















Design Choices for Multicast Routing

- Addressing how the mulitcast destinations (receivers) are to be indicated?
 - List approach not scalable
 - Group approach no control; who maintains the group??
- Routing protocol
 - Re-use the unicast routing infrastructure?
 - Desirable. But is it too constraining?

Multicast on the Internet (IP Multicast)

- Concept of multicast group
 - Set of nodes wishing to listen to a particular "connection."
 - Sender(s) need not be group member(s). Sender does not know group members.
 - Each group has a "group address."
 - Nodes may join/leave group at will. Group size unrestricted.

Multicast addressing

- Packets sent to a group address, not to individual node address.
- Group address is a valid IP address.
- A router will multicast the packet on a LAN (link-layer multicast) if there is a host on the LAN that is a member of the destination group.



































- => DVMRP not good for
 - Scattered group membership.
 - Large no, of sources / groups.