



# **SY110**

## **Networking – Wireless**

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- 1 Wireless
- 2 Wireless - Other



- What layers are affected if we use wireless vs wired?
  - ▶ Physical layer
  - ▶ Link Layer
  - ▶ Nothing else, makes sense though right?
    - ★ We have to use a different type of frame header for wireless vs wired (Ethernet vs 802.11)



## Let's learn some fancy WiFi words

- 802.11 standards (a, b, g, n, ac) – dictate data rates, implementations, frequency bands, etc.
- Stations – Any host with a WiFi NIC/radio that can communicate on 802.11
- 802.11 MAC address – Exactly the same as a wired/Ethernet MAC address, just associated to the WiFi NIC
- AP or WAP - An Access Point or Wireless AP is the Router/Switch of the local WiFi network
  - ▶ Not a hub like situation.... Ignore the notes...
- SSID – The name of the WiFi network
  - ▶ ESSID – Only used in ESS networks (Let's discuss what this means)
- BSSID the MAC address of the WAP



- Wireless Range... (ESS)
- Encryption – Why is this so important compared to Ethernet/Wired
  - ▶ WEP < WPA < WPA2
- Network Configuration and WiFi comms re-hash



Questions?