

## L3: Network Classification



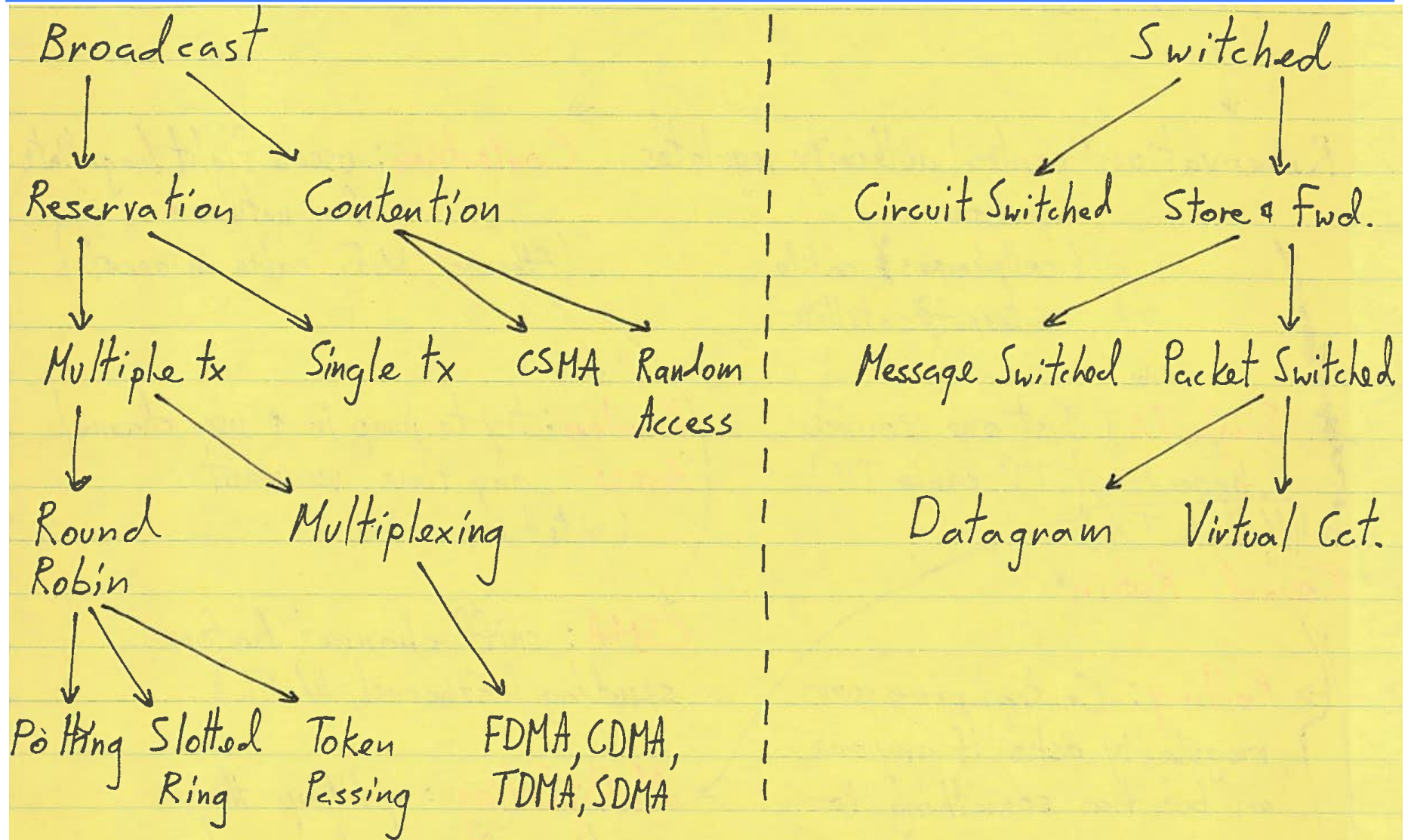
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# Outline

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- Overview of Network Types
  - broadcast, switching and their sub-categories
- Service Types
  - connection-oriented, connectionless
- Network Topologies
  - Broadcast and Switched

# 3.1 Classification



## 3.2 Broadcast

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- Reservation
  - cellular
- Contention
  - WiFi, Ethernet

## 3.3 Switched

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- Store-and-Forward/Cut-Through Switching
  - A couple of general techniques
- And two general types
  - Message switching
  - Packet switching

## 3.4 Packet Switching

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- Datagram Network
- Virtual Circuit Network

## 3.5 Connection Service

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- Connection-Oriented
- Connectionless

## 3.6 Broadcast Network Topologies

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- Bus, Passive Ring, Active Ring



## 3.7 Switched Network Topologies

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- Start/Hub, Tree, Mesh

## 3.8 Size Classification

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- LAN, MAN, WAN