



City of Bayswater

Wireless Internet

In and Around your Home



What is WiFi?

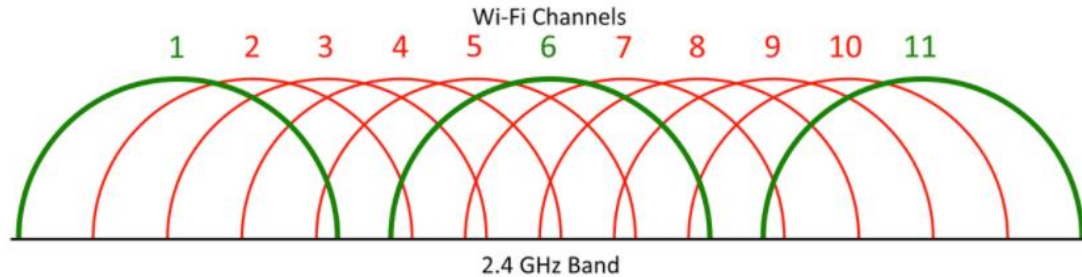


- ▶ A technology that allows computers, smartphones and other devices to be interconnected without wires to communicate over a local network and the internet
- ▶ There are a number of standards based on the IEEE 802.11 including a,b,g,n

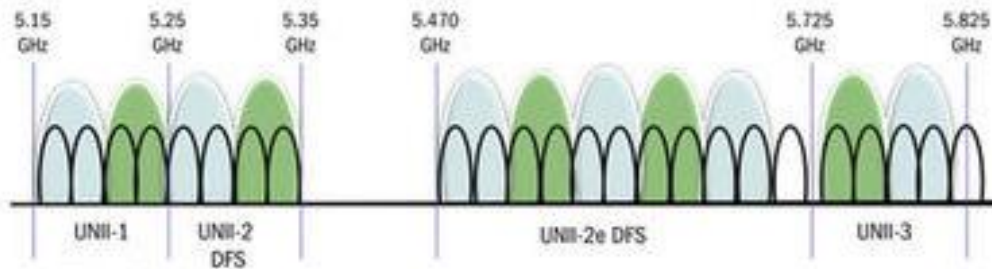


Radio Frequencies and Channels

- ▶ Frequencies include 2.4GHz and 5GHz



The Wi-Fi Spectrum: 5GHz



Where is Wifi Found?

- ▶ A wireless connection point is often called a hotspot
- ▶ The range of hotspots can vary from a small room to many kilometres
- ▶ Hotspots generally provide access to the local network and the Internet



Wifi Hotspots



- ▶ Hotspots are available in many areas around the world including:
- ▶ Coffee Shops
- ▶ Restaurants
- ▶ Hotels
- ▶ City Centres
- ▶ Shopping Centres
- ▶ Libraries
- ▶ Schools
- ▶ Internet Cafes
- ▶ ...and more



Wifi from Mobile Phones

- ▶ Most modern phones provide access to the Internet via the cellular network
- ▶ This connection can be shared to other devices using WiFi. The phone itself becomes a hotspot
- ▶ The benefit is that you have mobile internet access for as long as you have a phone signal



Wifi at Home



- ▶ To Setup WiFi at home you need to create a hotspot
- ▶ This can be via a wireless modem connected to the internet
- ▶ Using your mobile phone as a hotspot
- ▶ Using a mobile broadband device
- ▶ With a USB Wifi Modem (dongle)
- ▶ You can have multiple WiFi Access Points if you need to



Wireless Connectivity

- ▶ With Wireless networking at home you can share files between devices.
- ▶ You can connect smart devices to the internet e.g. laptop, tablets(iPad, Android), TV, fridge, air conditioning, reticulation, cameras, etc...