computer.

wireless ~ Network interface card.
   WNIC   (NIC)   (UTP).
                              unshielded twisted pair cable &

                     cable <
Radio   optical fiber cable.

Frequency
          switch
Signal

Internet.

internet => communications infrastructure
          * supports all application layer protocols.
                                        (http, ftp)
web => a subset of internet.

          * consists of sites and uses a browser

IP address = 198.103.238 <= 32 bits, 4.3 billion,
                              which ran out in 2004.

IPv6 <= 128 bits, 6 sets of numbers.

          xx : xx : xx : xxx : xxx : xxx

DNS : URL => IP

     www.xxx.com => _._._._._._