Computers and Networks

COMP 102, lecture 11
A Typical Computer

- Input devices
- Output devices
- Control unit
- Arithmetic logic unit
- Memory
- External storage

CPU
Input/Output Device: Ethernet Interface
A typical Network
Typical Internet Settings

MCGILL:

Services:

Integrated Ethernet:
  Type: Ethernet
  Name of peripheral BSD: en0
  Physical Address (MAC): 00:1B:63:92:4F:93

AirPort:
  Type: IEEE80211
  Name of peripheral BSD: en1
  Physical Address (MAC): 00:1B:63:C4:08:4E
Hexadecimal notation

- byte = 2 hexadecimals
- 1 hexadecimal = 4 bits
- Hexadecimal ∈ \{0,1,2,3,4,5,6,7,8,9,A,B,C,D,E,F\}
- A=10, B=11, C=12, D=13, E=14, F=15
- example:
  
  \[
  \begin{array}{ccccccccc}
  0 & 0 & : & 1 & B & : & 6 & 3 & : & 9 & 2 & : & 4 & F & : & 9 & 3 \\
  0000 & 0000 & 0001 & 1011 & 0110 & 0011 & 1001 & 0010 & 0100 & 1111 & 1001 & 0011
  \end{array}
  \]
History of the Internet

By Abbi & Cassie
History of the Internet

THE INTERNET

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[Logos of Hotmail, eBay, Facebook, Google, and YouTube]
History of the Internet

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