History of Internet development, Defining features of Internet and the Relationship to other networks and concepts
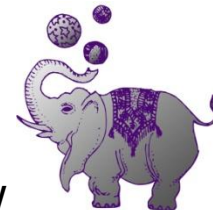
Jon Bing

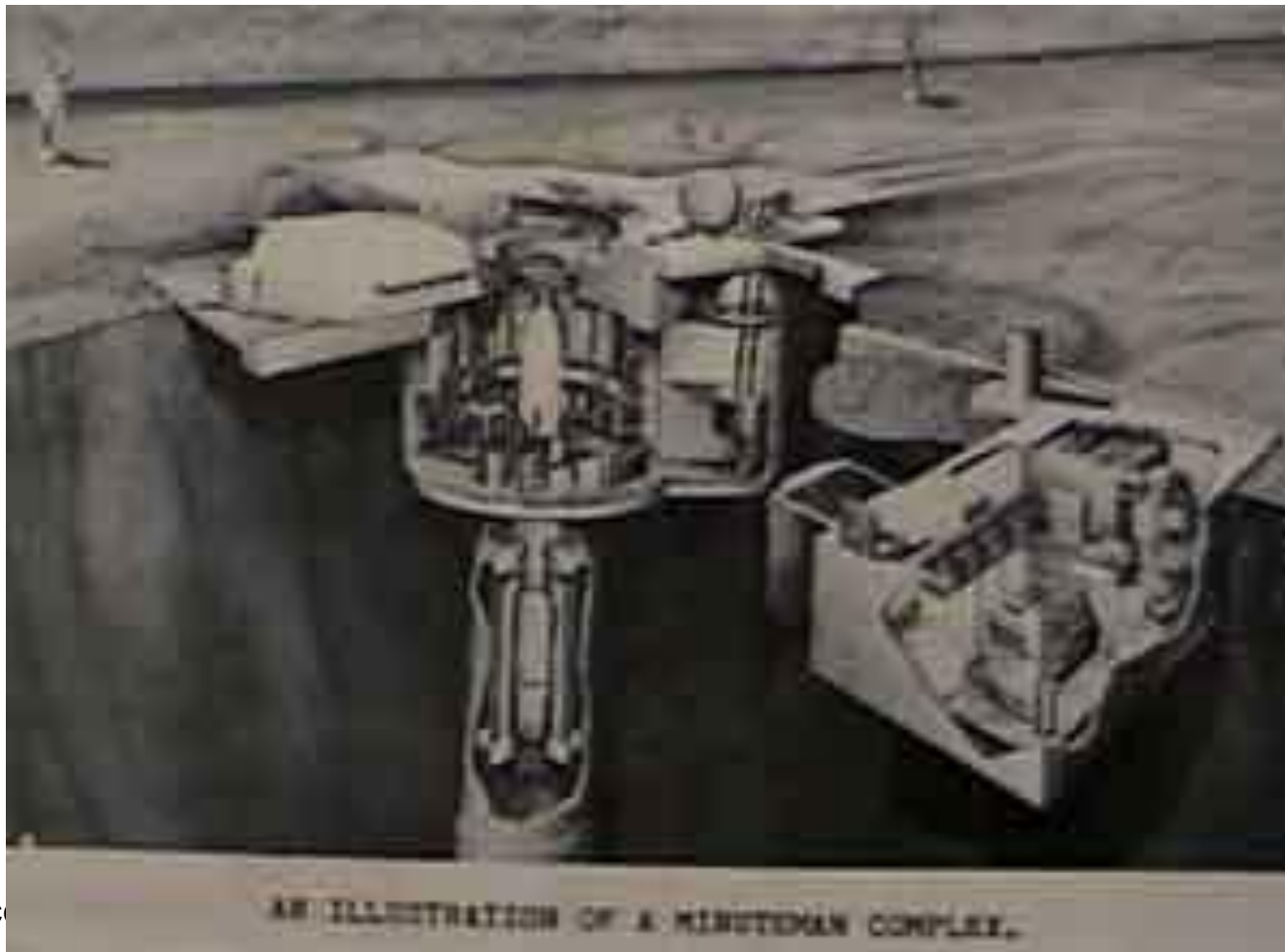Norwegian Research Center for Computers and Law

Master Program in Law and Information Telecommunications Law

Internet Governance Law

31 August 2012

Minuteman missile site

AN ILLUSTRATION OF A MINUTEMAN COMPLEX.

Minuteman missile

Paul Baran

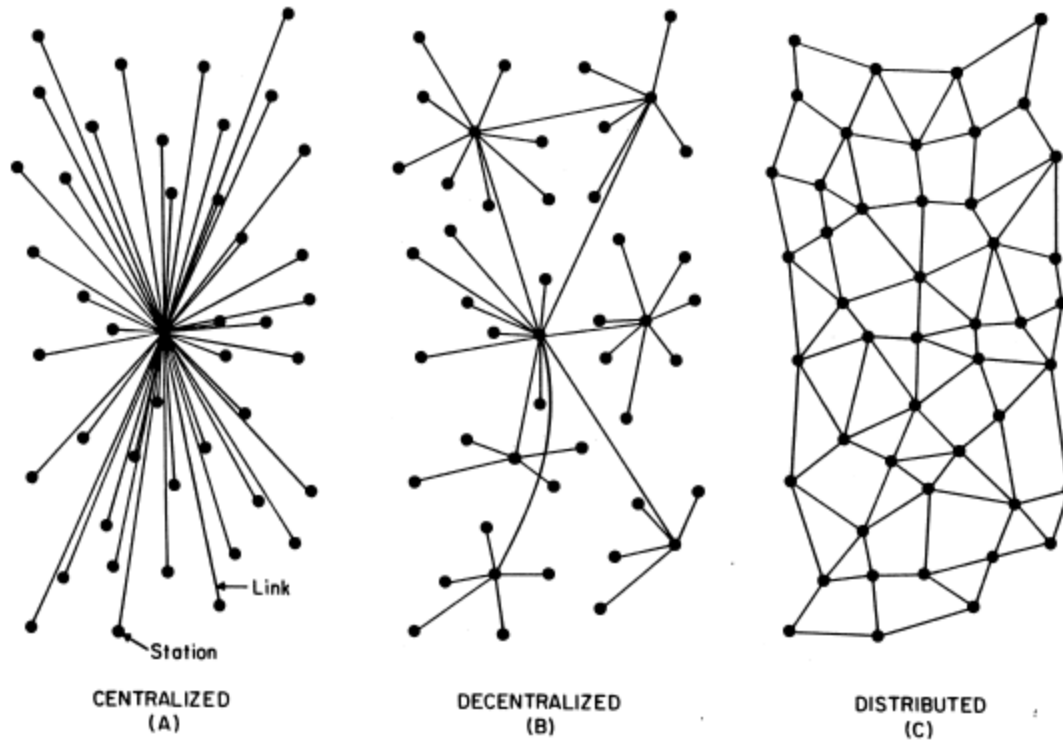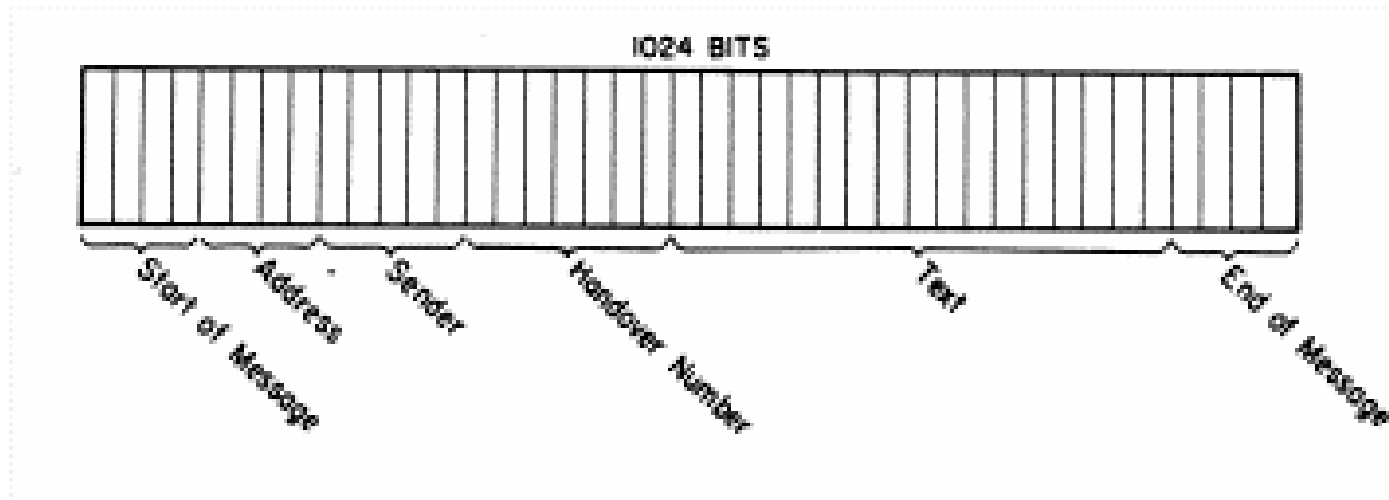# Paul Baran – network structures

FIG. I — Centralized, Decentralized and Distributed Networks
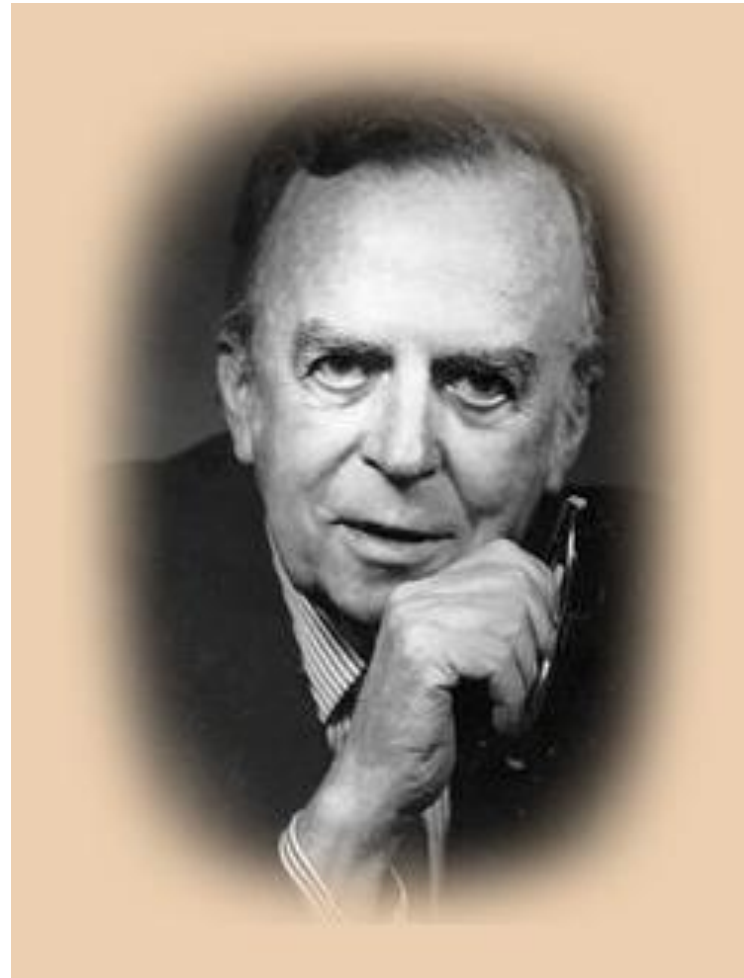
Paul Baran – the "packet"

Neal McElroy

Wherner von Braun
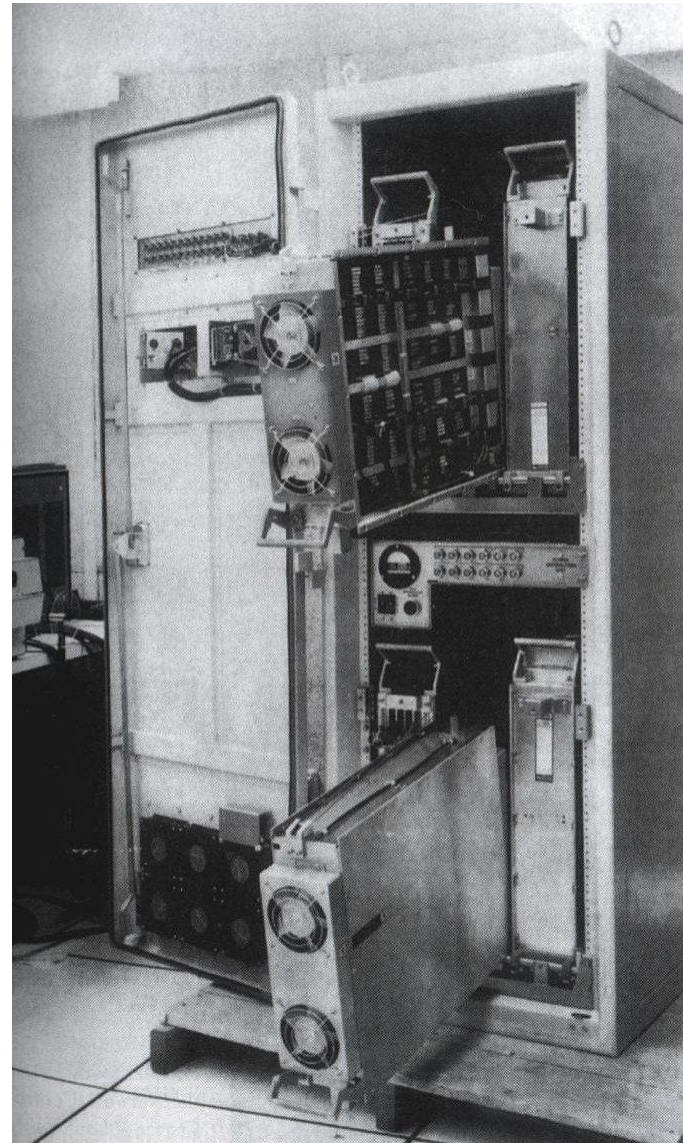
JCR Licklider

Interface Message Processor

First RFC

```
Network Working Group                          Steve Crocker
Request for Comments: 1                                 UCLA
                                                7 April 1969


                    Title: Host Software
                    Author:   Steve Crocker
                       Installation:    UCLA
                    Date:    7 April 1969
         Network Working Group Request for Comment:    1
```
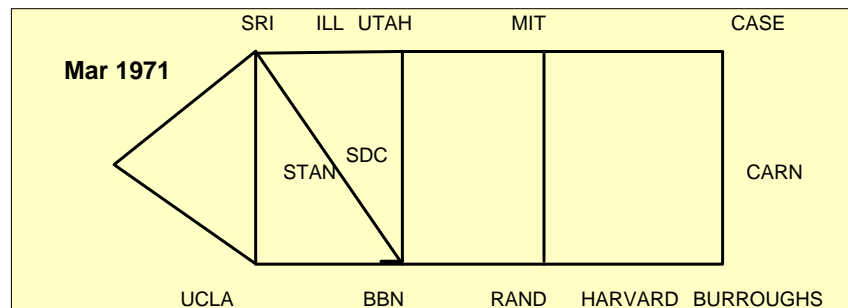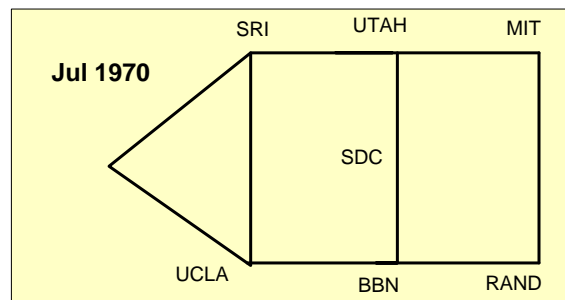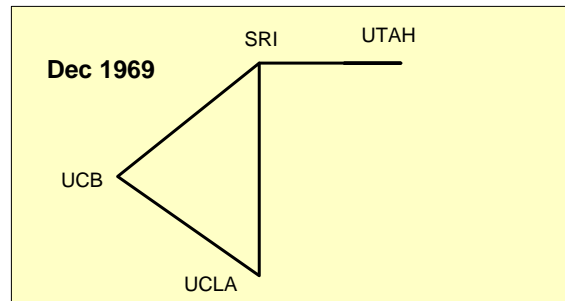
Steve Crocker today – member of the ICANN board of governors

Internet – September 1969 – March 1971

Vinton G Cerf

- Cerf og Kahn – TCP-IP 1973.1974

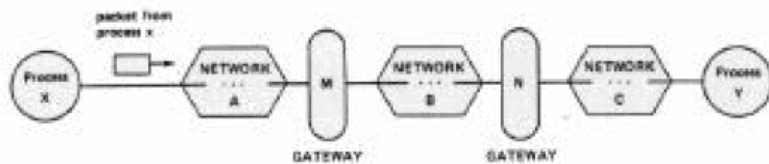Fig. 2. Three networks interconnected by two GATEWAYS.

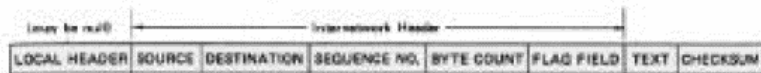| LOCAL HEADER | SOURCE | DESTINATION | SEQUENCE NO. | BYTE COUNT | FLAG FIELD | TEXT | CHECKSUM |

Fig. 3. Internetwork packet format (fields not shown to scale).
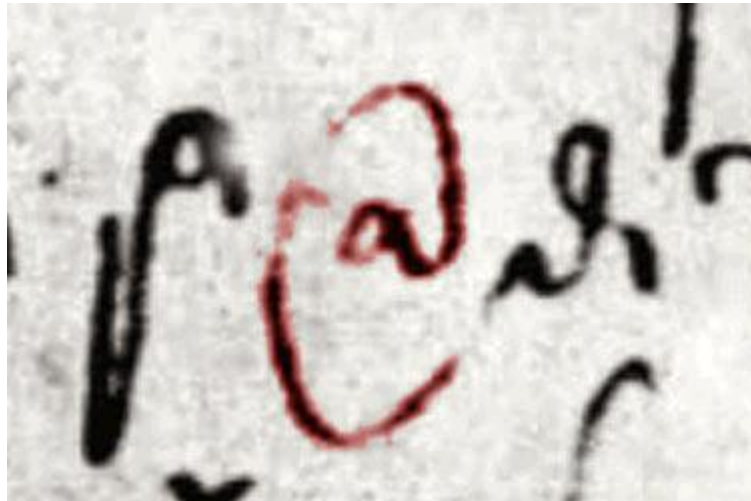
Ray Tomlinson

@ by Fransesco Lapi 1536

An amphora - the original @

AMFORA

TCP/IP – The Internet Protocol – Jon Postel

IP address format

The format of an IP address is a 32-bit numeric address written as four numbers separated by periods.
Each number can be zero to 255.
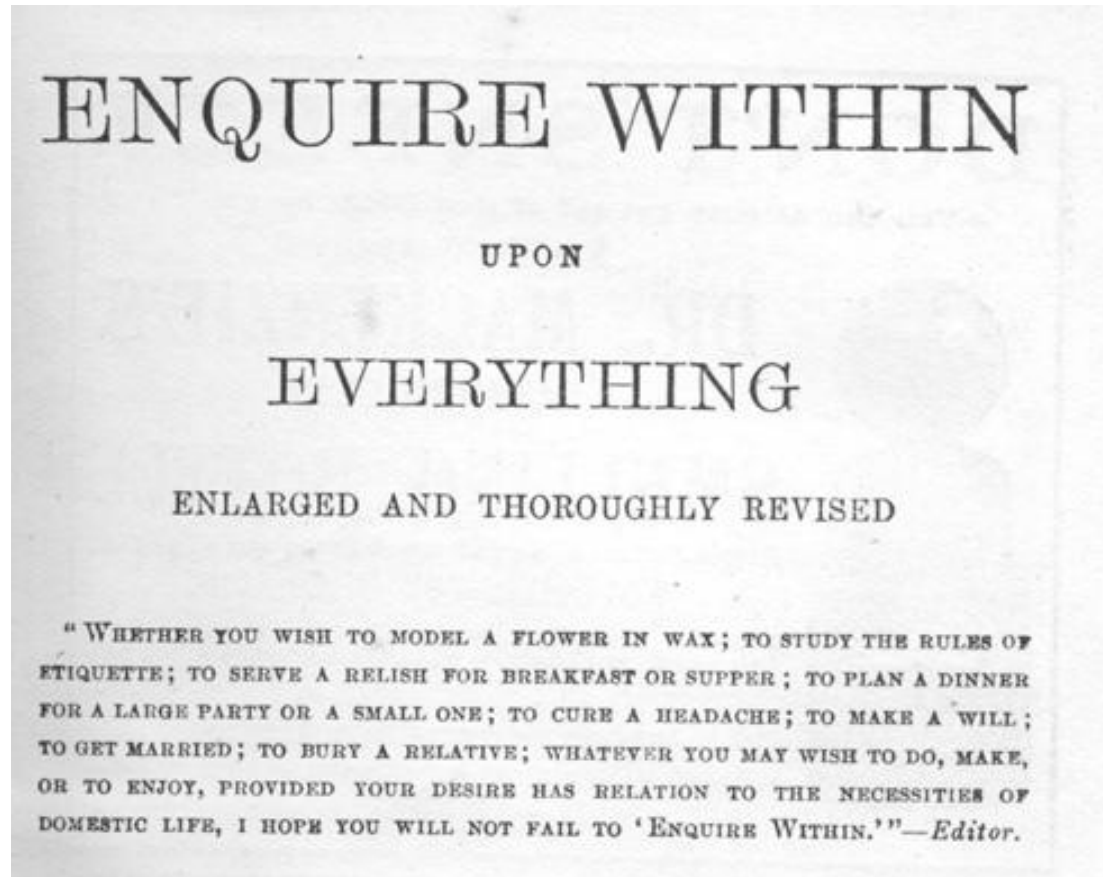For example

1.160.10.240

could be an IP address.

Tim Berners-Lee

Enquire within upon everything

ENQUIRE WITHIN

UPON

EVERYTHING

ENLARGED AND THOROUGHLY REVISED

" WHETHER YOU WISH TO MODEL A FLOWER IN WAX; TO STUDY THE RULES OF ETIQUETTE; TO SERVE A RELISH FOR BREAKFAST OR SUPPER; TO PLAN A DINNER FOR A LARGE PARTY OR A SMALL ONE; TO CURE A HEADACHE; TO MAKE A WILL; TO GET MARRIED; TO BURY A RELATIVE; WHATEVER YOU MAY WISH TO DO, MAKE, OR TO ENJOY, PROVIDED YOUR DESIRE HAS RELATION TO THE NECESSITIES OF DOMESTIC LIFE, I HOPE YOU WILL NOT FAIL TO 'ENQUIRE WITHIN.'"—*Editor.*

Sign-on Inquire-within-upon-everything (ca 1980)

At SINTRAN III command level, type

@(GUEST)ENQUIRE <params>
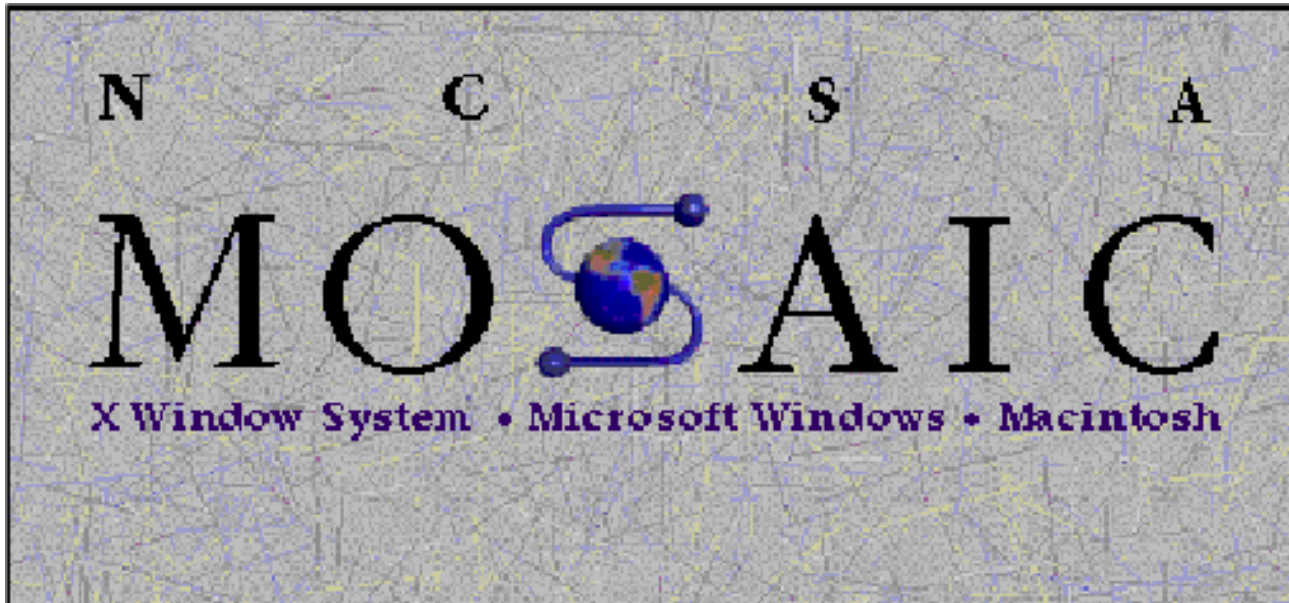
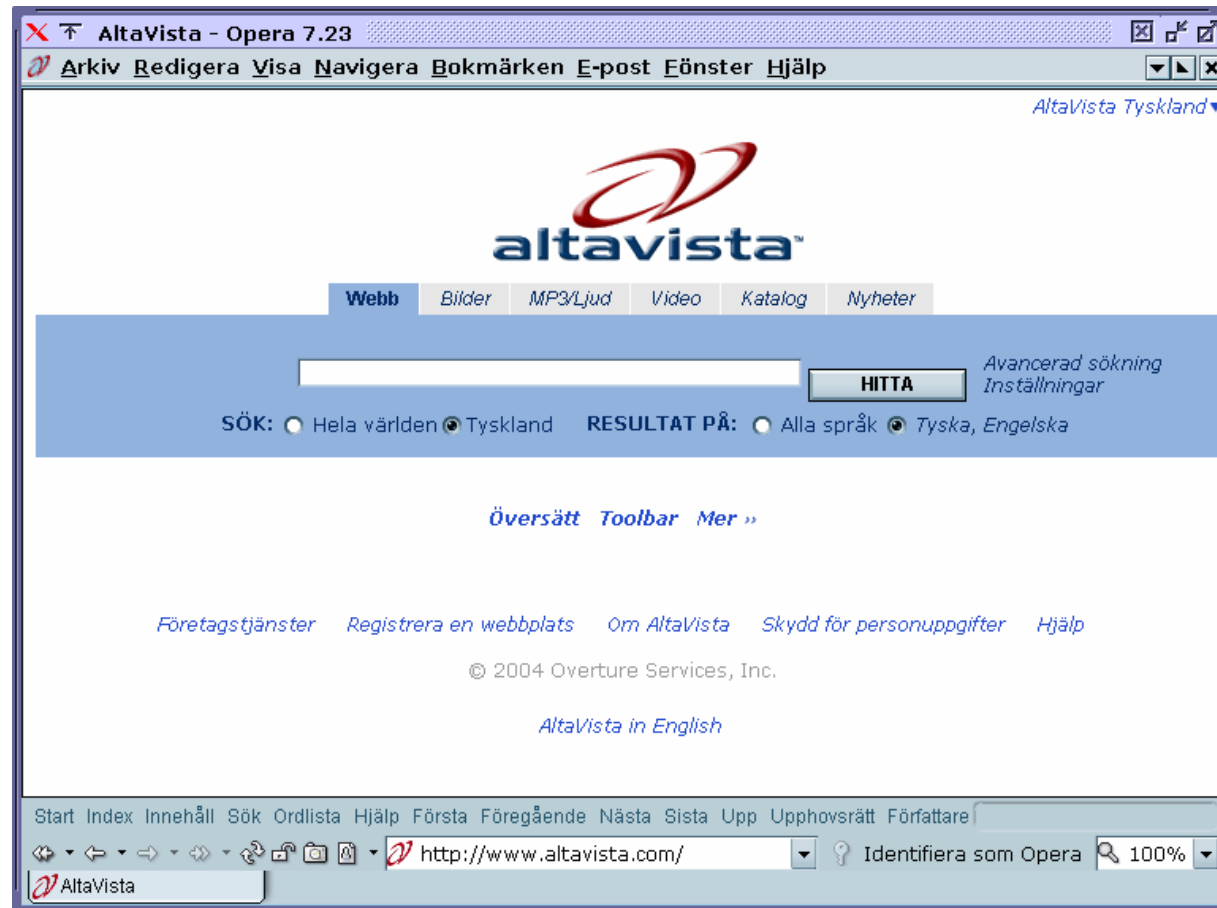and the system should respond

Enquire V x.x

Hello!

Marc Andreessen

Marc Andreessen MOSAIC March 1993

Altavista 1995

Facebook

YouTube

Twitter

Instagram is a free service for sharing photos and a soial network launched October 2010