# Applications: e-mail & the Web

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## E-mail

- the e-mail address
  - string@DNSNAME
- message body format
  - RFC822
  - MIME - Multipurpose Internet Mail Extensions
- typical e-mail setup
- mail procedure

## Protocols

- SMTP - Simple Mail Transfer Protocol
  - commands: HELO, MAIL, RCPT, DATA, RSET, NOOP, QUIT, HELP, VRFY, EXPN
  - session
  - ESMTP: Extended SMTP
- POP - Post Office Protocol
  - commands: STAT, LIST, RETR, TOP
  - session

## The Web

- client-server architecture
- HTTP - Hypertext Transfer Protocol
  - protocol overview
  - methods: GET, HEAD, POST
- HTTP and TCP

## References

- RFC822 - Internet text messages
- RFC821 - SMTP
  - RFC1652 (8 Bit Data), RFC1830 (Chunking), RFC1854 (Pipelining)
- RFC1938 - POP
- RFC1945 - HTTP
- http://sunsite.unc.edu/mdma-release/http-prob.html
- http://www.isi.edu/lsam/publications/http-perf/
- RFC1521/1522 - MIME