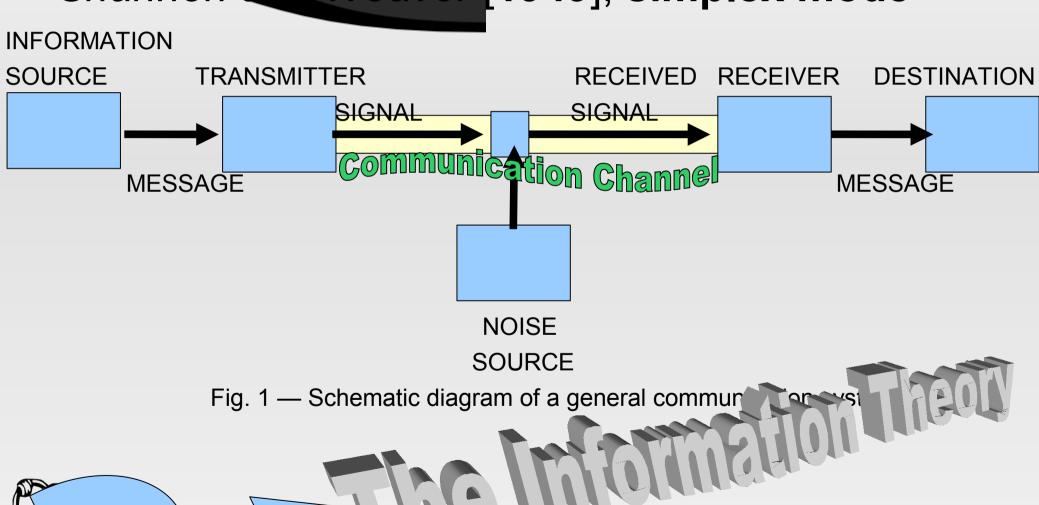


Communication Model Shannon Weaver [1949], simplex mode INFORMATION SOURCE TRANSMITTER RECEIVED RECEIVER DESTINATION SIGNAL SIGNAL



The MQDEs of Communication

Shannon od Weaver [1949], simplex mode

SOURCE TRANSMITTER RECEIVED RECEIVER DESTINATION

SIGNAL SIGNAL

MESSAGE

NOISE

SOURCE

SOURCE

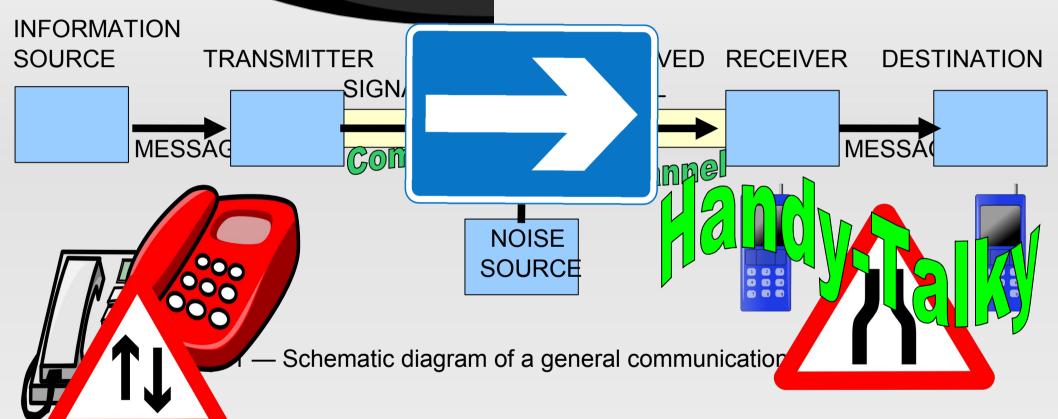
Fig. 1 — Schematic diagram of a general communication system.

The MODEs of Communication:

- The SIMPLEX MODE (the model above)
- The DUPLEX MODE: Full Duplex and Half Duplex

The MQDEs of Communication

Shannes and Weaver [1949], simplex mode



FULL-DUPLEX (two SIMPLEXs)

HALF-DUPLEX (two SIMPLEXs, one at the time)



SINGLE-SOURCE SINGLE-DESTINATION

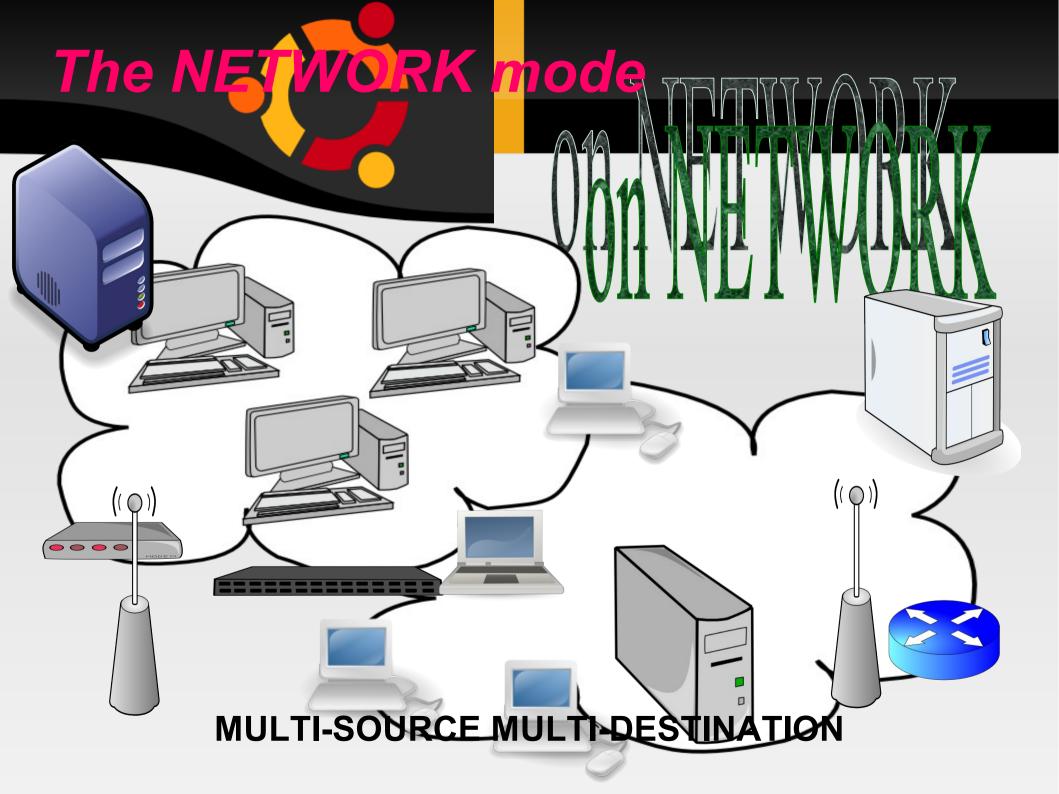
The MQDEs of Communication

not a simplex mode not a full-duplex not a half-duplex, but the NETWORK!





MULTI-SOURCE MULTI-DESTINATION





The INTERNET

- Read :
 - http://en.wikipedia.org/wiki/History_of_the_Internet
- A "non-hierarchical" organization
- Members: Computers and the Accessories
- "Permanent" and "Temporary" members
- Every single member has its "IP address" (IP = Internet Protocol):
 - Version 4: 000.000.000.000 to 255.255.255.255, "local" and "public" IP
 - Ipv6 (version 6)

The INTERNET member.....

- Every single member of the Internet has its specific function:
 - servers: mail-server, file-server, webserver, list-server, Domain-Name Server (DNS), dll......
 - routers: the traffic controllers
 - bridges: connecting networks
 - terminal, client
 - etc.

Packet Pata Communication

- Using a computation protocol: TCP/IP
- Communication by sending and receiving DATA PACKETS
- Each DATA PACKET has its CONTENTS and its "WRAPPER", its SENDER's and its DESTINATION/RECEIVER's Address









