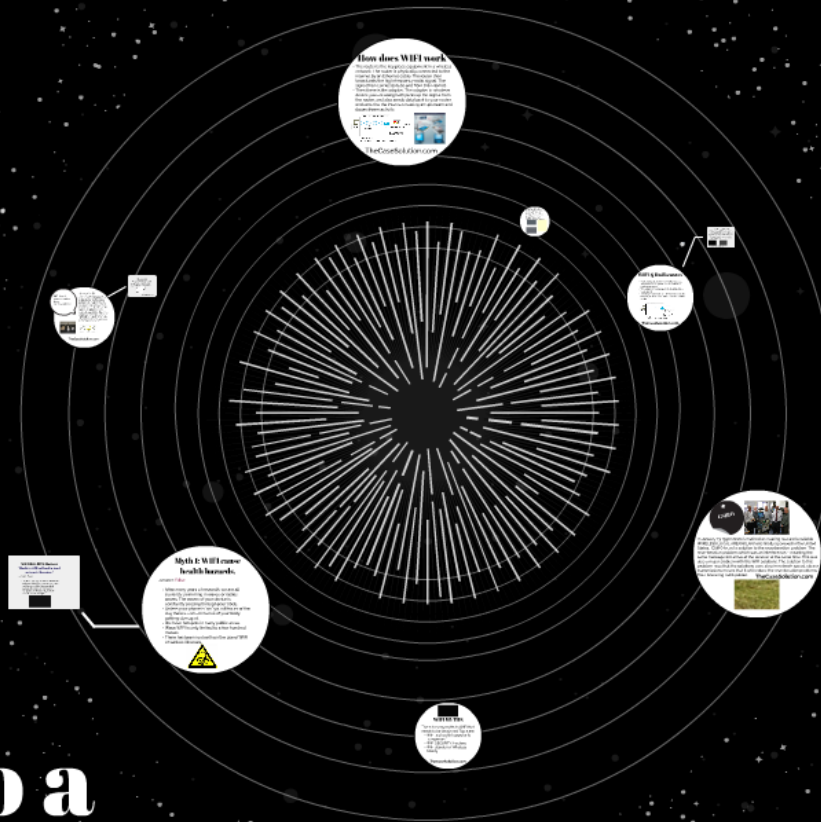


**Welcome to a
Wireless World**

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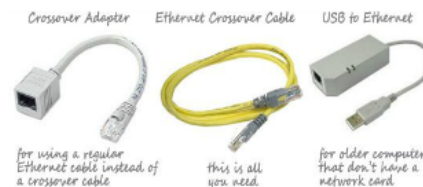
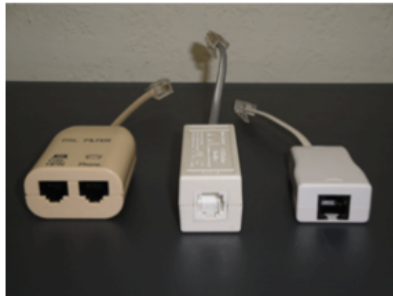
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WIFI- How it works, invention & use.
By: Joodzell Louis

History of WIFI:

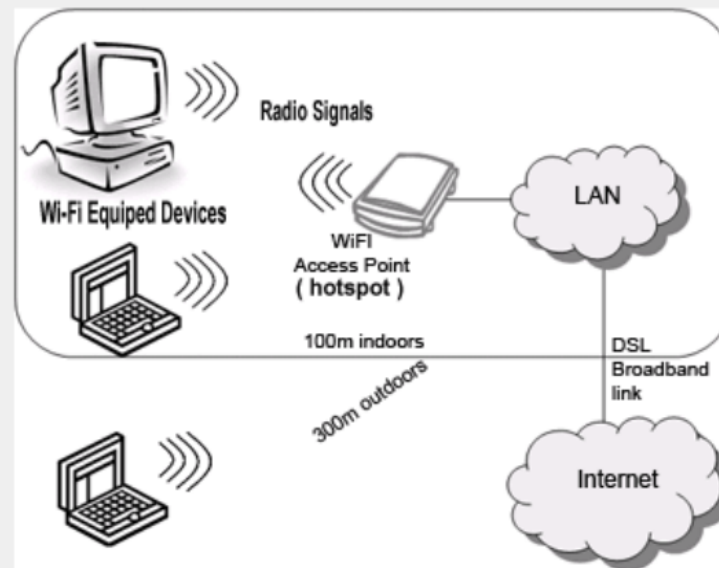
In 2016 we can freely use any mobile device cord-free but was it always like that? No. There was a time where you wanted to use the internet but your only option was to use a phone cable or Ethernet cable that can be plugged directly to your laptop or computer. In 1942 an actress Hedy Lamarr & a composer George Antheil created the version of frequency hopping. However in the 1990s a group of Australian scientists called CSIRO invented a way to solve the reverberation problem.



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What is WIFI?

"WIFI is a facility that allows smartphones, computers or other devices to connect to the internet or communicate with one another wirelessly through a particular area."



When did the first WIFI made its debut?

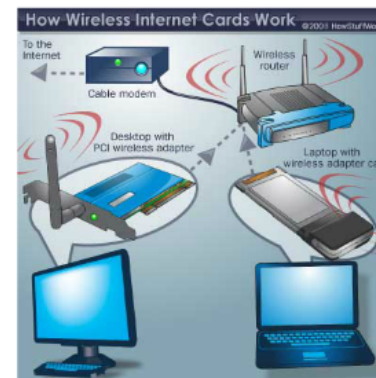
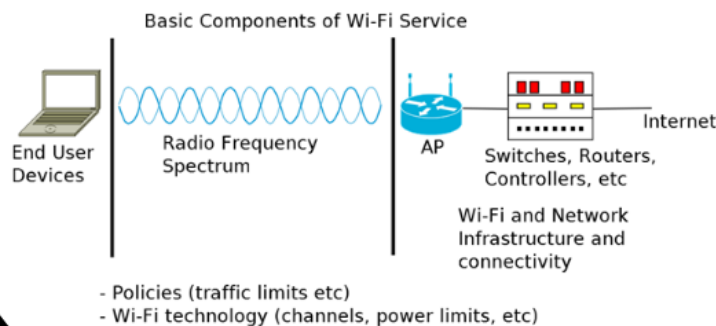
In 1942 Hedy Lamarr & George Antheil created a concept which was a frequency hopping based on a piano roll. Which had and 88 keys=88 frequencies. Hedy was transfixed by the events of WWII and felt compelled to invent something to help the Allied Cause. She was inspired by the a relatively invention in her room which was the remote control on the radio. During an event she shared her designs with a composer named George Antheil.

- Use their designs to make a piano roll to randomly switched the signal sent between a control centre and the torpedo that bursts within a range of at least 88 black & white keys.
- This then spread the earliest form of spread spectrum communication.



How does WIFI work

- The router is the key piece equipment in a wireless network. The router is physically connected to the internet by an Ethernet cable. The router then broadcasts the high frequency radio signal. The signal then carries data to and from the internet.
- Then there is the adapter. The adapter in whatever device you are using both picks up the signal from the router, and also sends data back to your router and onto the the internet creating an upstream and downstream activity.



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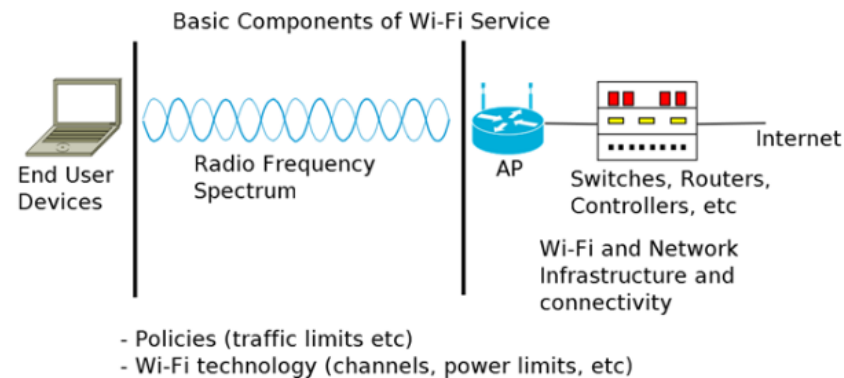
In January 23 1996 CSIRO's method of creating fast and a reliable WIRELESS LOCAL AREA(WLAN) was finally approved in the United States. CSIRO found a solution to the reverberation problem. The reverberation problem which was an interference; - meaning the same message will arrive at the receiver at the same time. This was also a major problem with the WIFI solutions. The solution to this problem was that the solutions were slow in network speed, slower transmissions means that it will reduce the reverberation problems from bouncing radio pulses.

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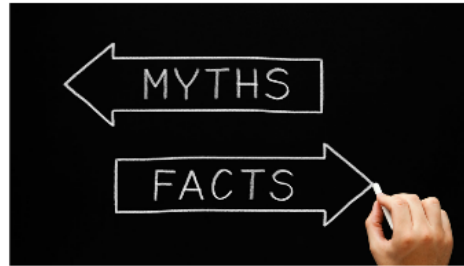


WIFI & Radio waves

- Radio waves transmit information across a network. The computer should include a wireless adapter.
- The adapter then translate data sent into a radio signal
- The same signal will be transmitted via to an antenna, to a decoder which is known as the router.



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WIFI MYTHS:

There is many myths to WIFI that needs to be debunked. Top 3 are:

- WIFI is a health hazard or is "dangerous"
- WIFI SECURITY: Hackers.
- WIFI stands for: Wireless fidelity

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