NEIGHBOR DISCOVERY
New Function in ICMP

- It substitutes ARP
- Based on multicast
- Most likely only one station gets involved
Solicited Node Multicast Address

- Subscribed by all hosts
- FF02::1:FF/104 | 24 least significant bits of IP address
- Likely 1 host per group
IPv6 Multicast Transmission

- Based on MAC multicast
- IPv2 multicast address mapped to MAC address
- 33-33 | 4 least significant bytes of IPv6 address
Address Resolution

→ ICMP Neighbor Solicitation
   → To solicited node multicast address of target IPv6 address

→ ICMP Neighbor Advertisement
   → To requester address
Host Cache

- Mapping between IPv6 and MAC address
- Similar to ARP cache