

- **Compulsory literature for section 2**

**Computer Networks, packet vs. circuit switching**

- Video: *Networking, basic concepts and terminology* at <https://play.dsv.su.se/hypercaster/8631/width=640/height=360/link.js>
- Text: *Networks and the Internet*, Sections 1 to 8 (pp. 1-7) as a file in section 2
- Video: *Ethernet, basic concepts and terminology* at <https://play.dsv.su.se/hypercaster/8633/width=640/height=360/link.js>
- <https://play.dsv.su.se/hypercaster/8633/width=640/height=360/link.js>
- Video: *How to setup a small LAN* at [http://www.youtube.com/watch?v=\\_u3hNRZWMcc](http://www.youtube.com/watch?v=_u3hNRZWMcc)
- Video: *Ethernet, part I* at [http://www.youtube.com/watch?v=X-yb5zr\\_WTc](http://www.youtube.com/watch?v=X-yb5zr_WTc)
- *Circuit and packet switching, basic concepts* at <https://play.dsv.su.se/hypercaster/8738/width=640/height=360/link.js>

**The Internet, TCP/IP protocol suite**

- Video: *Internet protocol, basic concepts and terminology* at <https://play.dsv.su.se/hypercaster/8736/width=640/height=360/link.js>
- Text: *Networks and the Internet*, Sections 9 to 19 (pp. 7-17) at <https://ilearn2.dsv.su.se/mod/resource/view.php?id=6082>
- Animation: *History of the Internet* at <http://www.youtube.com/watch?v=9hIQjrMHTv4> (short) or video with the inventors of the Internet being the main actors at <http://www.youtube.com/watch?v=MdMo5k-f1aw> (long)
- Text: *The past and the future history of the Internet* at <http://ccrg.soe.ucsc.edu/CMPE252A/FALL2012/PAPERS/history1.pdf>
- Text: *A concise guide to the major Internet bodies* by Simonelis at <http://ubiquity.acm.org/article.cfm?id=1071915>
- Video: *What does ICANN do?* at [http://dougvitale.wordpress.com/2013/06/03/important-tech-organizations-it-pros-should-be-familiar-with/?goback=.gde\\_1430\\_member\\_250243732](http://dougvitale.wordpress.com/2013/06/03/important-tech-organizations-it-pros-should-be-familiar-with/?goback=.gde_1430_member_250243732)
- Video: Ericsson's movie *The Dawn of the Net* at <http://www.youtube.com/watch?v=eeS4brbDVuU>

- Text: *Primer on latency and bandwidth*, Chapter 1 from O'Reilly book at <http://chimera.labs.oreilly.com/books/1230000000545/ch02.html>
- Video: *Traceroute* at <http://www.caida.org/publications/animations/>
- Video: *Domain Name System* at <http://www.youtube.com/watch?v=oN7ripK5uGM>

### Access, Peering and IEX

- Text: *Internet exchange points* at [www.isoc.org/educpillar/resources/docs/promote-ixp-guide.pdf](http://www.isoc.org/educpillar/resources/docs/promote-ixp-guide.pdf)
- Video: *Benefits of Internet Exchange points* at <http://www.youtube.com/watch?v=TKNQ1lggUM8>

### ● Additional literature for section 2

- Text: *Short introduction to computer networks* at <http://heather.cs.ucdavis.edu/~matloff/Networks/Intro/NetIntro.pdf>
- Video: *Lecture on network media* at [http://www.youtube.com/watch?v=D\\_e\\_dj02Hol](http://www.youtube.com/watch?v=D_e_dj02Hol)
- Video: *Operation of plain telephone system* at <http://www.youtube.com/watch?v=Tahfluke6cU>
- Video: *Protocol stacks* at <http://www.youtube.com/watch?v=zyL1Fud1Z1c>
- Video: *Routing and routing protocols, autonomous systems* at <http://www.youtube.com/watch?v=RbY8Hb6abbg>
- Video: *How DNS operates?* at <http://www.youtube.com/watch?v=2ZUxoi7YNgs>
- Text: *Internet Exchange Points* at [http://intgovforum.org/Substantive\\_1st\\_IGF/IXP%20Paper.pdf](http://intgovforum.org/Substantive_1st_IGF/IXP%20Paper.pdf)
- Text: *Overview of the problems related to the Internet* at <http://www.ijric.org/volumes/Vol5/6Vol5.pdf>
- Animation: *Network visualisations* at <http://www.caida.org/publications/animations/#netviz>