

**Harvard University**  
**CSCI S-40, Communication Protocols and Internet Architectures**

**Reading Assignment for Lecture 4**

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- In the course textbook Internetworking with TCP/IP Volume One - 6th Edition
  - \* Read chapter 5
  - \* Read chapter 6, skip section 6.18
  - \* Read chapter 7, sections 7.1 – 7.9
- Read RFC 791 (skim the material on the header options, pages 15 through 22.)
- Read sections 1, 2, 3 and 4 of RFC 4632. (This is also BCP 122.)  
Also review the Errata to this RFC and note the type of information that is included in an Errata. You can find Errata at [https://www.rfc-editor.org/errata\\_search.php?rfc=4632](https://www.rfc-editor.org/errata_search.php?rfc=4632)
- Read the following paper for information on IP addressing and CIDR.  
[http://www.cisco.com/en/US/tech/tk365/technologies\\_tech\\_note09186a00800a67f5.shtml](http://www.cisco.com/en/US/tech/tk365/technologies_tech_note09186a00800a67f5.shtml)  
**Skip the material** on Variable Length Subnet Masks (VLSM) and Cisco specific configuration information.
- Read this short article on the 25th anniversary of TCP/IP.  
<http://www.isoc.org/standards/tcpip25years/>
- Read this very important historical paper by David Clark at MIT on the design of IP called, “The Design Philosophy of the DARPA Internet Protocols,” from ACM 1988  
The paper is available at:  
<http://ccr.sigcomm.org/archive/1995/jan95/ccr-9501-clark.pdf>
- Optional: The Internet Society (sometimes referred to as [isoc.org](http://www.isoc.org) ) is an organization that focuses on Internet policy, governance, access, and education. Everyone can join the Internet Society and membership is free. The link is:  
<https://www.internetsociety.org/>  
This page brings together a wealth of information on the history of the Internet.  
<https://www.internetsociety.org/internet/history-internet/>  
This page brings together a wealth of information on the current Internet, including worldwide Internet statistics, user demographics, economic analysis, etc.  
<https://www.internetsociety.org/internet/#facts>