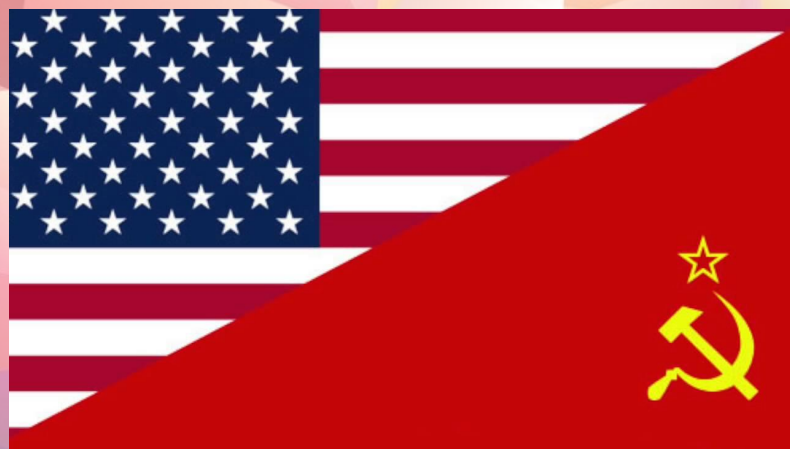


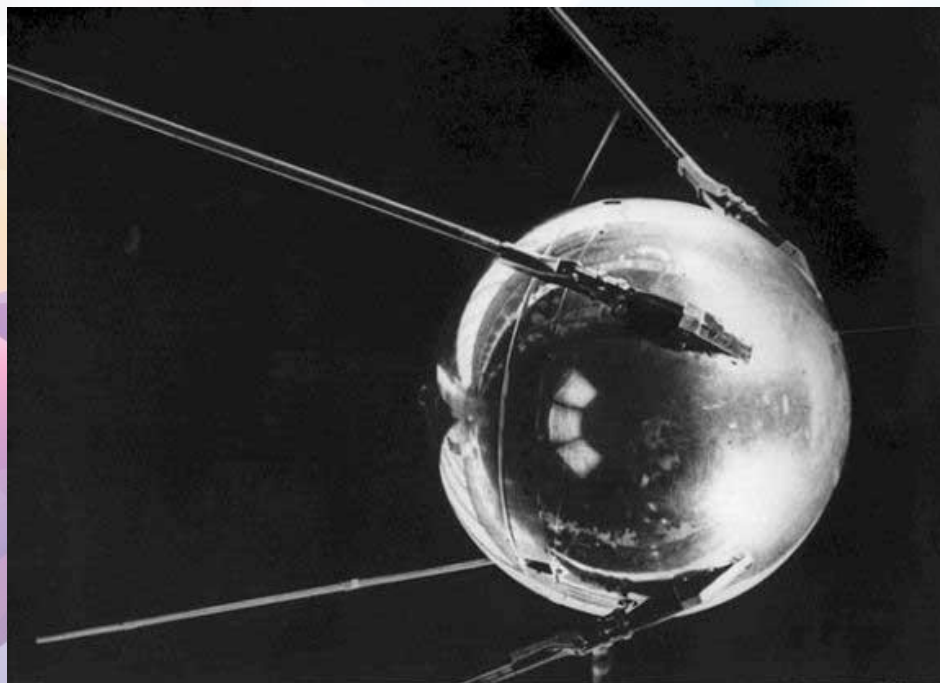
История сети Интернет

**Модуль 1
Занятие 1.1**

С чего всё началось?



Противостояние ПРО и ПВО систем

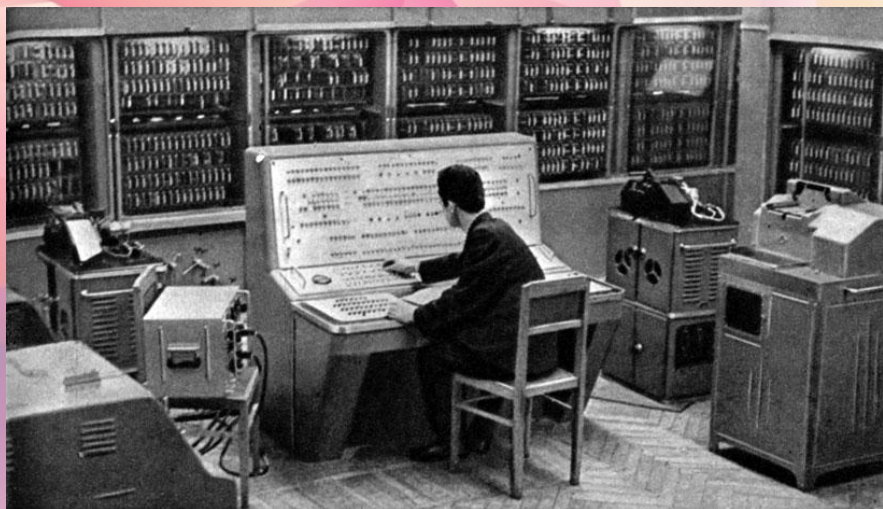


4 октября 1957 года
СССР запустила первый искусственный
спутник

1957

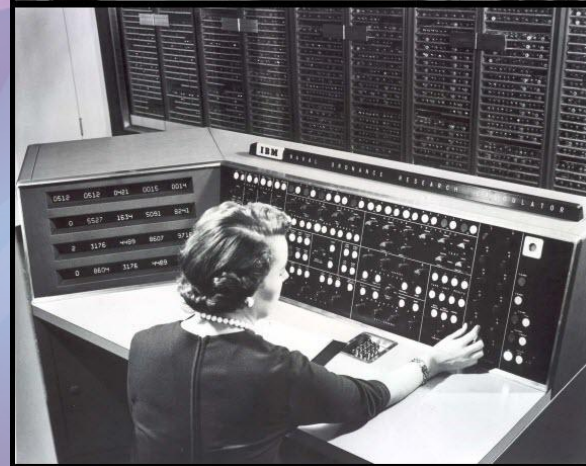


Основная цель – безопасность стран



БЭСМ-2

1957



IBM NORC

Оборонная инициатива

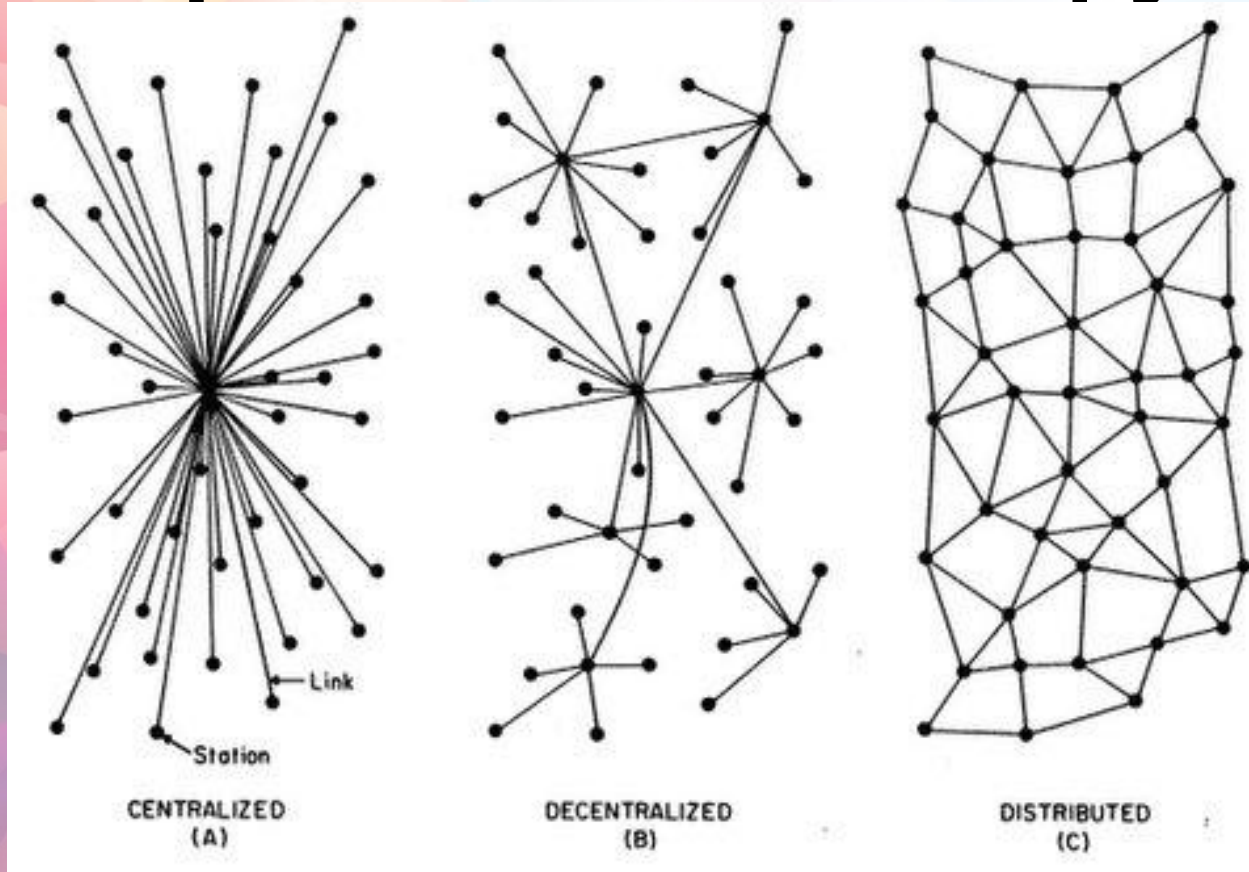


- DARPA объединила в себе
 - RAND (Военное ведомство)
 - NPL (Экономическое ведомство)
 - CYCLADES (Научное ведомство)
- Цель:
 - Лидерство в военно-научной сфере

1959



Появление децентрализованной структуры



1962



ARPANET

- ARPANET – прототип современного интернета.
- Связь и удалённое управление компьютерами
- Появление протокола TCP

ARPANET

1966

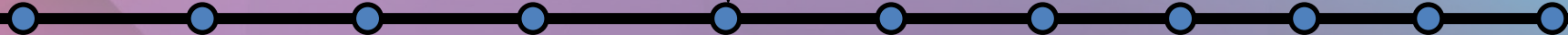


Первая передача данных

- На расстоянии 640 км было передано слово login, что означало попытку зайти в управляющую консоль.



1969



Первая передача почты по сети

```
[user@server ~]# mail
Mail version 8.1 6/6/93.  Type ? for help.
"/var/mail/user": 0 messages
& ?
      Mail  Commands
t <message list>      type messages
n                      goto and type next message
e <message list>      edit messages
f <message list>      give head lines of messages
d <message list>      delete messages
s <message list> file  append messages to file
u <message list>      undelete messages
R <message list>      reply to message senders
r <message list>      reply to message senders and all recipients
pre <message list>    make messages go back to /var/mail
m <user list>         mail to specific users
q                      quit, saving unresolved messages in mbox
x                      quit, do not remove system mailbox
h                      print out active message headers
!                      shell escape
cd [directory]        chdir to directory or home if none given

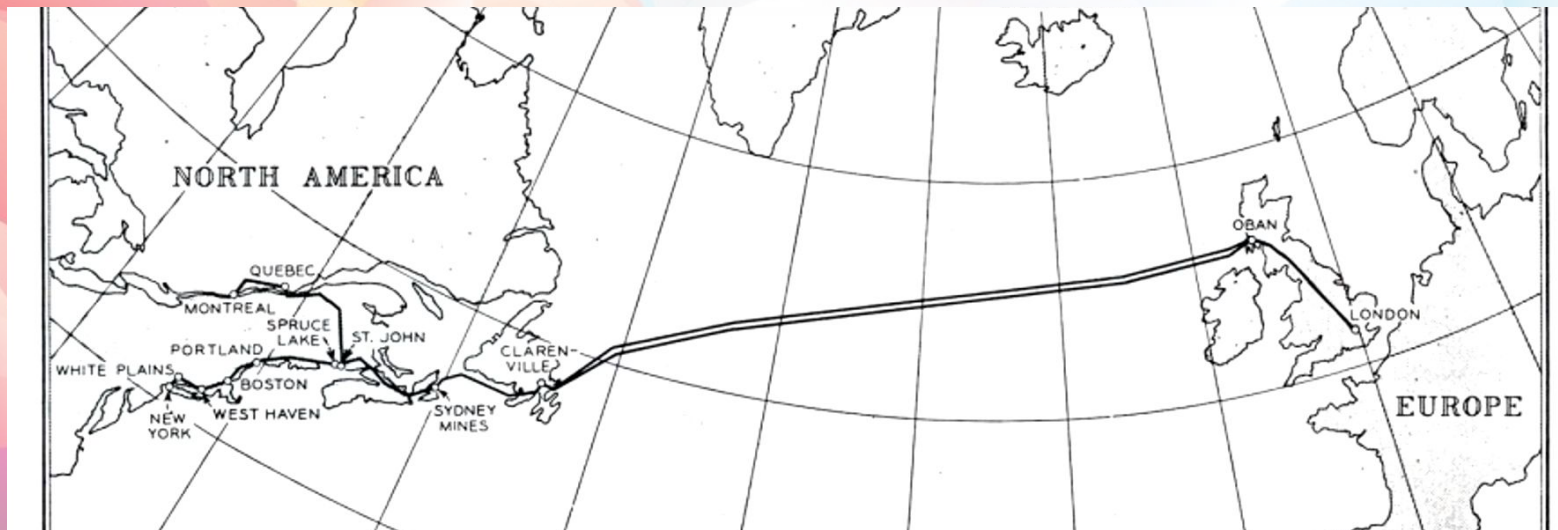
A <message list> consists of integers, ranges of same, or user names separated
by spaces.  If omitted, Mail uses the last message typed.

A <user list> consists of user names or aliases separated by spaces.
Aliases are defined in .mailrc in your home directory.
```

1971



День рождения интернета



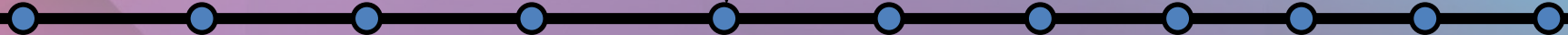
1973



Внедрение протокола TCP/IP

- Совмещение двух важнейших протоколов TCP и IP
- 4 уровня:
 - Прикладной
 - Транспортный
 - Сетевой
 - Канальный

1983



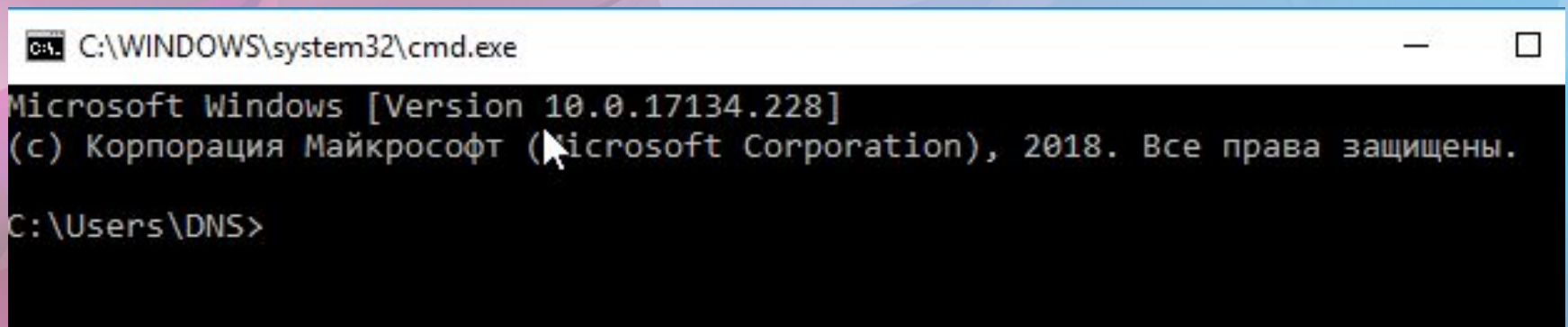
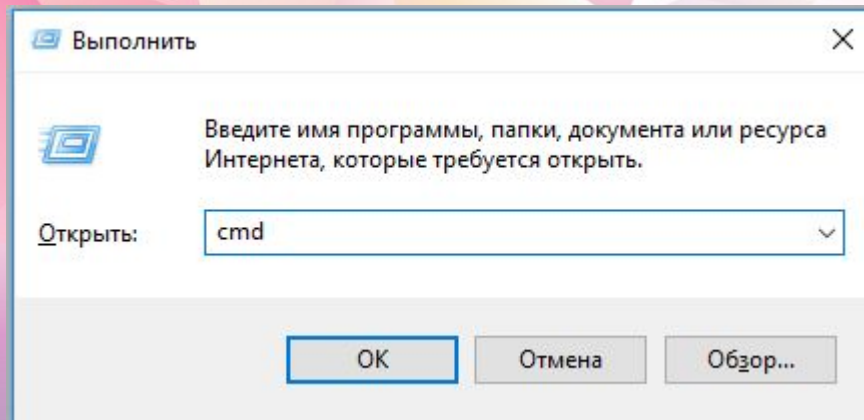
Введение доменных имён

- Корневой домен (пусто)
- Первый уровень (.ru, .com, .edu, .net, .org, .рф)
- Второй уровень – XXXXXX.com, можно купить
- Третий и далее – создаём самостоятельно

1984



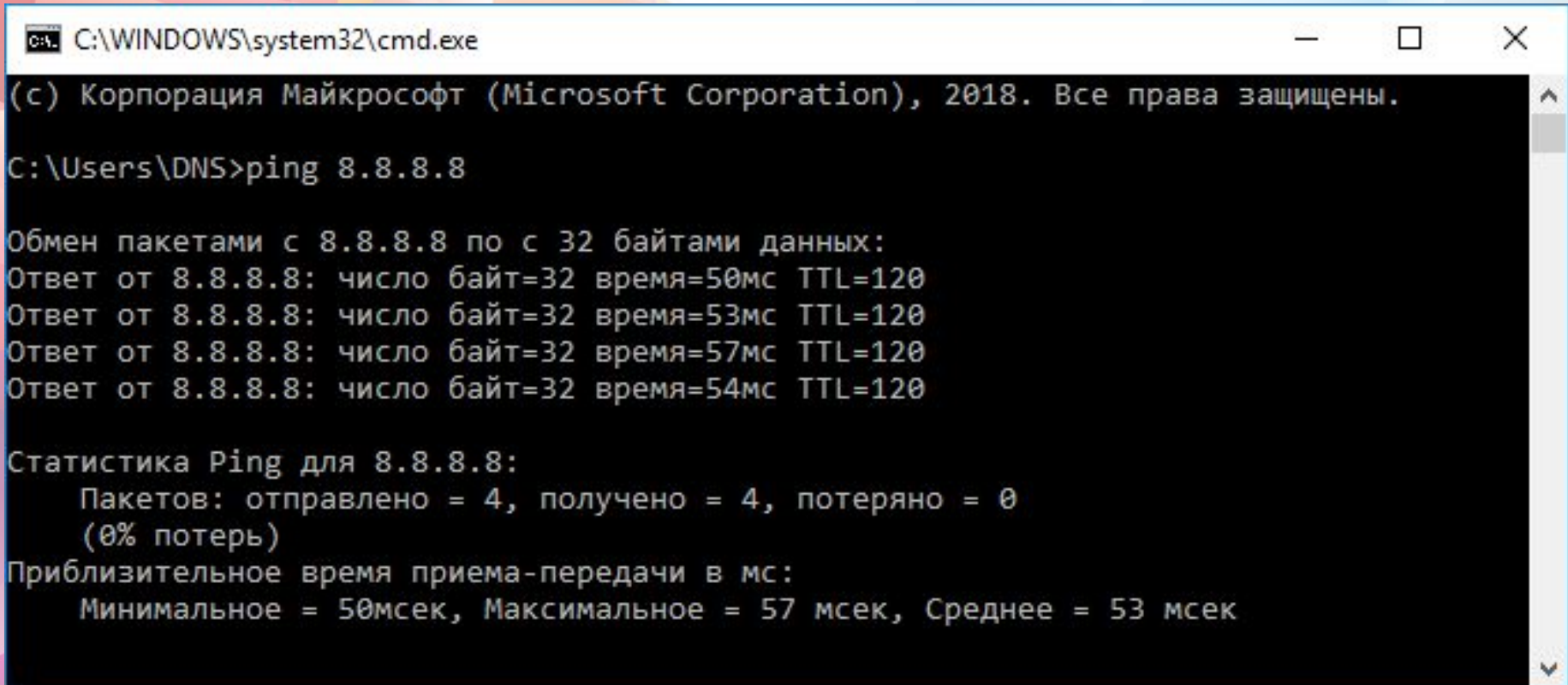
Практика Вызов консоли



```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.17134.228]
(c) Корпорация Майкрософт (Microsoft Corporation), 2018. Все права защищены.
C:\Users\DNS>
```

Практика: ping,

Выполните ping 8.8.8.8



```
C:\WINDOWS\system32\cmd.exe
(с) Корпорация Майкрософт (Microsoft Corporation), 2018. Все права защищены.
C:\Users\DNS>ping 8.8.8.8

Обмен пакетами с 8.8.8.8 по с 32 байтами данных:
Ответ от 8.8.8.8: число байт=32 время=50мс TTL=120
Ответ от 8.8.8.8: число байт=32 время=53мс TTL=120
Ответ от 8.8.8.8: число байт=32 время=57мс TTL=120
Ответ от 8.8.8.8: число байт=32 время=54мс TTL=120

Статистика Ping для 8.8.8.8:
    Пакетов: отправлено = 4, получено = 4, потеряно = 0
    (0% потерь)
Приблизительное время приема-передачи в мс:
    Минимальное = 50мсек, Максимальное = 57 мсек, Среднее = 53 мсек
```

Практика: tracert

Выполните tracert 8.8.8.8

```
C:\WINDOWS\system32\cmd.exe

Трассировка маршрута к google-public-dns-a.google.com [8.8.8.8]
с максимальным числом прыжков 30:

 1    <1 мс    <1 мс    <1 мс    Eltex.Home [192.168.1.1]
 2     2 ms     3 ms     3 ms     tmsk-bras3.sib.ip.rostelecom.ru [213.228.116.117]
 3     1 ms     1 ms     1 ms     ae5.tmsk-rgr6.sib.ip.rostelecom.ru [213.228.113.12]
 4    48 ms    51 ms    51 ms    95.167.90.96
 5    52 ms    48 ms    50 ms    5.143.253.107
 6    50 ms    48 ms    48 ms    108.170.250.97
 7    48 ms    48 ms    48 ms    72.14.233.95
 8    53 ms    51 ms    55 ms    google-public-dns-a.google.com [8.8.8.8]

Трассировка завершена.

C:\Users\DNS>
```

Первый протокол чата - IRC

```
@FloodBot3
AaronH
aaroncampbell
aba-
Ability
AccessExcess
acerunner_
achandrashekar
acid-trip
AcornAcorn
acuster
adante
adama
Ademan
Adlai
AdmCre
advenspirit
Adys
aegzor2
afabian
AfterDeath
agliodbs
Agraiaq
Ahadiel
AHA
aib
AJC_Zo
Ajedrez
ajonat
akv
Alan_M
alastor666
alastair1
albech
AlexMorr15
al...>
```

irc.freenode.net #ubuntu #FreeNode

(18:51:51) ** PorkSoda (n=AntiPop@unaffiliated/porksoda) has joined the channel **

(18:51:51) [codecaine]: <http://ubuntuforums.org/showthread.php?t=795952>

(18:51:52) [soundray]: neo_: sudo apt-get install jockey-gtk

(18:51:56) [m1dn1ght]: Jesus Christ - I've seen Prima Donnas with smaller attitudes than this guy.

(18:51:59) ** sifon187 (n=sifon187@cpe-065-184-037-241.ec.res.rr.com) has joined the channel **

(18:52:03) [codecaine]: neo they got it running

(18:52:13) [[KS]]: Hello everyone

(18:52:20) ** Ronnie_PC2 (n=Ronnie@ip5453f7ef.adsl-surfer.hetnet.nl) has joined the channel **

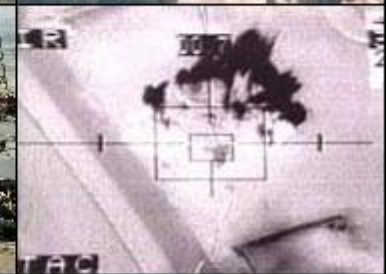
(18:52:24) [PorkSoda]: Any one have any proven lit on converting avi to 3gp or pocketpc/win mobiles format on linux?

(18:52:25) [Taza]: m1dn1ght: Well I've been fighting with a broken install for the last two hours after a stressful school week. You'd get an attitude with that time.

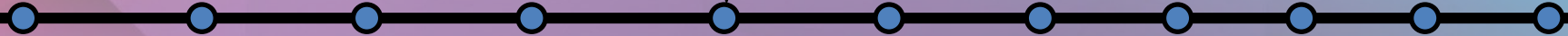
(18:52:32) ** Ronnie_PC2 has left the channel | **

(18:52:33) ** Spaisezor has quit | "bOrked Tube" **

Br*thers*ft

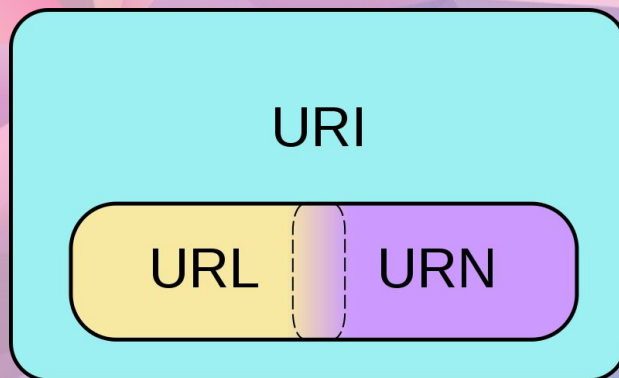


1988



Концепция WWW

- HTTP – протокол передачи гипертекста
- HTML – язык гипертекстовой разметки
- URI – уникальный идентификатор ресурсов

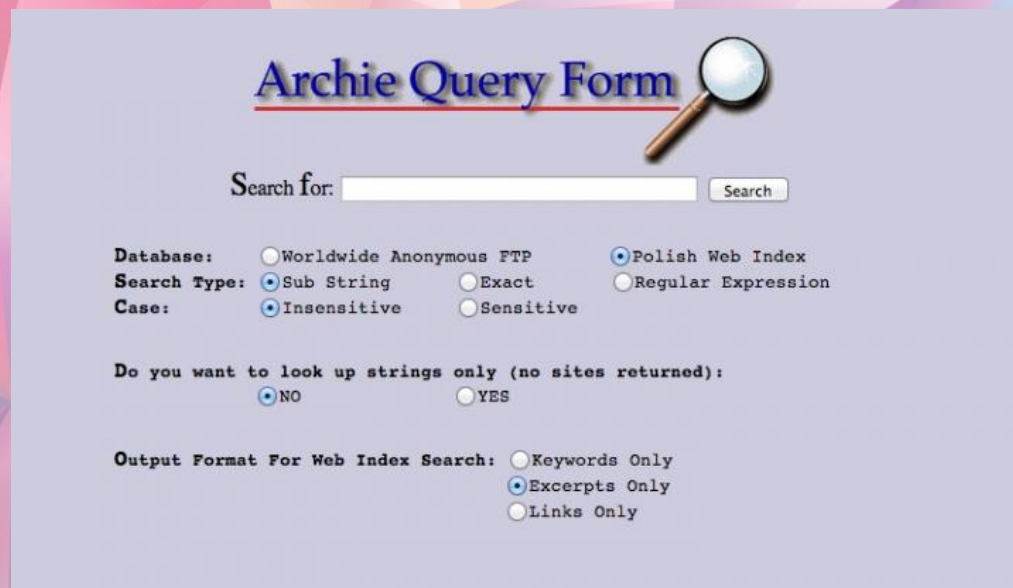


1989




Первая поисковая система Archie

Индексирование FTP - архивов
File transfer protocol



The screenshot shows the Archie Query Form interface. At the top, the text "Archie Query Form" is displayed in a blue serif font, with a magnifying glass icon to its right. Below this is a search input field labeled "Search for:" followed by a "Search" button. The form includes several radio button options for database selection, search type, case sensitivity, and output format. The "Polish Web Index" database is selected, along with "Sub String" search type and "Insensitive" case. The "Output Format For Web Index Search" is set to "Excerpts Only".

Archie Query Form 

Search for:

Database: Worldwide Anonymous FTP Polish Web Index

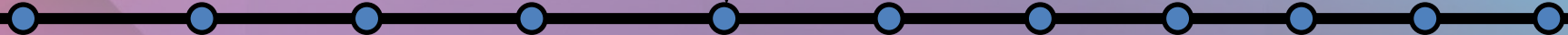
Search Type: Sub String Exact Regular Expression

Case: Insensitive Sensitive

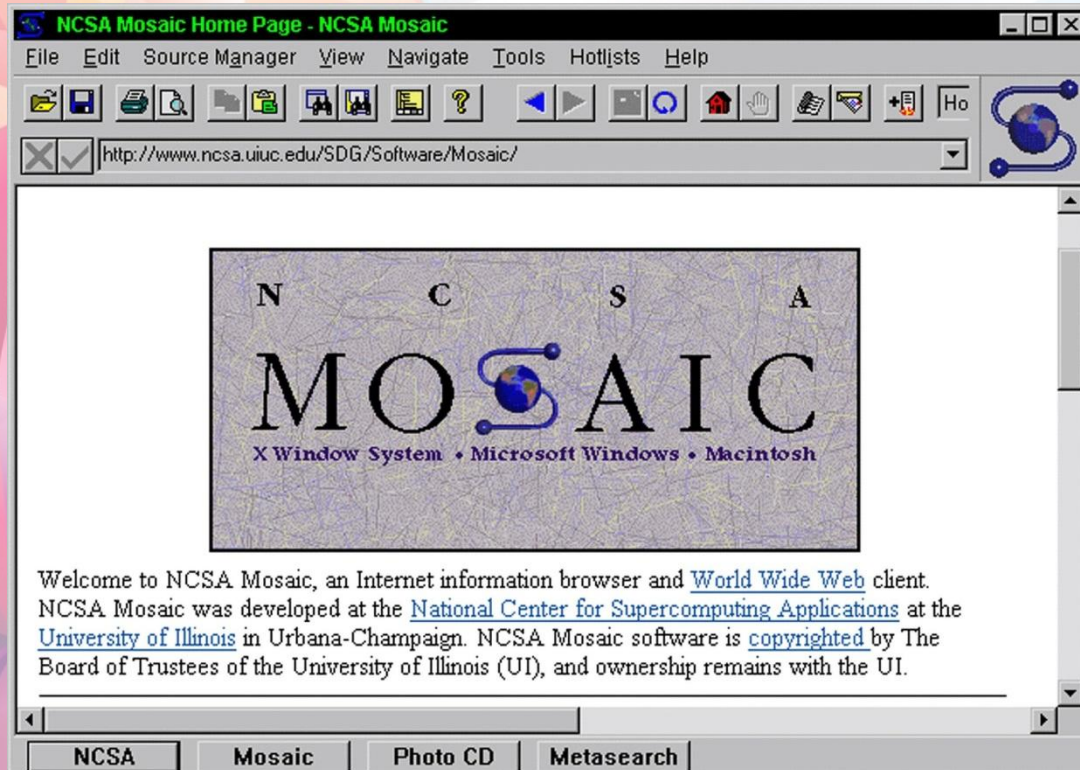
Do you want to look up strings only (no sites returned):
 NO YES

Output Format For Web Index Search: Keywords Only
 Excerpts Only
 Links Only

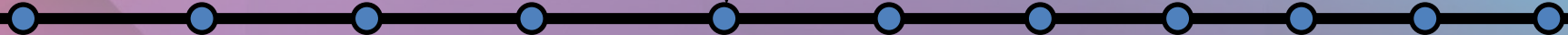
1990



Первый веб-браузер Mosaic



1993



Первые MMO RPG

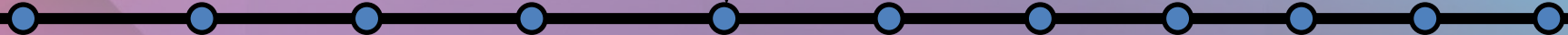


Meridian 59



Ultima Online

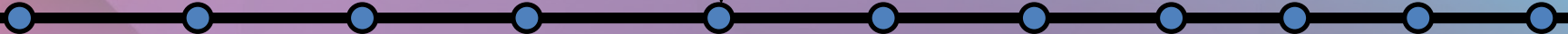
1996-1997



Google!



1998



Первый блог

BLOGGER™
AMPHETAMINES FOR YOUR WEBSITE

CREATE YOUR OWN BLOG!
Blogger offers you instant communication power by letting you post your thoughts to the web whenever the urge strikes. [Learn more about it.](#) Or: [Start Now!](#)

WHAT'S UP
Bye-bye, BotW. Hello, BoN. I've retired the **Blog of the Week** feature. At least for now. I've replaced it with something that will hopefully be both easier to maintain (as you may have noticed, "of the week" came to be somewhat of a misnomer) and more useful/interesting. Introducing: *Blogs of Note* (see the list under Recently Updated). Just a simple, ongoing, irregularly updated list of blogs I've happened to come across and found interesting for one reason or another. This reason need not be substantial. It could be I liked a particular post. It could be the blog seems to have good writing, or good design, or original content or concept, or I just like the name. Anyway, what I'm trying to say is don't read much into the editorial process. Just check 'em out. Or don't.
- Ev. [2/28/2001 05:47:04 PM] +

Part Two of **WriteTheWeb: The state of the blog** is up.
- Ev. [2/28/2001 04:59:00 PM] +

San Francisco Chronicle: **Bloggng On: Web loggers bare their souls -- and reading lists -- to the Internet.** Good article on Blogging on the cover of today's Datebook section. Cool. (BTW, the future of the company is much less uncertain than when I talked to that reporter. Things are looking good. Details coming soon.)
- Ev. [2/28/2001 12:45:27 PM] +

WriteTheWeb: The state of the blog. Part one of a three-part email interview I did recently on Blogger's (and blog's) past, present, and future.
- Ev. [2/26/2001 02:57:51 PM] +

The stickers are now swimming up stream to you like little salmon. Thanks a ton to **Josh, Randi, Tara, George, Eddie,** and Sondra for making it happen. You guys rock.

RECENTLY | **UPDATED** | **CREATED**
THE 10 MOST RECENTLY UPDATED BLOGS
5:21 PM [.mental masturbation.](#)
DJ Martian's Page
Digital Write-Down
Pussy Control
5:20 PM [/usr/bin/girl](#)
[wazzoo.org](#)
[\[welcomed solitude\]](#)
[Hit Escape](#)
[Running down a dream.](#)
[Baslow's Electric](#)
[OmniumGatherum](#)
[More Fresh Blogs >>>](#)

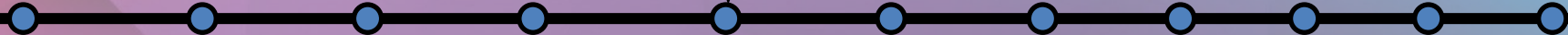
BLOGS OF NOTE
Feel like browsing? Here are some blogs we've noticed recently.
1.3.01 [Musings](#)
1.3.01 [GLISH.COM](#)
1.3.01 [The Magnificent Melting Object](#)
1.3.01 [Pocket PC eBooks Watch](#)
28.2.01 [Exploits of a Dwarf Lover](#)
28.2.01 [Komunitas MSN Indonesia](#)
28.2.01 [MedicalPocketPC](#)
28.2.01 [Weblogging Considered Harmful](#)
28.2.01 [Dot Net Dan's .NET Discussion](#)

SIGN IN
If you have a Blogger account, please sign in.
username
password
 Remember me [?]

[Forgot your password?](#)

SIGN UP
If you don't have a Blogger account, sign up!
username
password
confirm
password

1999



Первая соцсеть MySpace

The screenshot shows the MySpace homepage with a blue header. The logo reads "myspace.com a place for friends". Navigation links include "Web", "MySpace", "People", "Music", "Music Videos", and "Blogs". A search bar is powered by Google. A secondary navigation bar lists "Home", "Browse", "Search", "Invite", "Film", "Mail", "Blog", "Favorites", "Forum", "Groups", "Events", "Videos", "Music", "Comedy", and "Classifieds".

Cool New Videos (39,875 uploaded today!)

- Runaway Truck (Jason)
- Ski Lift (Rhianna)
- Russian Street Climbing (Pasha)
- Snow Kayaking (Schmeddy)

Member Login

E-Mail:
Password:
 Remember Me
[LOGIN] [SIGN UP!]
[Forgot your password?](#)

Cool New People

- Leigh
- Leslie
- Shannon

MySpace Music [more music]

Lil Scrappy
Rap / Hip Hop / Crunk
Atlanta, Georgia

"King Of Crunk" Lil Jon hosts "Prince Of The South" Lil Scrappy's HIGHLY ANTICIPATED album, *Bred 2 Die Born 2 Live* exclusively on Myspace. Listen to the full album before it hits stores December 5th.
→ Listen Now

Videos [more videos]

Love Corner

Love Corner is a short that we are working on for our sketch comedy TV pilot. It will be re-edited most likely.

2003

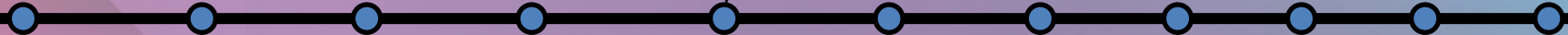


Дальнейшее развитие

- Facebook – 2004
- Youtube – 2005
- Vkontakte - 2006



2004-2006



Дополнительное задание

- Зарегистрируйтесь на <http://игра-интернет.рф>
- Перейдите на http://игра-интернет.рф/game_list/
- Пройдите «Интернет – глобальная сеть»



Интернет - глобальная
сеть

100
БАЛЛОВ

160
БАЛЛОВ

300
БАЛЛОВ

400
БАЛЛОВ

500
БАЛЛОВ

97%



Спасибо за внимание