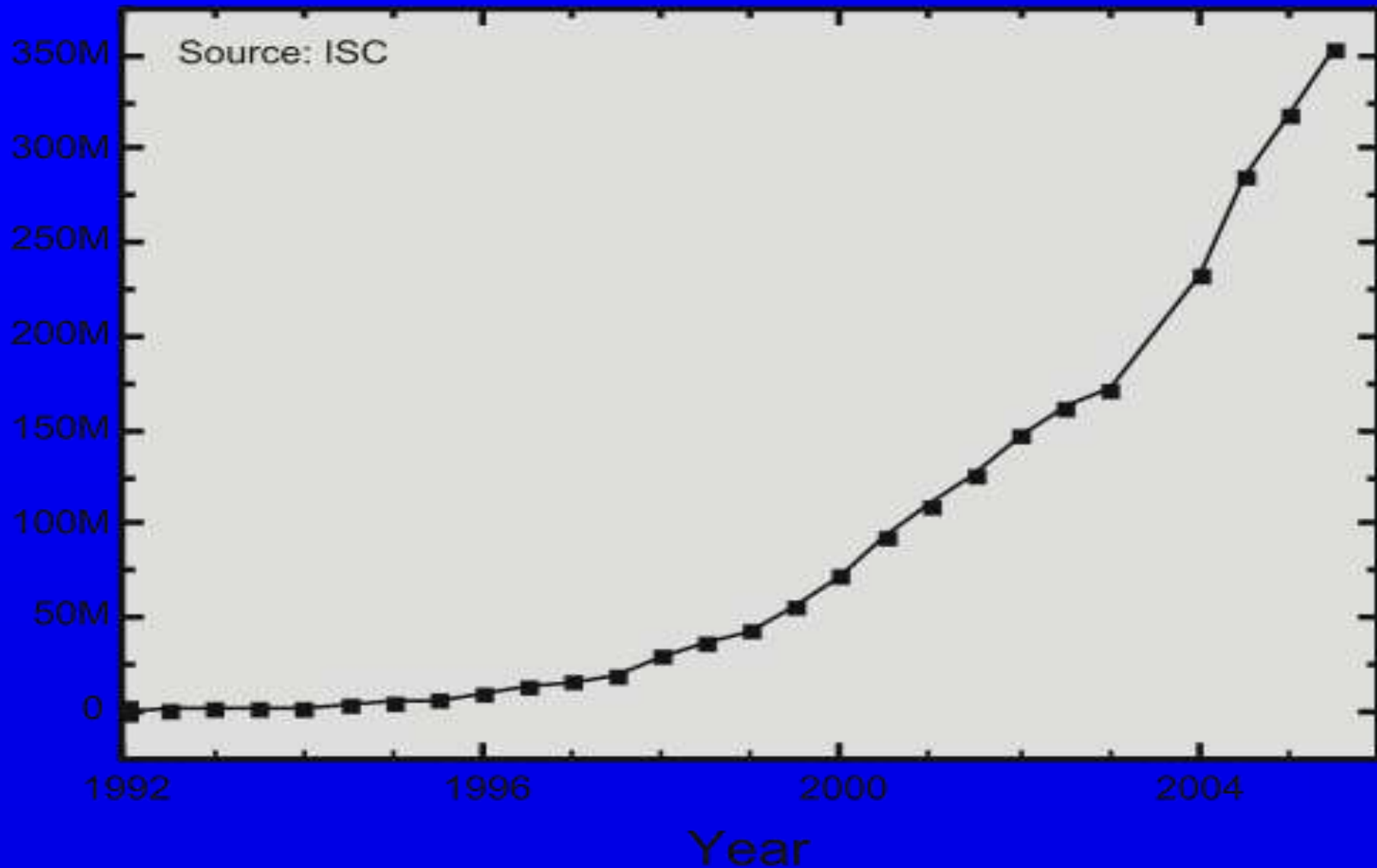
Internet and Facebook Usage in Europe

<u>EUROPE</u>	Population (2011 Est.)	Internet Users, 31-Dec-11	Penetration (% Population)	Users % in Europe	Facebook 31-Mar-12
Albania	2,994,667	1,441,928	48.1 %	0.3 %	1,060,760
Andorra	84,825	68,740	81.0 %	0.0 %	36,760
Austria	8,217,280	6,143,600	74.8 %	1.3 %	2,766,540
Belarus	9,577,552	4,436,800	46.3 %	0.9 %	409,120
Belgium	10,431,477	8,489,901	81.4 %	1.7 %	4,634,220
Bosnia-Herzegovina	4,622,163	1,955,277	42.3 %	0.4 %	1,268,560
Bulgaria	7,093,635	3,464,287	48.8 %	0.7 %	2,386,800
Croatia	4,483,804	2,656,089	59.2 %	0.5 %	1,452,300
Cyprus	1,120,489	584,863	52.2 %	0.1 %	553,860
Czech Republic	10,190,213	7,220,732	70.9 %	1.4 %	3,502,420
Denmark	5,529,888	4,923,824	89.0 %	1.0 %	2,835,120
Estonia	1,282,963	993,785	77.5 %	0.2 %	447,620
Faroe Islands	49,267	37,500	76.1 %	0.0 %	29,880
Finland	5,259,250	4,661,265	88.6 %	0.9 %	2,078,880
France	65,102,719	50,290,226	77.2 %	10.0 %	23,544,460
Germany	81,471,834	67,364,898	82.7 %	13.5 %	22,123,660
Gibraltar	28,956	20,200	69.8 %	0.0 %	18,800
Greece	10,760,136	5,043,550	46.9 %	1.0 %	3,562,120

Montenegro	661,807	328,375	49.6 %	0.1 %	292,700
Netherlands	16,847,007	15,071,191	89.5 %	3.0 %	5,759,840
Norway	4,691,849	4,560,572	97.2 %	0.9 %	2,561,820
Poland	38,441,588	23,852,486	62.0 %	4.8 %	7,524,220
Portugal	10,760,305	5,455,217	50.7 %	1.1 %	4,174,000
Romania	21,904,551	8,578,484	39.2 %	1.7 %	4,161,340
Russia	138,739,892	61,472,011	44.3 %	12.3 %	5,237,420
San Marino	31,817	17,000	53.4 %	0.0 %	8,240
Serbia	7,310,555	4,107,000	56.2 %	0.8 %	3,173,440
Slovakia	5,477,038	4,337,868	79.2 %	0.9 %	1,889,160
Slovenia	2,000,092	1,420,776	71.0 %	0.3 %	670,660
Spain	46,754,784	30,654,678	65.6 %	6.1 %	15,682,800
Svalbard & Jan Mayen	2,019	n/a	n/a	n/a	n/a
Sweden	9,088,728	8,441,718	92.9 %	1.7 %	4,519,780
Switzerland	7,639,961	6,430,363	84.2 %	1.3 %	2,727,600
Turkey	78,785,548	35,000,000	44.4 %	7.3 %	30,963,100
Ukraine	45,134,707	15,300,000	33.9 %	3.1 %	1,686,500
United Kingdom	62,698,362	52,731,209	84.1 %	10.5 %	30,470,400
Vatican City State	832	480	57.7 %	0.0 %	20
TOTAL Europe	816,426,346	500,723,686	61.3 %	100.0 %	235,525,280



Number of Internet Hosts



INTERNET SYSTEMS CONSORTIUM

ISC Domain Survey: Number of Internet Hosts

SOFTWARE
PROFESSIONAL
SERVICES
OPERATIONS
PUBLICATIONS
RESOURCES
COMPANY STORE
ABOUT ISC

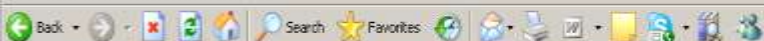
Date	Hosts	Adjusted Counts	Source
08/1981	213	N/A	host table
05/1982	235	N/A	
08/1983	562	N/A	
10/1984	1,024	N/A	
10/1985	1,961	N/A	
02/1986	2,308	N/A	
11/1986	5,089	N/A	
12/1987	28,174	N/A	old domain survey
07/1988	33,000	N/A	
10/1988	56,000	N/A	
01/1989	80,000	N/A	
07/1989	130,000	N/A	
10/1989	159,000	N/A	
10/1990	313,000	N/A	
01/1991	376,000	N/A	
07/1991	535,000	N/A	
10/1991	617,000	N/A	
01/1992	727,000	N/A	
04/1992	890,000	N/A	
07/1992	992,000	N/A	
10/1992	1,136,000	N/A	
01/1993	1,313,000	N/A	
04/1993	1,486,000	N/A	
07/1993	1,776,000	N/A	
10/1993	2,056,000	N/A	
01/1994	2,217,000	N/A	

CONTACT ISC

PRIVACY STATEMENT



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INTERNET SYSTEMS CONSORTIUM

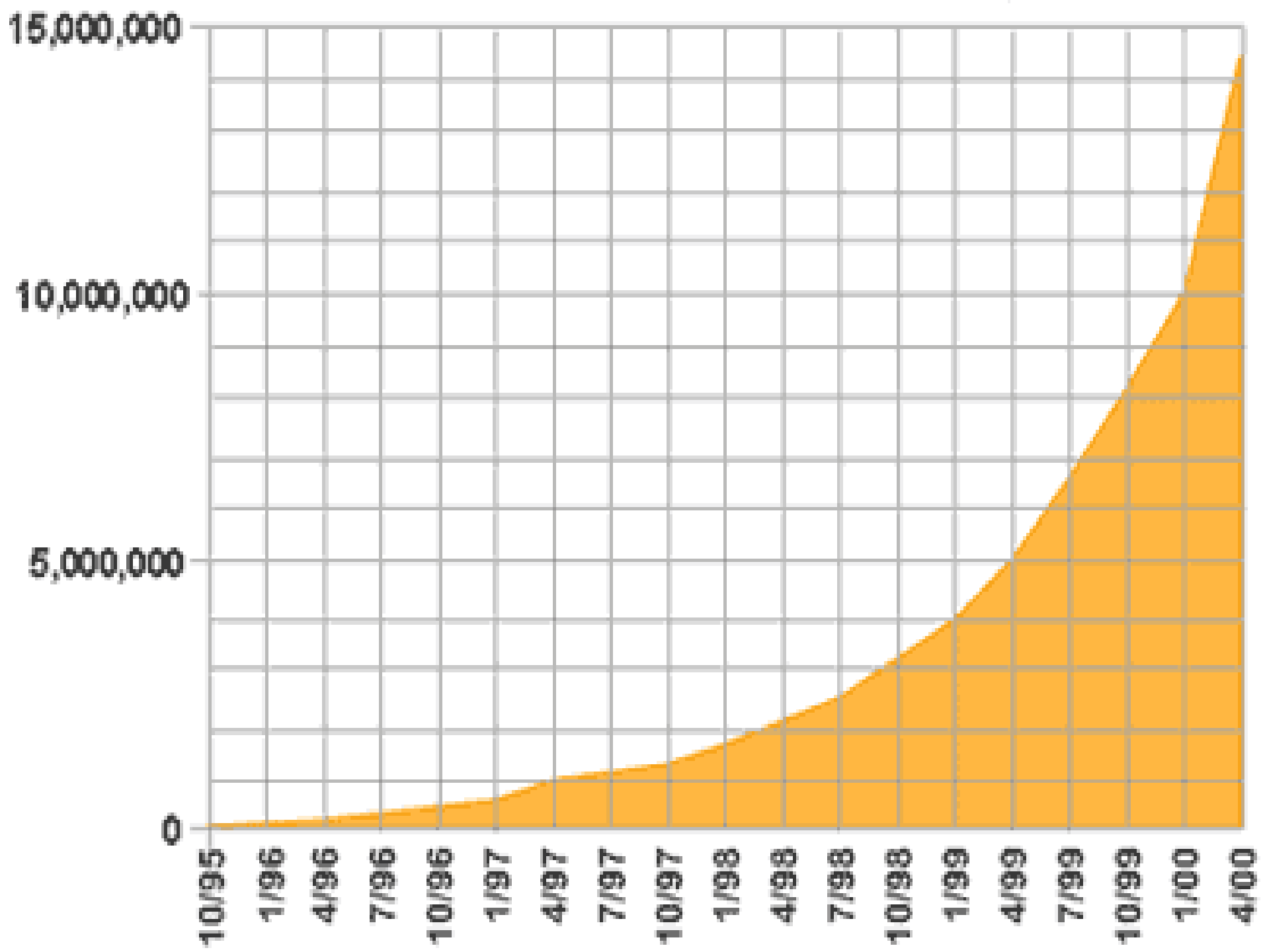
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10/1993	2,056,000	N/A
01/1994	2,217,000	N/A
07/1994	3,212,000	N/A
10/1994	3,864,000	N/A
01/1995	4,852,000	5,846,000
07/1995	6,642,000	8,200,000
01/1996	9,472,000	14,352,000
07/1996	12,881,000	16,729,000
01/1997	16,146,000	21,819,000
07/1997	19,540,000	26,053,000
01/1998	29,670,000	N/A
07/1998	36,739,000	N/A
01/1999	43,230,000	N/A
07/1999	56,218,000	N/A
01/2000	72,398,092	N/A
07/2000	93,047,785	N/A
01/2001	109,574,429	N/A
07/2001	125,888,197	N/A
01/2002	147,344,723	N/A
07/2002	162,128,493	N/A
01/2003	171,638,297	N/A
01/2004	233,101,481	N/A
07/2004	285,139,107	N/A
01/2005	317,646,084	N/A
07/2005	353,284,187	N/A
01/2006	394,991,609	N/A
07/2006	439,286,364	N/A
01/2007	433,193,199	N/A
07/2007	489,774,269	N/A

new domain survey



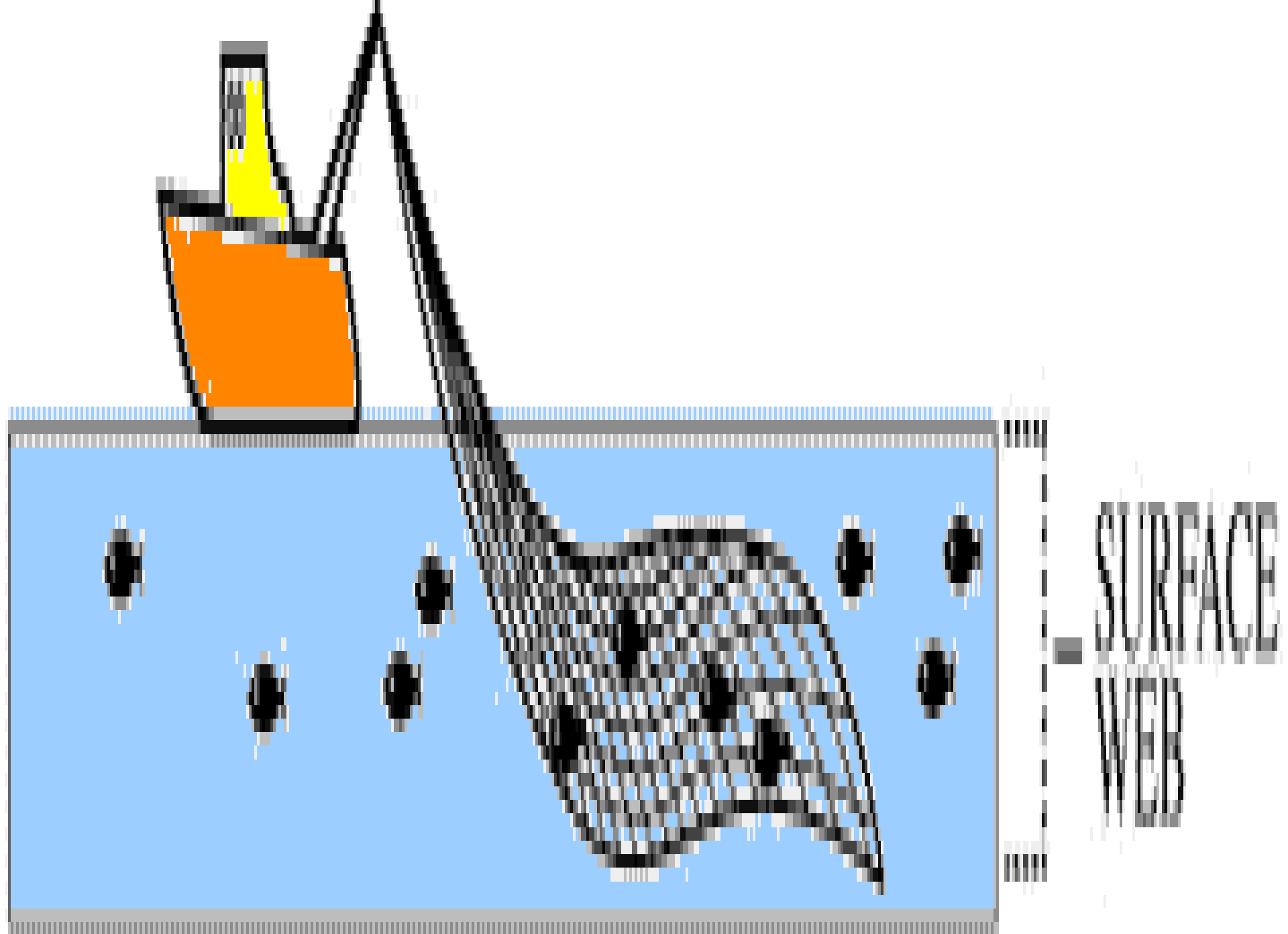
Web Sitesi Sayıları

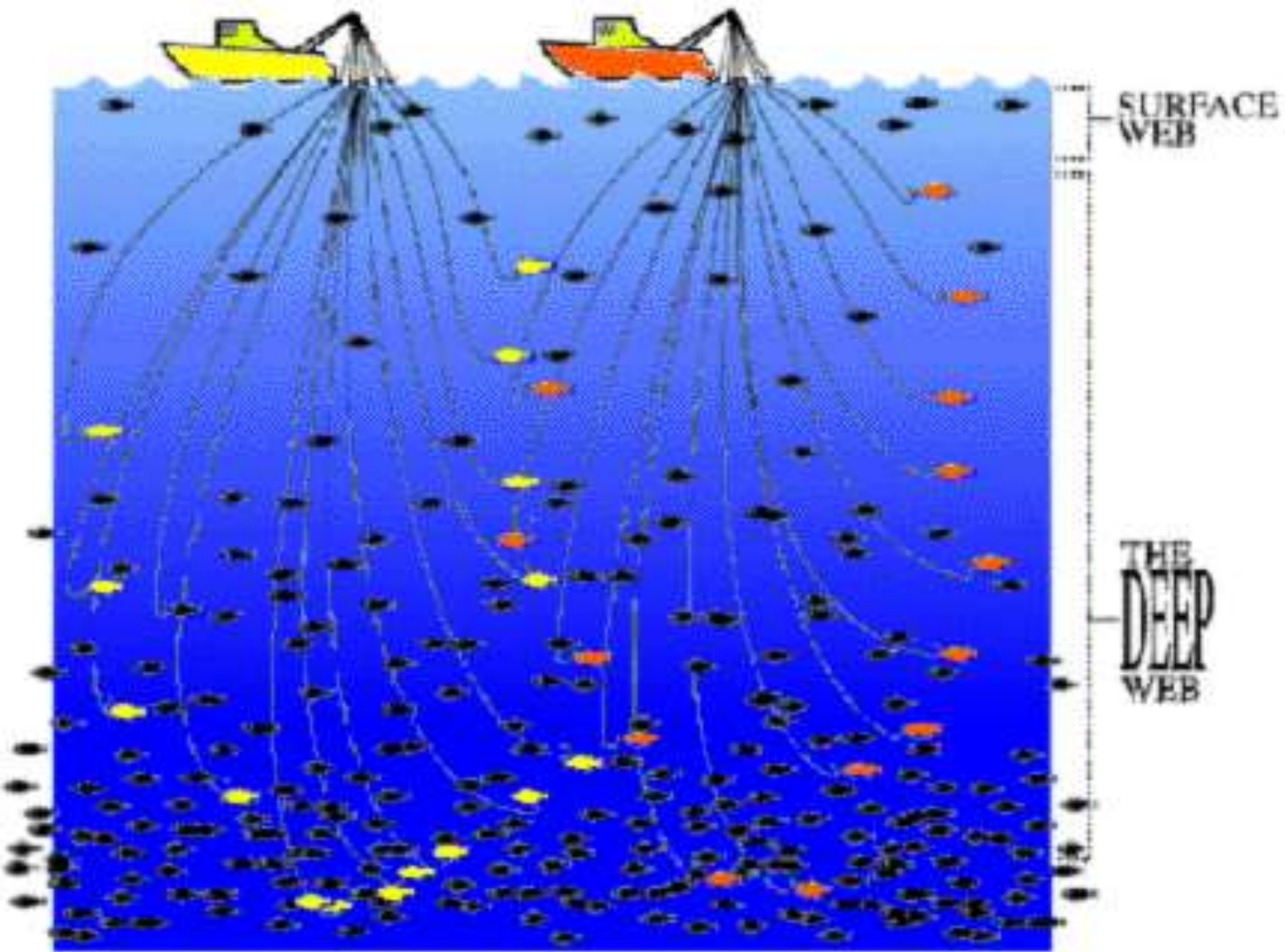
❖ 6/93	130
❖ 12/93	623
❖ 6/94	2.738
❖ 12/94	10.022
❖ 6/95	23.500
❖ 1/96	100.000 (Gray 1996)





Yüzey Web * Derin Web







HTML Nedir?

- ❖ Hyper Text Markup Language
- ❖ Hiper Metin İşaretleme Dili
 - ❖ Internet üzerinde Web sayfası oluşturmak için kullanılır
- ❖ HTTP: HTML dosyalarının aktarımı için kullanılan protokol



Internet Protokolleri

- ❖ HTTP (Hypertext Transfer Protocol)
- ❖ HTTPS (Secure Hypertext Transfer Protocol)
- ❖ SMTP (Simple Mail Transfer Protocol)
- ❖ FTP (File Transfer Protocol)
- ❖ TFTP (Trivial File Transfer Protocol)
- ❖ SNMP (Simple Network Management Protocol)
- ❖ IRC (Internet Relay Chat)


[Argentina](#), [Australia](#), [Italy](#), [Kuwait](#), [United Kingdom](#), [USA](#)

Welcome to the mIRC Homepage!

Search Website:

The mIRC homepage provides the latest news on mIRC, general IRC information, and links to many other [IRC-related websites and resources](#). Please click on one of the links to the left to find out more. We hope that you find this website useful, and your experience on IRC enjoyable! Have fun :-)

[Latest News](#)
[Download mIRC](#)
[How to Install](#)
[Translations](#)
[Message Board](#)

[Intro to IRC](#)
[IRC FAQ](#)

[Intro to mIRC](#)
[mIRC FAQ](#)
[Comment List](#)

[How to Register](#)

[Mailing Lists](#)
[IRC Networks](#)
[Chat Links](#)
[More Info \(Links\)](#)

mIRC 6.2 has been released! (July 25th 2006)

Of course this new version addresses the buggies and most of the other comments and remarks we received after the previous release. Apart from that Khaled spend lots of time on the UTF-8 support that was added in the previous version. As you might know UTF-8 is a font encoding system that allows you to use fonts with strange, international characters. That of course helps a lot if you want to chat in your own language!

UTF-8 support has been greatly enhanced in this version of mIRC with the addition of font substitution/font linking. This allows mIRC to display all characters needed, regardless of the font you are using, assuming you have the required fonts on your system, somewhere. mIRC will try to match font sizes etc. To speed up the process Khaled has implemented his own caching routines to enable fast font/character referencing.

mIRC's default toolbar is now customizable through a /toolbar command. By popular demand also a treebar has been added. This lists network connections with channels, queries and other open windows, much like the switchbar. It behaves like the switchbar in many ways as well. You can expand and collapse trees, just like you would expect. Just like the toolbar the treebar can be repositioned to the top/bottom/left/right of the main mIRC window!

For experienced users and scripting enthusiasts this new version has heaps of changes and other new things to play with. We encourage you to explore the new or improved identifiers, and the new events that have been added. In total over 120 changes have been made to mIRC. You'll have to dig through the help file in mIRC and the [what'snew.txt](#) on the Web to learn about the complete list of changes and their impact. Some changes are obvious, some need getting used to - please take your time to play with them and see how they work?

May we invite you to visit the [Message Board](#) on the website with all questions you might have? The board offers great help with everything related to mIRC! Thanks for using mIRC, lots of fun on IRC.

What is IRC?

IRC ([Internet Relay Chat](#)) is a virtual meeting place where people from all over the world can meet and talk, you'll find the whole diversity of human interests, ideas, and issues here, and you'll be able to participate in group discussions on one of the many thousands of IRC channels, on hundreds of IRC networks, or just talk in private to family or friends, wherever they are in the world.

What is mIRC?

To use IRC you need a small program like mIRC, an IRC client for Windows, written by [Khaled Mardam-Bey](#). mIRC is a friendly IRC client that is well equipped with options and tools. mIRC is shareware, which means that you can [download mIRC](#) and try it out freely for 30 days to evaluate it. If during, or at the end of, the evaluation period you decide that you would like to continue using mIRC, you must [register your copy](#).

Message board

The mIRC website has a useful and friendly [message board](#) where you can post questions if you need help, or just discuss mIRC and IRC-related issues. The message board can be used by anyone, so feel free to dive right in. If you're new to the message board and wish to post questions, make sure that you log in as a New User first.

mIRC Release announcement list

We can send you an announcement by E-mail as soon as a new mIRC version has released! Subscribing to this list is very easy, just fill in your E-mail address below and we will make sure you will be among the first to know about every new mIRC version. We will update you on the new functions and features in mIRC and you will get a list of fast download addresses. We guarantee your E-mail address will only be used for release announcements. Read more on the [mailing lists](#) page.

Fill in your E-mail Address:

and push the button:



Bazı Örnek Adresler

Protokol	Alan adı (domain)
http://	www.dpt.gov.tr
https://	adwords.google.com
http//	www.lib.umich.edu
ftp://	yunus.hacettepe.edu.tr



Bazı Örnek Etiketler

Etiket (tag)	Anlamı
<title>	Başlık
<body>	İçeriğin yer aldığı bölge
<body bgcolor=" ">	Arka alan rengi
<body background=" ">	Arka alan resmi
	Liste
	Bağlantı oluşturma
	Koyu (bold) yazı

Log On As

Either the server does not allow anonymous logins or the e-mail address was not accepted.

FTP server: yunus.hacettepe.edu.tr

User name: unmutal

Password: *****

After you log on, you can add this server to your Favorites and return to it easily.

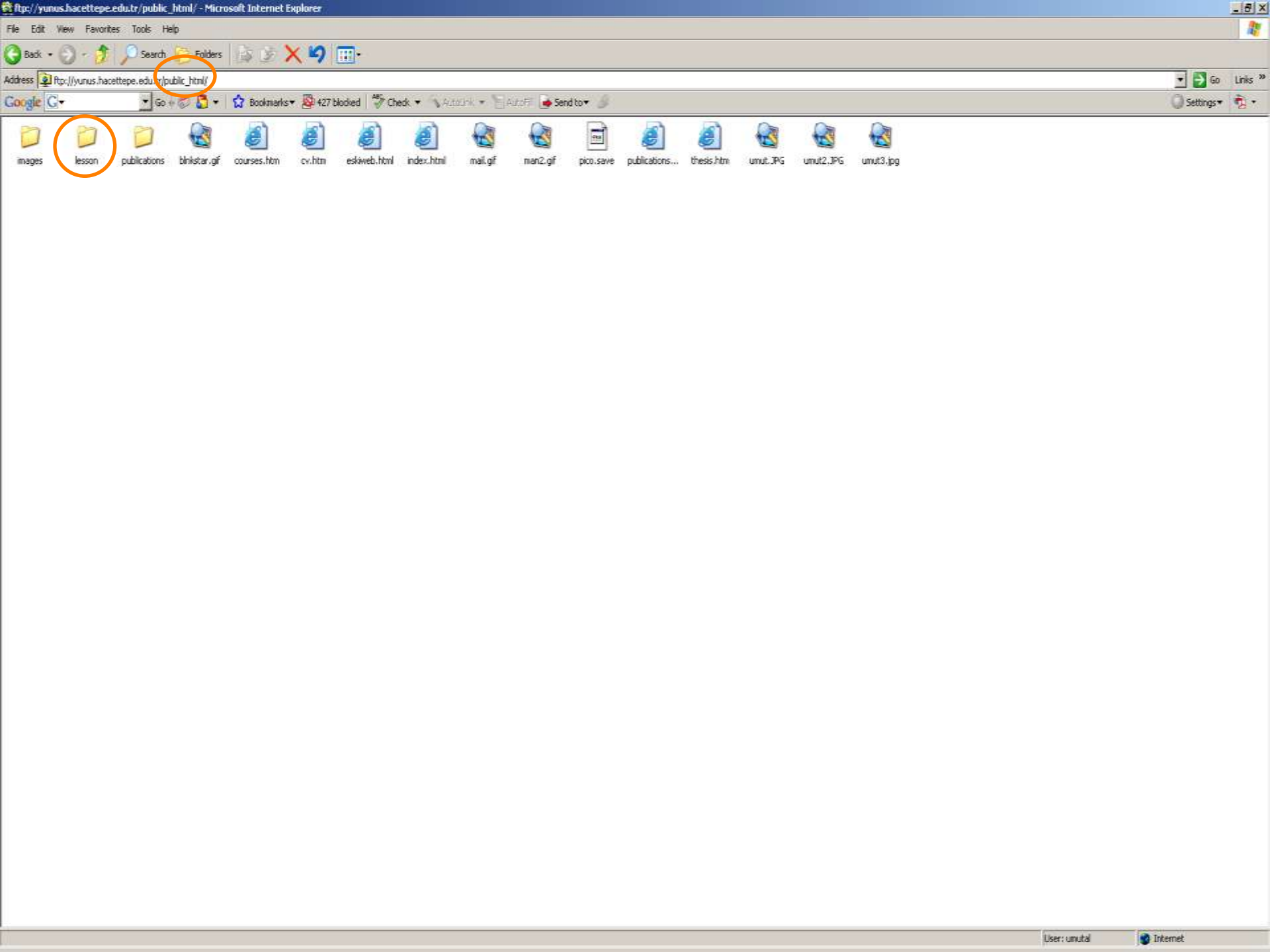
FTP does not encrypt or encode passwords or data before sending them to the server. To protect the security of your passwords and data, use Web Folders (WebDAV) instead.

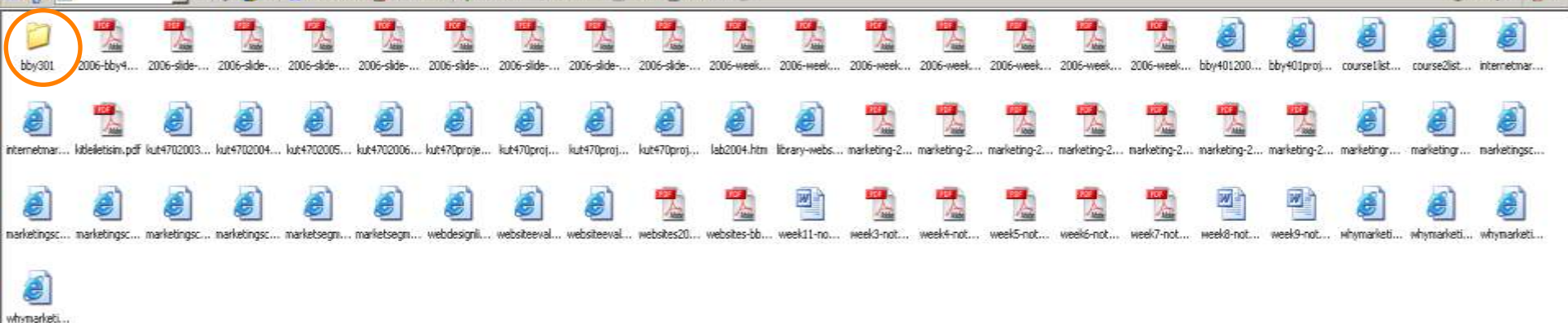
Learn more about [using Web Folders](#).

☐ Log on anonymously ☐ Save password

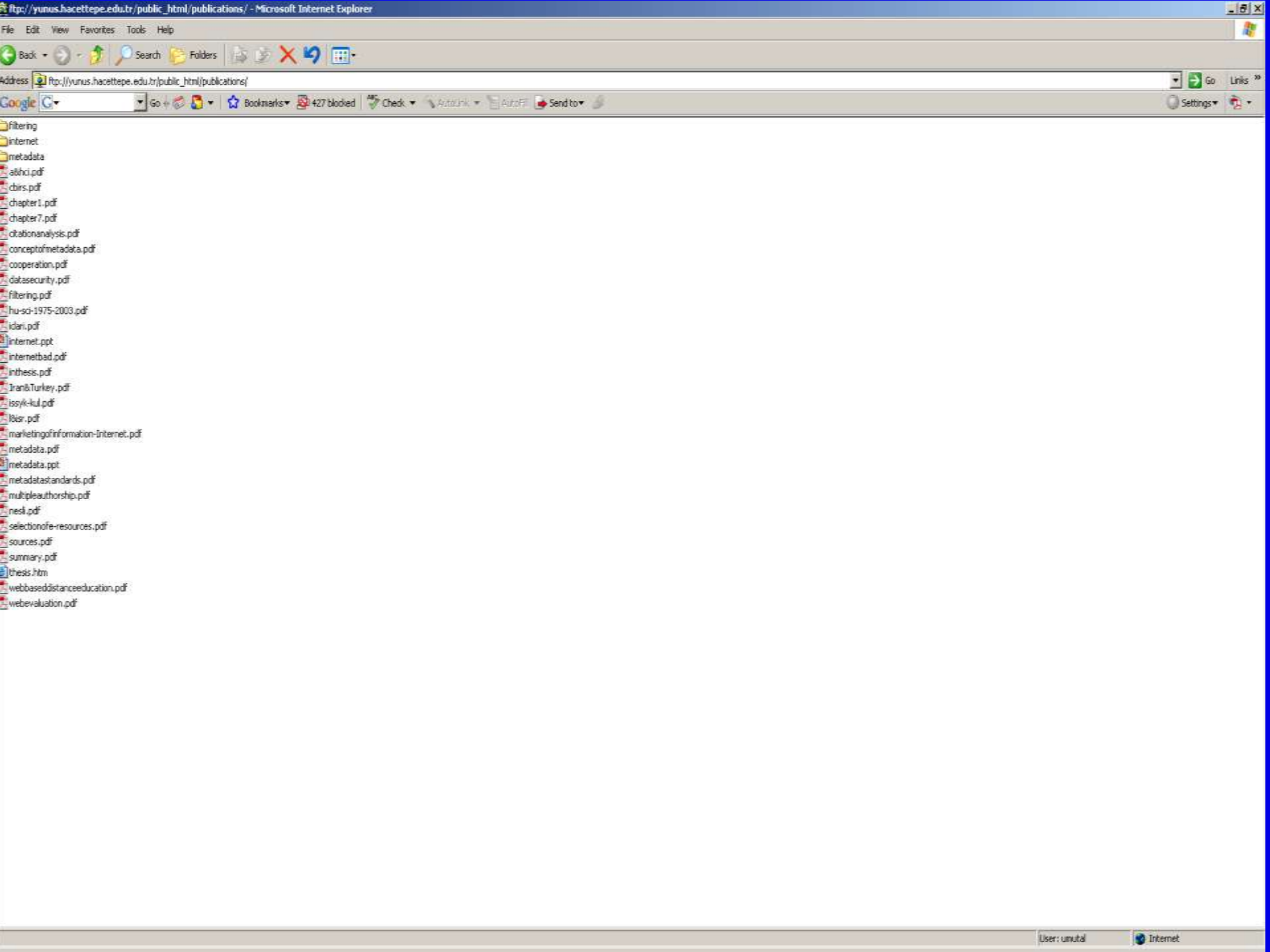
Log On Cancel

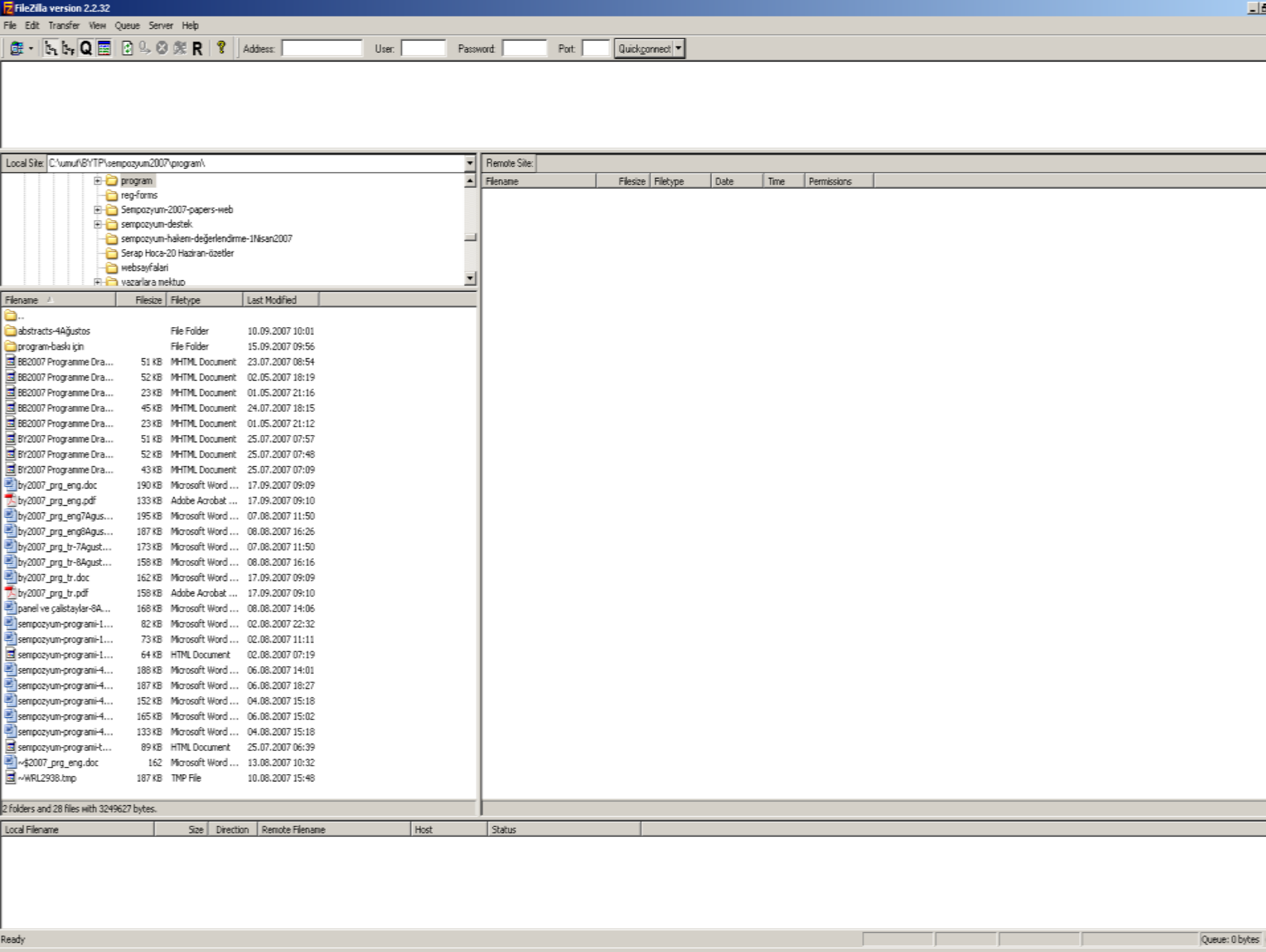


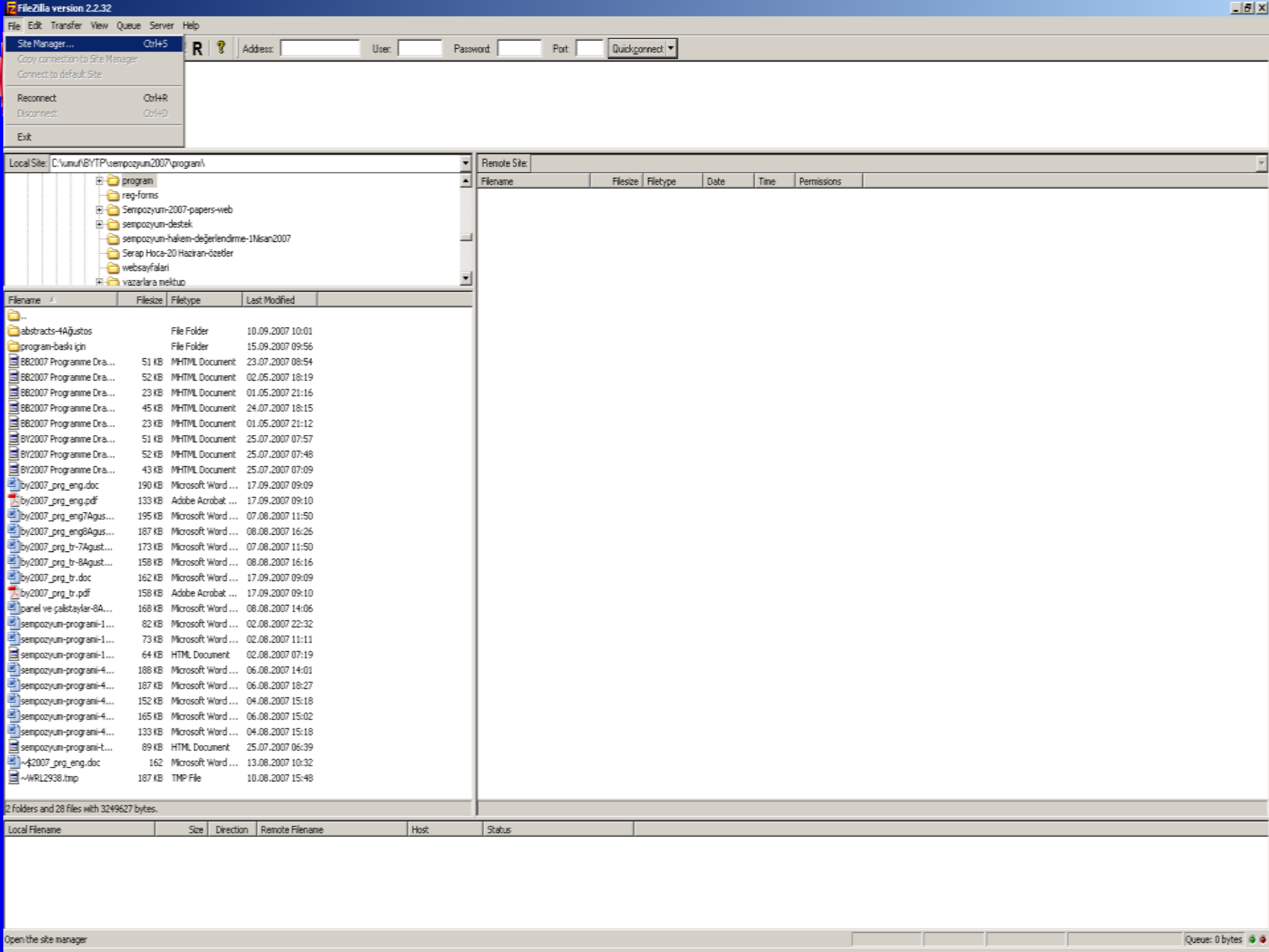












Address: User: Password: Port: Quickconnect

Local Site: C:\umut\BYTP\senpozyun2007\program\

- program
- reg-forms
- Senpozyun-2007-papers-web
- senpozyun-destek
- senpozyun-hakani-değerlendirme-1Nisan2007
- Serap Hoca-20 Haziran-özetler
- websayfaları
- vazarlara mektup

Filename	Filesize	Filetype	Last Modified
..			
abstracts-4Ağustos		File Folder	10.09.2007 10:01
program-baski için		File Folder	15.09.2007 09:56
682007 Programme Dra...	51 KB	MHTML Document	23.07.2007 08:54
682007 Programme Dra...	52 KB	MHTML Document	02.05.2007 18:19
682007 Programme Dra...	23 KB	MHTML Document	01.05.2007 21:16
682007 Programme Dra...	45 KB	MHTML Document	24.07.2007 18:15
682007 Programme Dra...	23 KB	MHTML Document	01.05.2007 21:12
6Y2007 Programme Dra...	51 KB	MHTML Document	25.07.2007 07:57
6Y2007 Programme Dra...	52 KB	MHTML Document	25.07.2007 07:48
6Y2007 Programme Dra...	43 KB	MHTML Document	25.07.2007 07:09
by2007_prg_eng.doc	190 KB	Microsoft Word ...	17.09.2007 09:09
by2007_prg_eng.pdf	133 KB	Adobe Acrobat ...	17.09.2007 09:10
by2007_prg_eng7Ağus...	195 KB	Microsoft Word ...	07.08.2007 11:50
by2007_prg_eng8Ağus...	187 KB	Microsoft Word ...	08.08.2007 16:26
by2007_prg_b-7Ağus...	173 KB	Microsoft Word ...	07.08.2007 11:50
by2007_prg_b-8Ağus...	158 KB	Microsoft Word ...	08.08.2007 16:16
by2007_prg_b.doc	162 KB	Microsoft Word ...	17.09.2007 09:09
by2007_prg_b.pdf	158 KB	Adobe Acrobat ...	17.09.2007 09:10
panel ve calistaylar-8A...	168 KB	Microsoft Word ...	08.08.2007 14:06
senpozyun-programi-1...	82 KB	Microsoft Word ...	02.08.2007 22:32
senpozyun-programi-1...	73 KB	Microsoft Word ...	02.08.2007 11:11
senpozyun-programi-1...	64 KB	HTML Document	02.08.2007 07:19
senpozyun-programi-4...	188 KB	Microsoft Word ...	06.08.2007 14:01
senpozyun-programi-4...	187 KB	Microsoft Word ...	06.08.2007 18:27
senpozyun-programi-4...	152 KB	Microsoft Word ...	04.08.2007 15:18
senpozyun-programi-4...	165 KB	Microsoft Word ...	06.08.2007 15:02
senpozyun-programi-4...	133 KB	Microsoft Word ...	04.08.2007 15:18
senpozyun-programi-t...	89 KB	HTML Document	25.07.2007 06:39
~\$2007_prg_eng.doc	162	Microsoft Word ...	13.08.2007 10:32
~WRL2938.tmp	187 KB	TMP File	10.08.2007 15:48

2 folders and 28 files with 3249627 bytes.

Remote Site:						
Filename	Filesize	Filetype	Date	Time	Permissions	

File

My FTP Sites

by2007

Site details

Host: Port:

Servertype:

Logontype

☐ Anonymous ☒ Normal ☐ Account

☐ Bypass proxy settings

User: Account:

Password:

☐ Don't save password.

Comments:

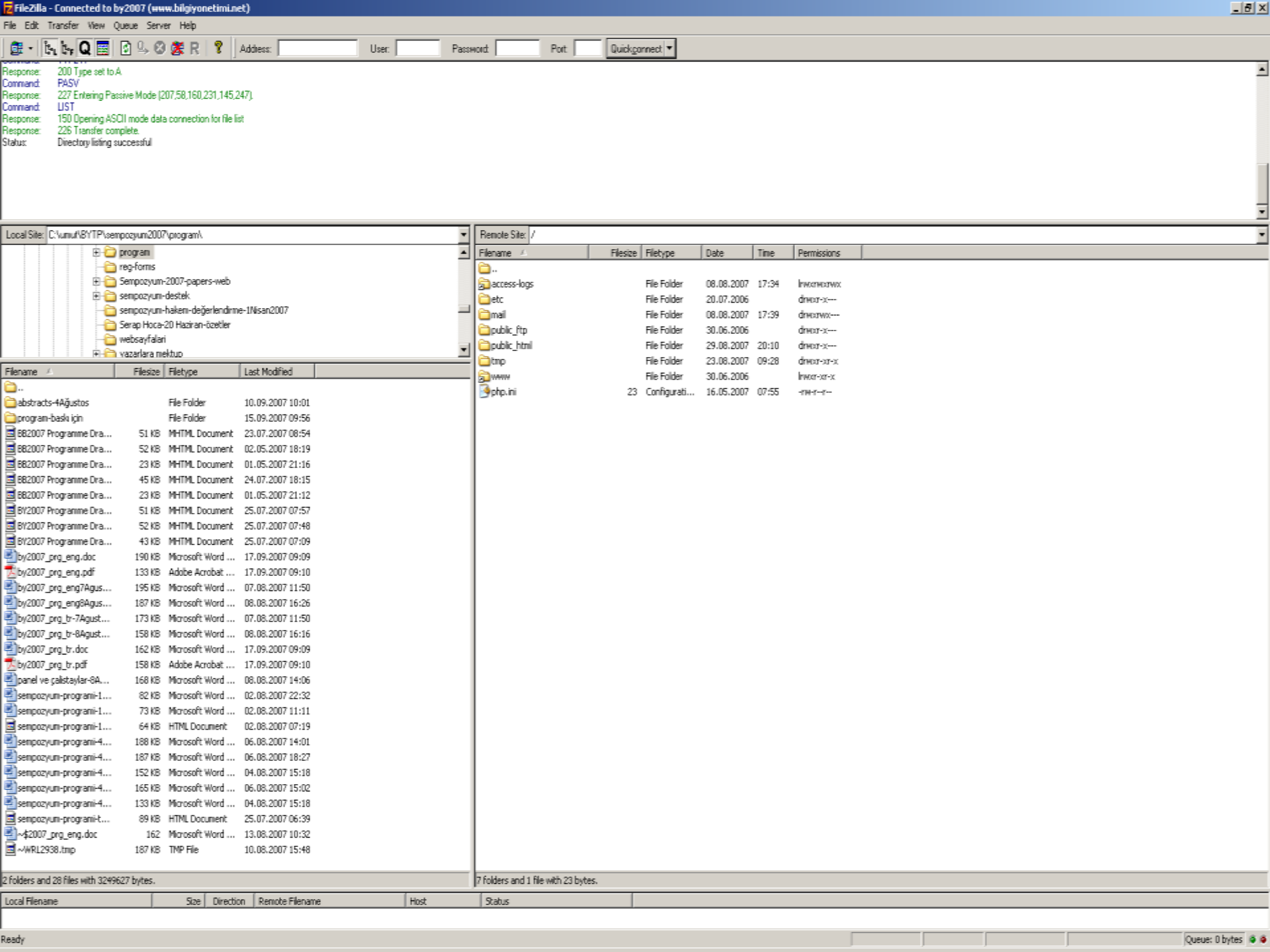
☐ Default site

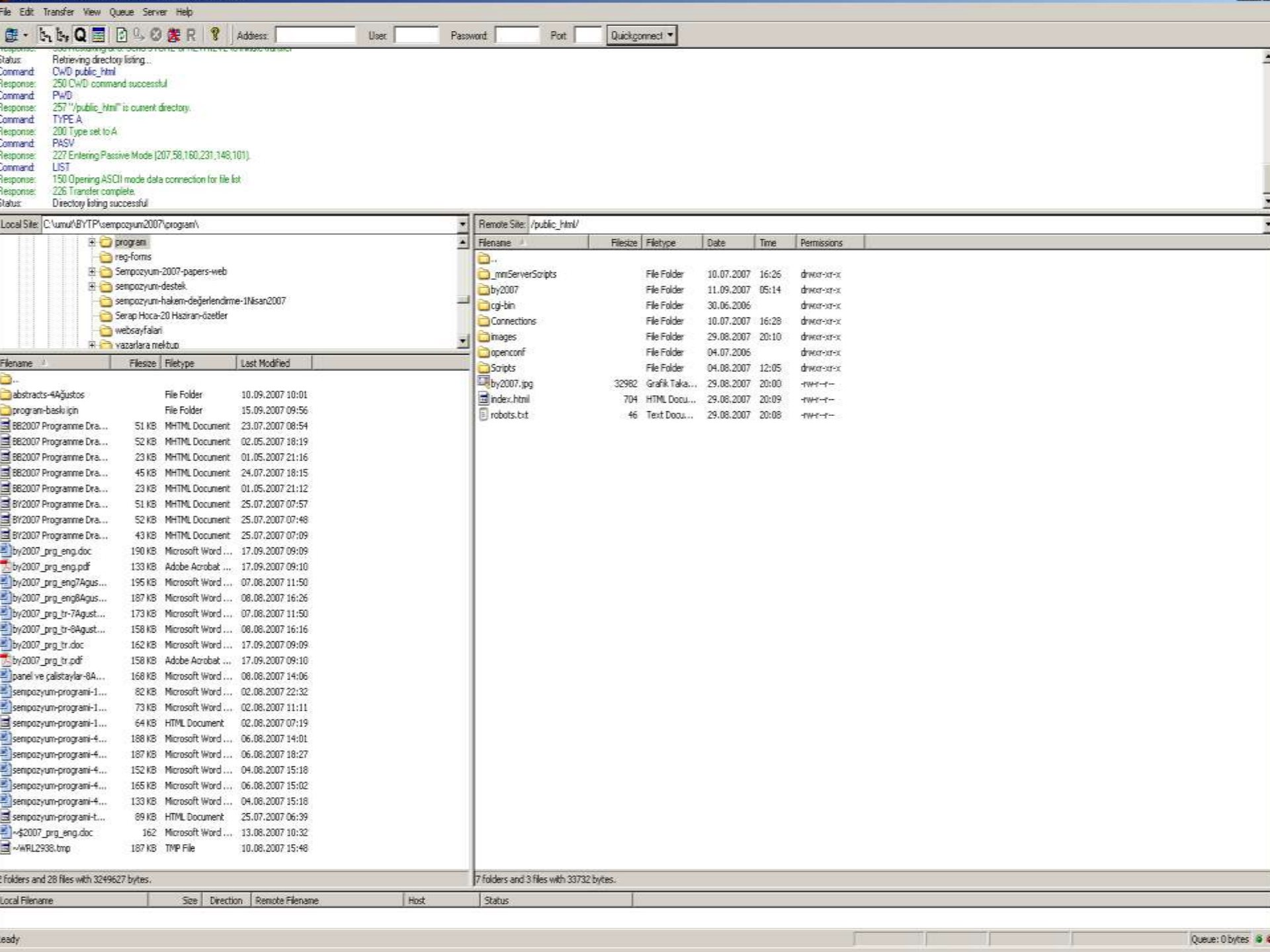
New Site New Folder Delete

Copy Rename Advanced...

Connect Cancel Save and Exit

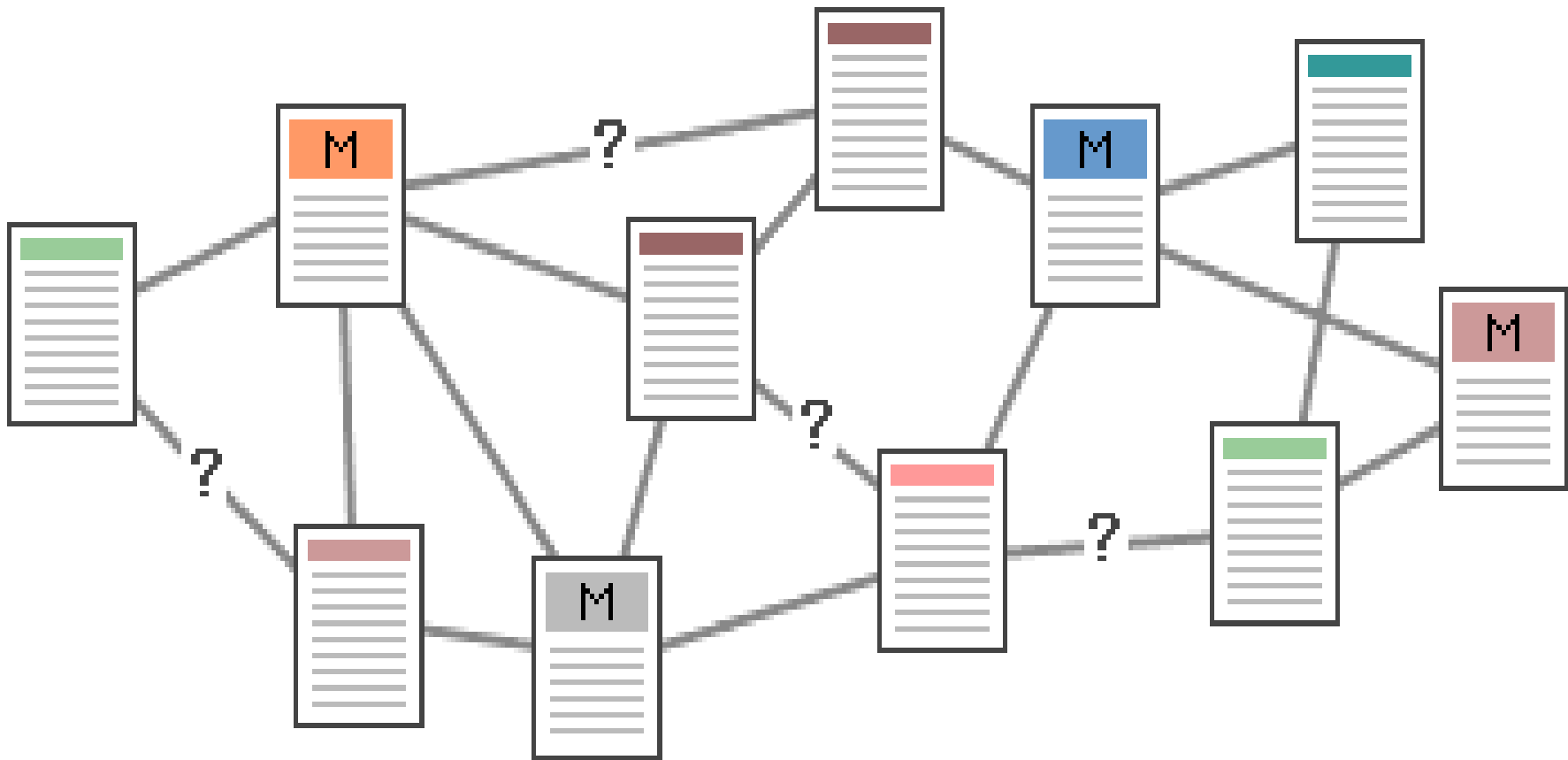
Local Filename	Size	Direction	Remote Filename	Host	Status
----------------	------	-----------	-----------------	------	--------







Site İçi Hiyerarşi



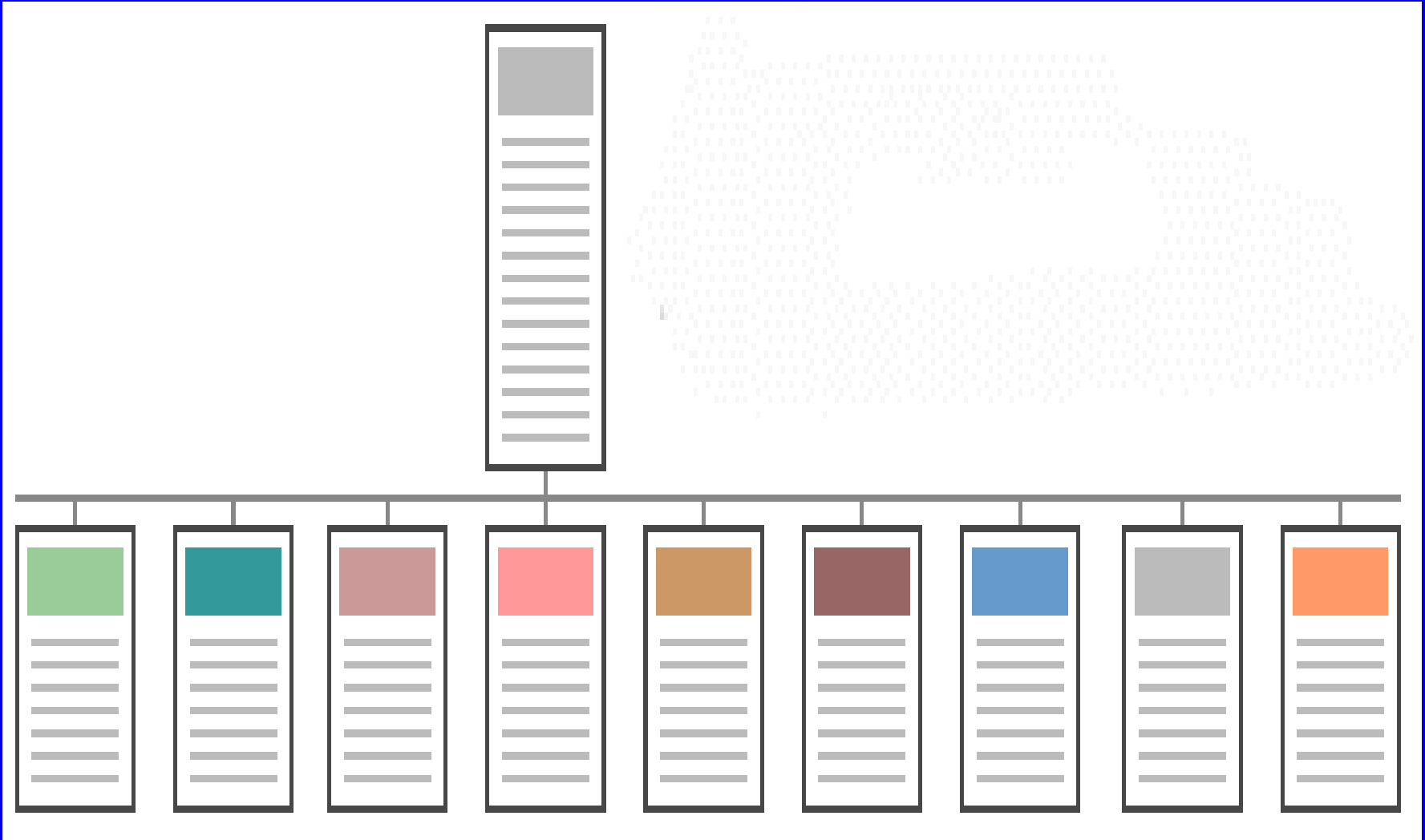


Site İçi Hiyerarşi



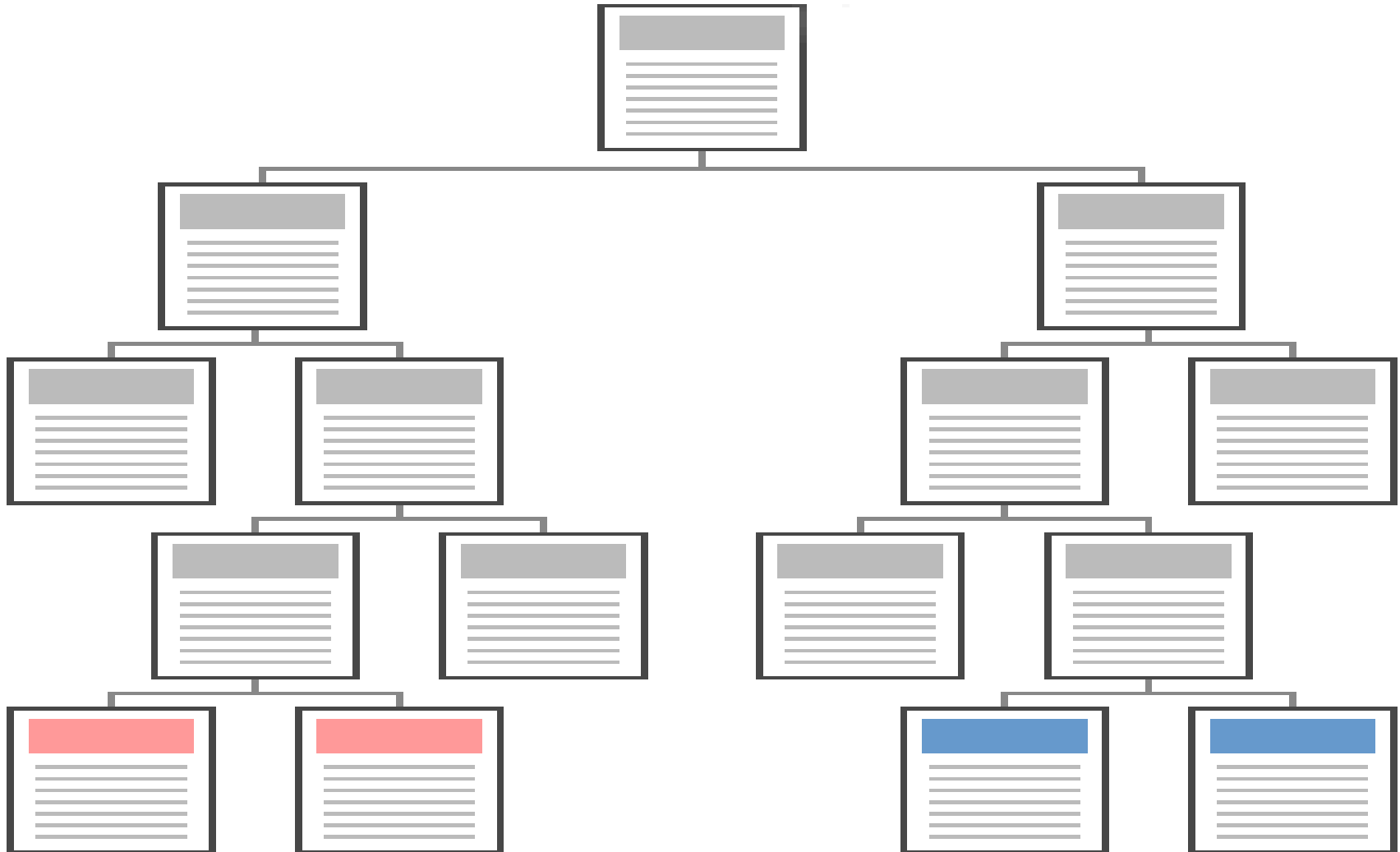


Geniş Yapı



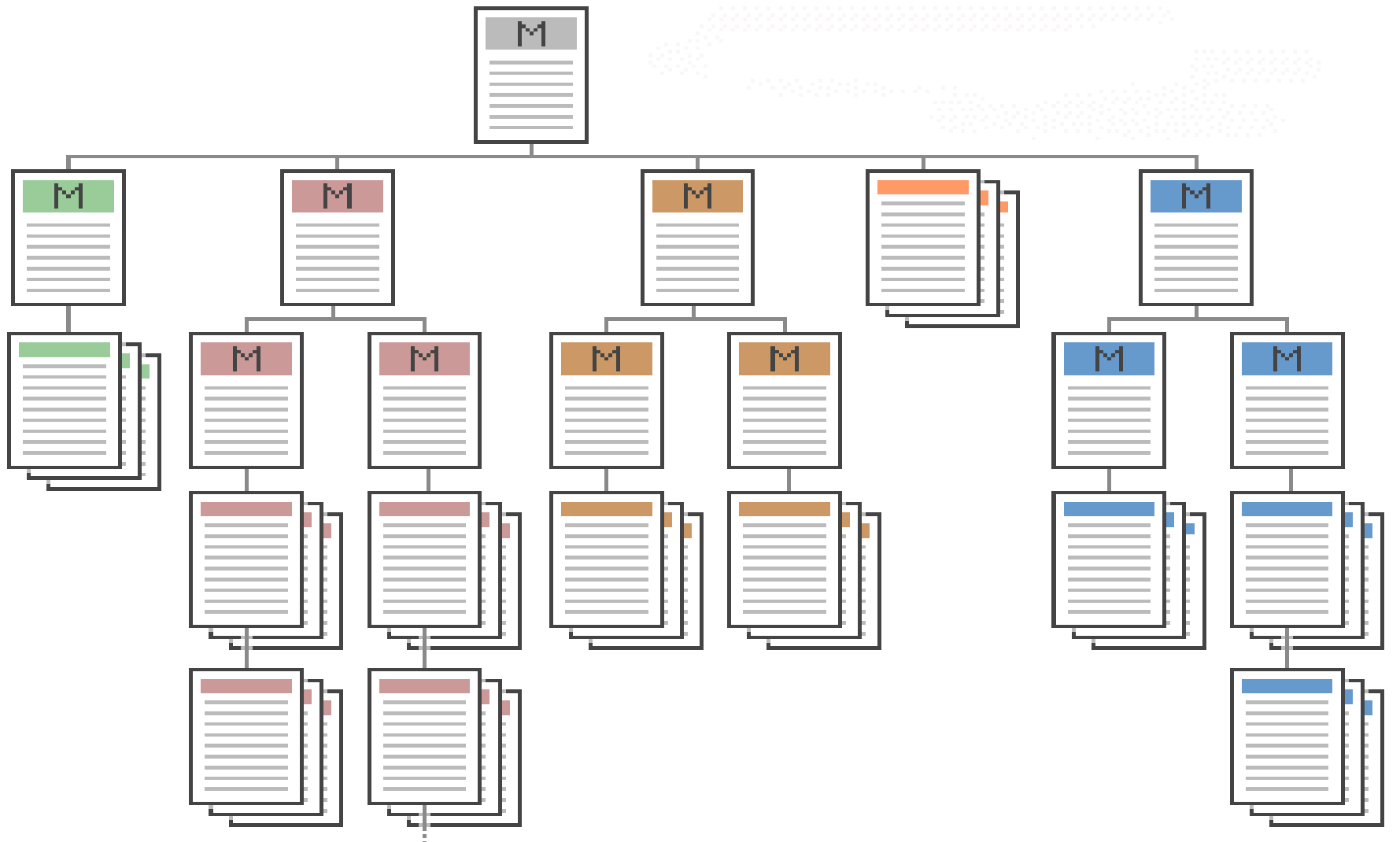


Derin Yapı





Geniş ve Derin Yapı





Web Tasarımı İçin Kullanılabilecek Yazılımlar

- ❖ FrontPage
- ❖ Dreamweaver
- ❖ Fireworks
- ❖ Composer
- ❖ Word