

# 1 Beginnings of the Internet

See Hobbes' Internet Timeline [\(URL:http://www.zakon.org/robert/internet/timeline/\)](http://www.zakon.org/robert/internet/timeline/)

## 2 Early Days

**1968** Englebart's demo of the first hypertext system

- See poor quality video at  [\(URL:http://sloan.stanford.edu/mousesite/1968Demo.html\)](http://sloan.stanford.edu/mousesite/1968Demo.html)
- The black and white film is much better
- Until about two years ago that system did things that no web browser could!

**1969** ARPANET is live

**User Population** A network for scientists

**Apps** File sharing, limited discussion

## 3 Later, but before the WWW

**Size** Exponential growth of sites and user numbers continues

**Users** Not just scientists but still mostly Universities and Technology Companies

**Apps** Discussion has moved beyond e-mail

- But e-mail is still the killer app
- Thousands of mailing lists

**More Apps**

- relay chats, newsgroups, something like instant messaging
- FTP

**Spam** Brad Templeton claims first spam came from a DEC marketroid

## 4 Late 1980s/Early 1990s

**Size** Exponential growth continues

**Users** Spreading to middle-class populations of industrialized countries

- Those who pay for access (viz. not students or employees) often pay per packet
- Many dial-up lines

**Apps**

- E-mail is still killer app
  - Thousands of mailing lists
  - Usenet (newsgroups) are huge
  - Internet relay chat
- ▷ every app had its own interface

**Search Engines** Archie revolutionizes FTP use

**Spam** B1FF and Canter & Siegel (knock Oz off 'net)

### 4.1 'When It All Changed'

- gopher and the information superhighway
  - a view of the Internet as for 'good & proper' purposes
    - \* no games or porn
    - \* no real notion of e-commerce
    - \* great resistance to commercial use of Usenet
  - one interface to rule them all
    - \* **gopher** has a menu structure
    - \* easier to use (recognition rather than recall)
    - \* hides much of the underlying complexity
    - \* learn only one interface for everything
  - **Search Engines**: Jughead and Veronica (for gopher)

### 4.2 A New View Of Commercial Content

1991: WWW announced (by TBL, on `alt.hypertext` etc.) from CERN

Only interested customers pay for access

The WWW extended the single UI concept

22 April 1993: NCSA releases Mosaic

- first publically available graphical browser