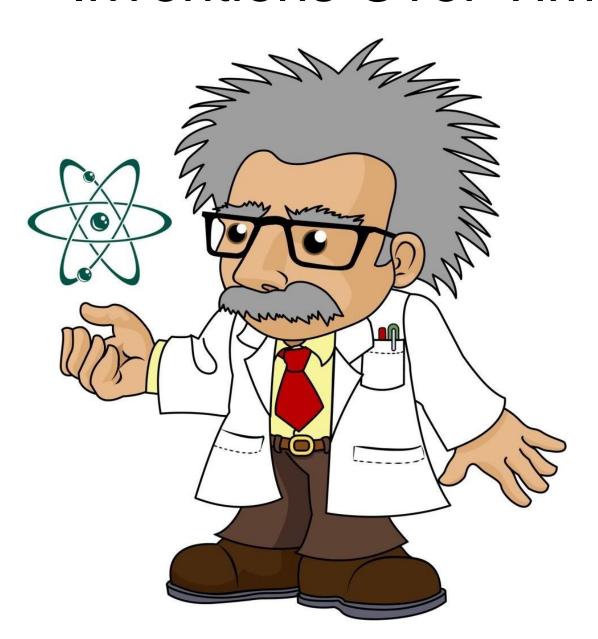


Internet History





Inventions Over Time



170,000 BC

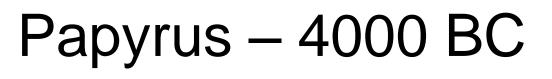






40,000 BC





- Papyrus was invented somewhere around 4,000 BC in the area known as Egypt today.
- It was made from a plant called Papyrus.

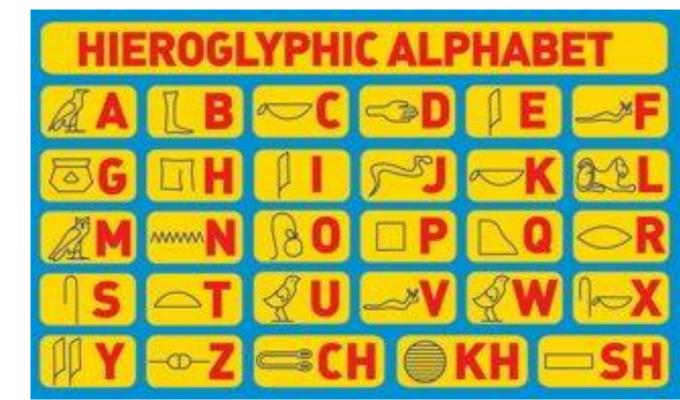






Hieroglyphics – About 3500 BC

Ancient Egypt



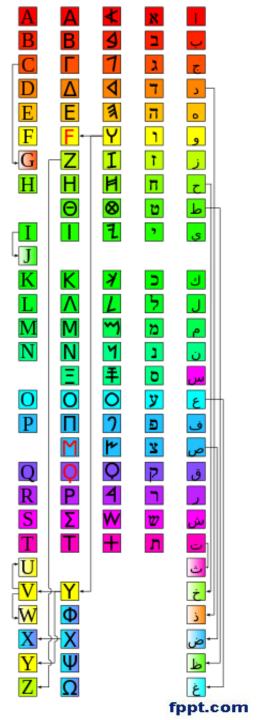
First Written Language – 3500 BC

Cuneiform by the Sumerians





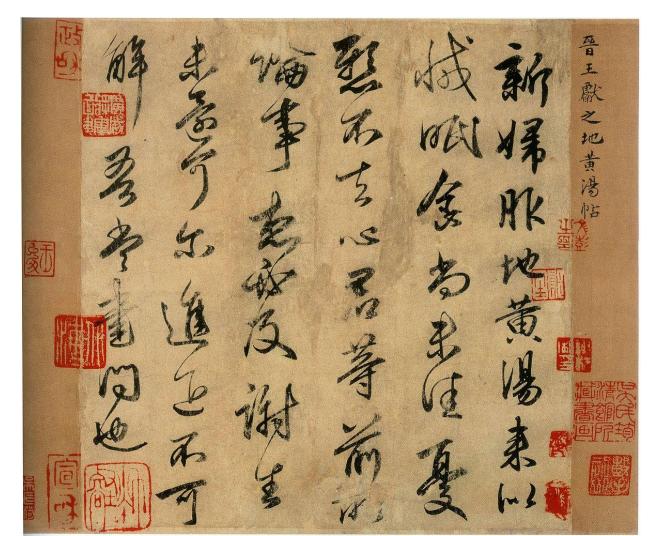
Greek Alphabet





Paper – 100 BC

Paper was invented in about 100 BC in China.





Woodblock Printing – 200 AD

 In about 200 AD, people in Asia carved their text onto a block of wood, smeared ink on it, and then pressed it onto paper. It could only make a small quantity of pages until the ink made the wood to soft.



Moveable Type - 1439

 Moveable Type invented in 1439 by Johannes Gutenberg.

The first thing he printed was the bible

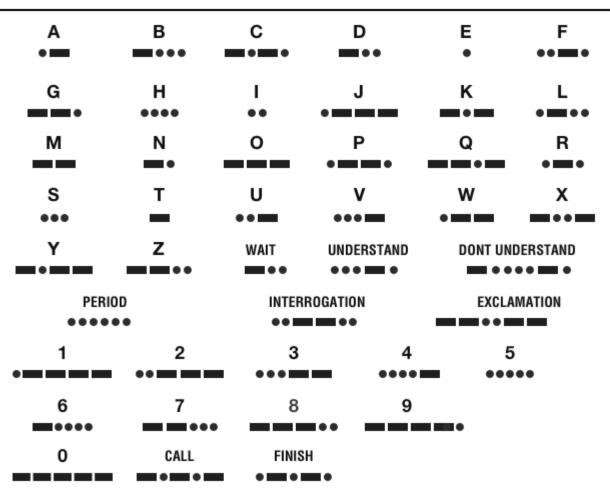




Telegraph - 1837

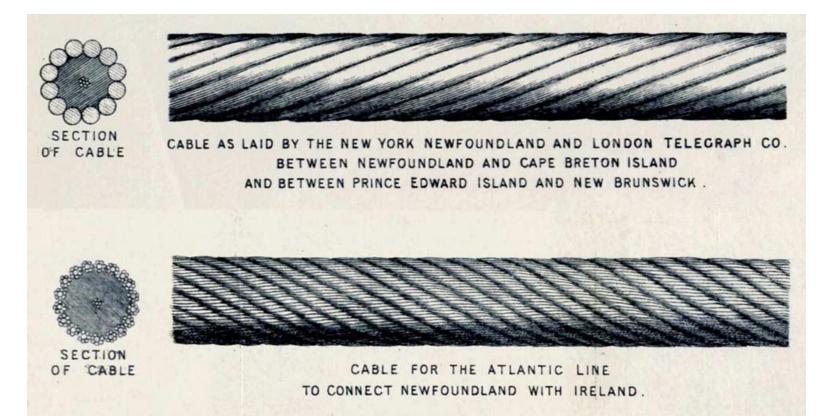
Used Morse Code





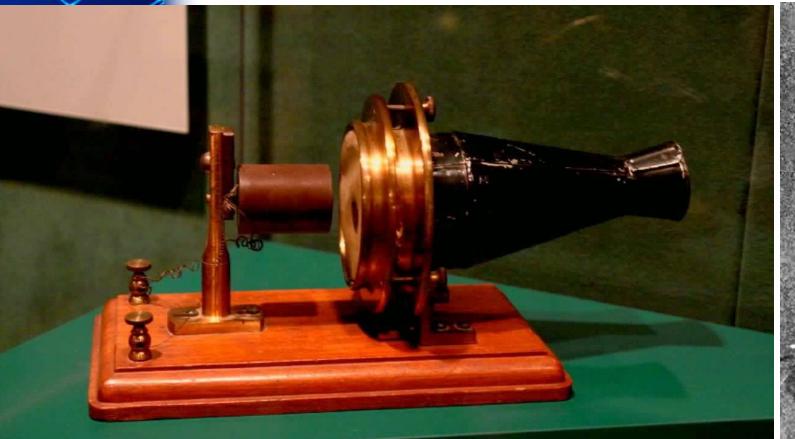


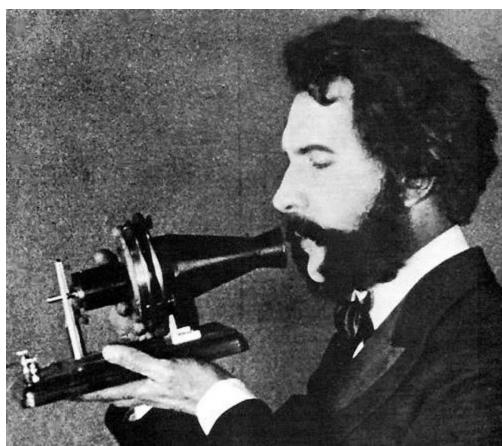
- 1858
- The first undersea cable across the Atlantic ocean was laid. It only worked for a month before it quit working.



Telephone - 1876

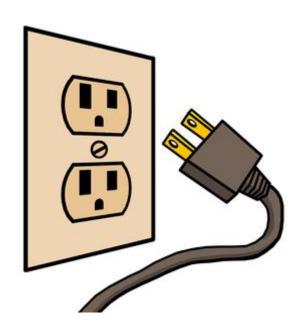
Invented by Alexander Graham Bell





Household Electricity - 1879

Dolgeville New York was the first town to get electricity in some of the factories.





Motion Pictures - 1892





Radio - 1895

Invented by Guglielmo Marconi





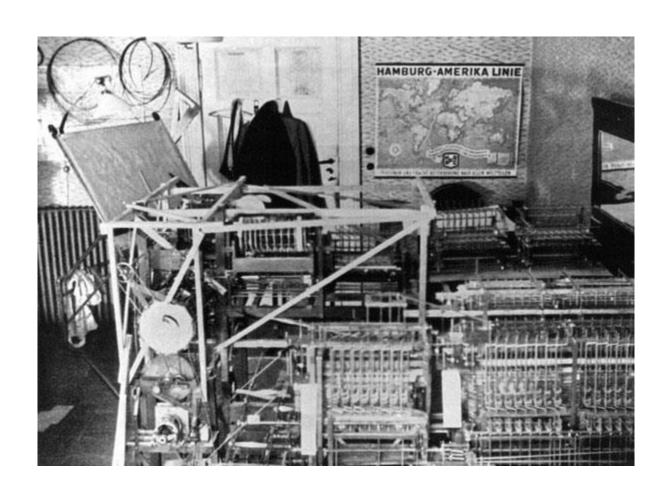
Television - 1927

Philo Farnsworth





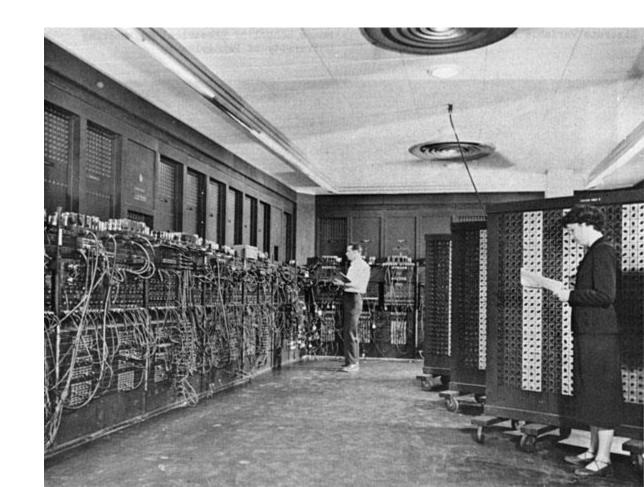
First Programmable Computer - 1936





First Digital Computer - 1943

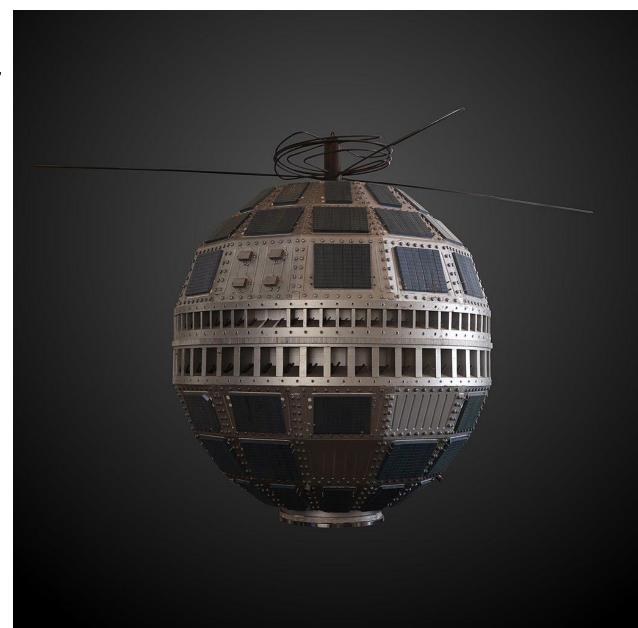
- Was called the ENIAC
- Weighted 30 tons
- Cost \$487,000





First Communications Satellite - 1962

 Could only be used for 20 minutes every 2.5 hours when it passed overhead.



First Cell Phone - 1973

- Weighed 2.5 lbs
- Cost \$4,000

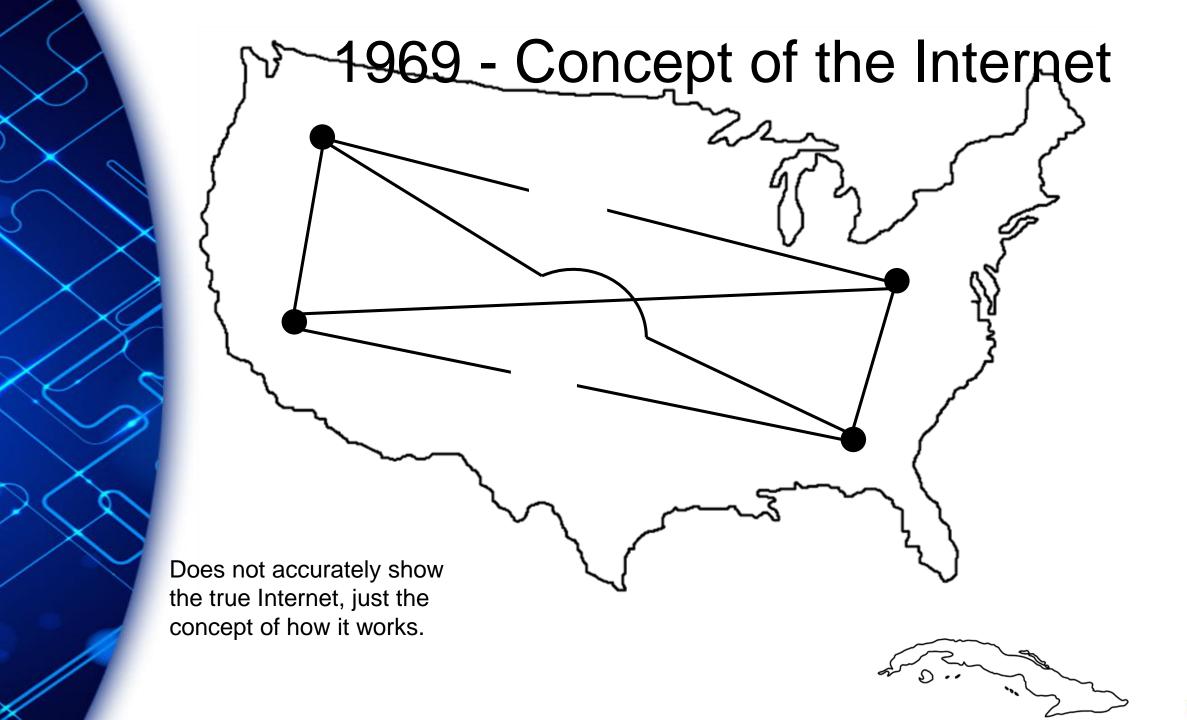


First Home Computer - 1977

- TRS-80
- Cost \$600

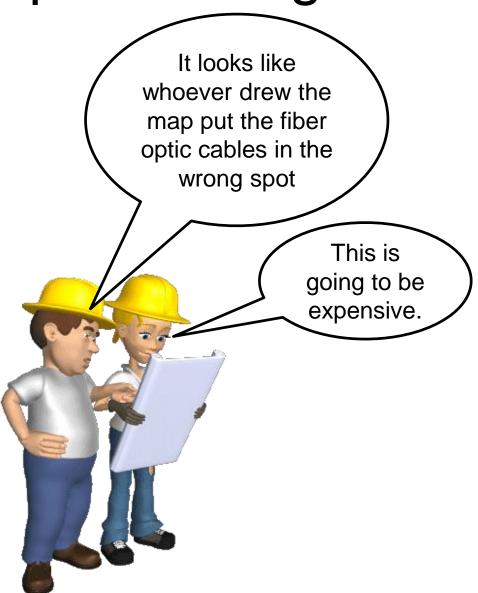


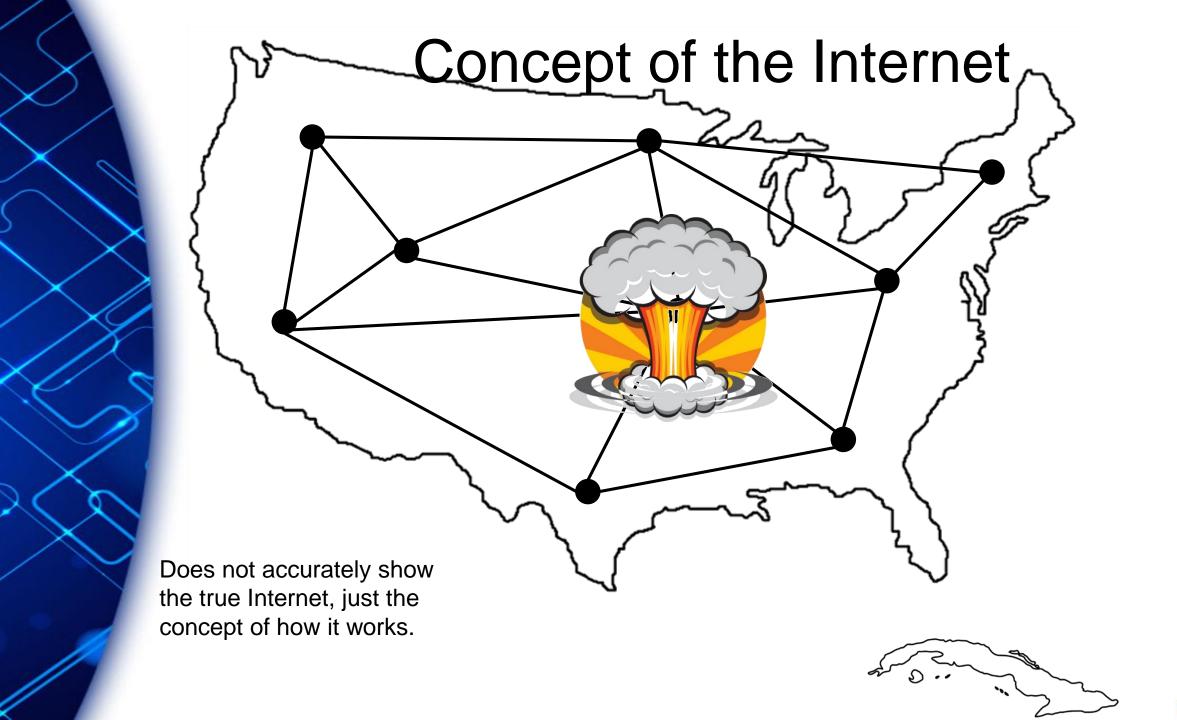




Why the Internet quit working ©

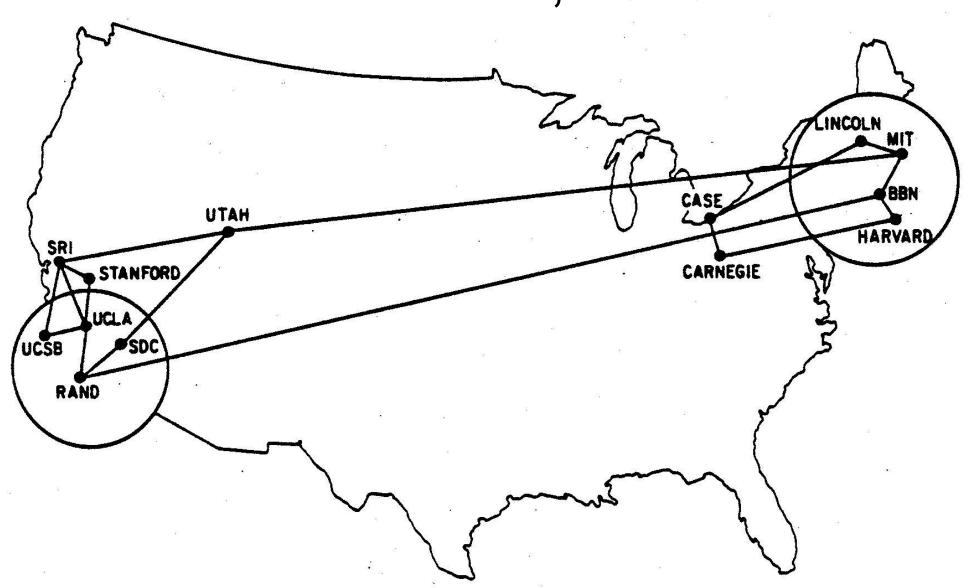




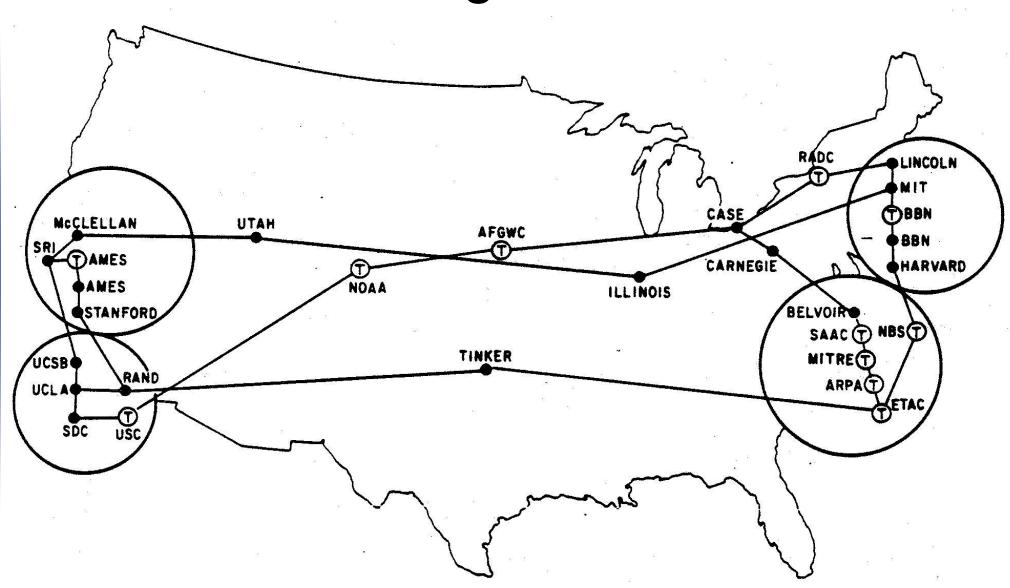


December 1969 HATU

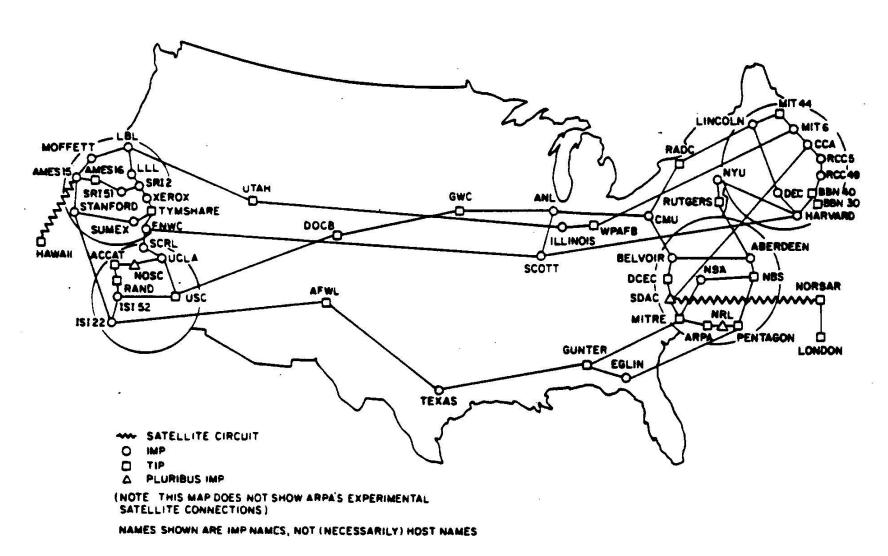
December, 1970



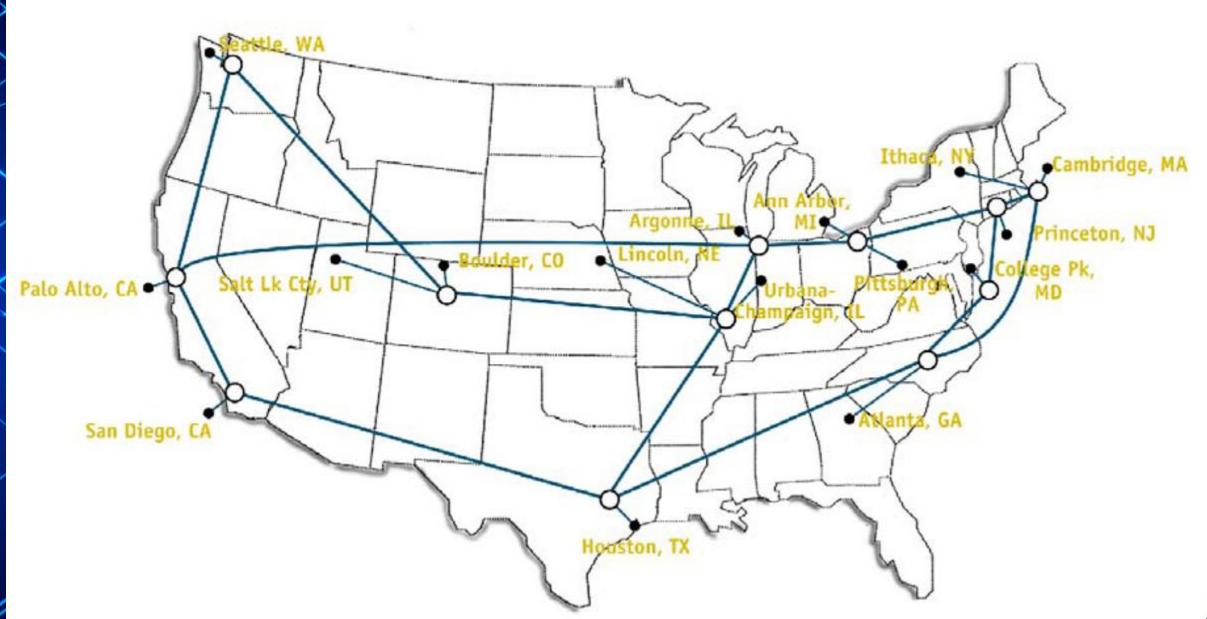
August 1972



July 1977

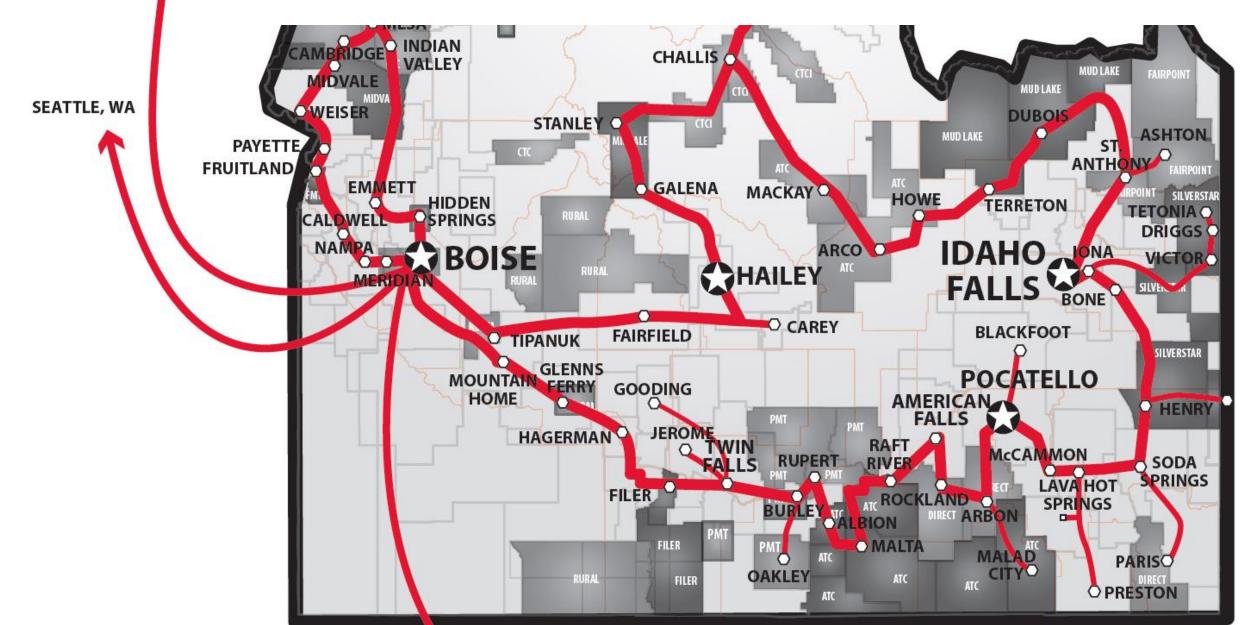


NSFNET T3 Network 1992



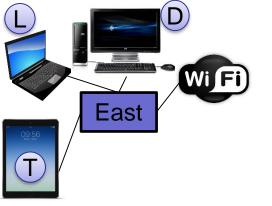
Internet Backbone - 2015

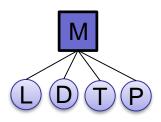
Syringa Networks Backbone

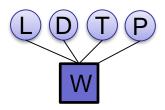




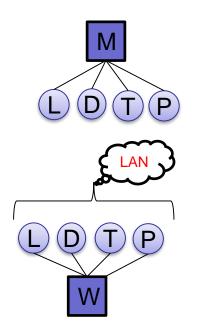
Draw the following on your paper. Write neatly and draw small so everything fits nicely!



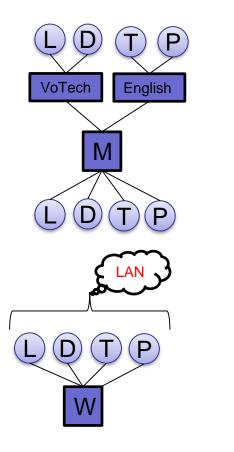




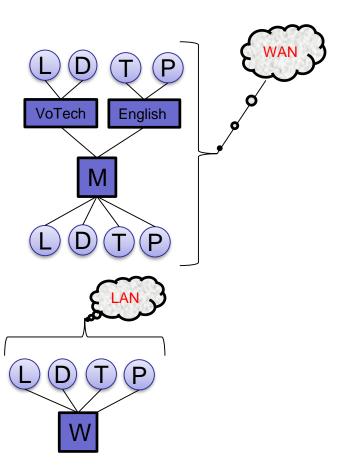


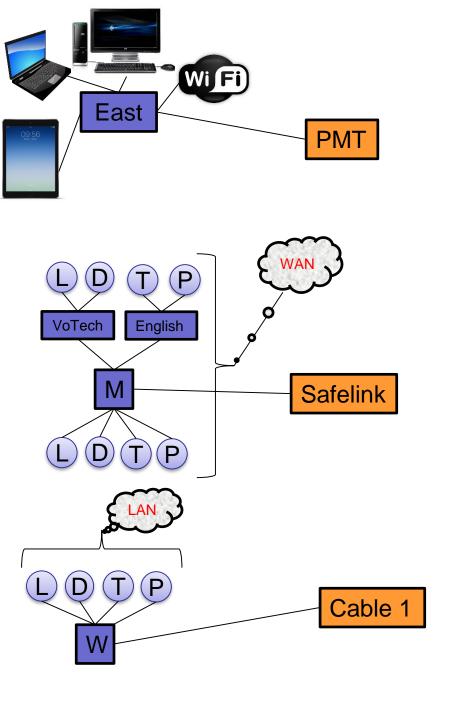


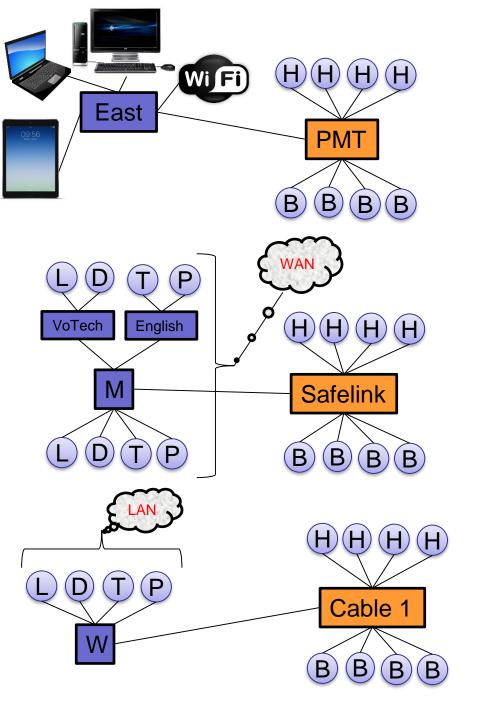


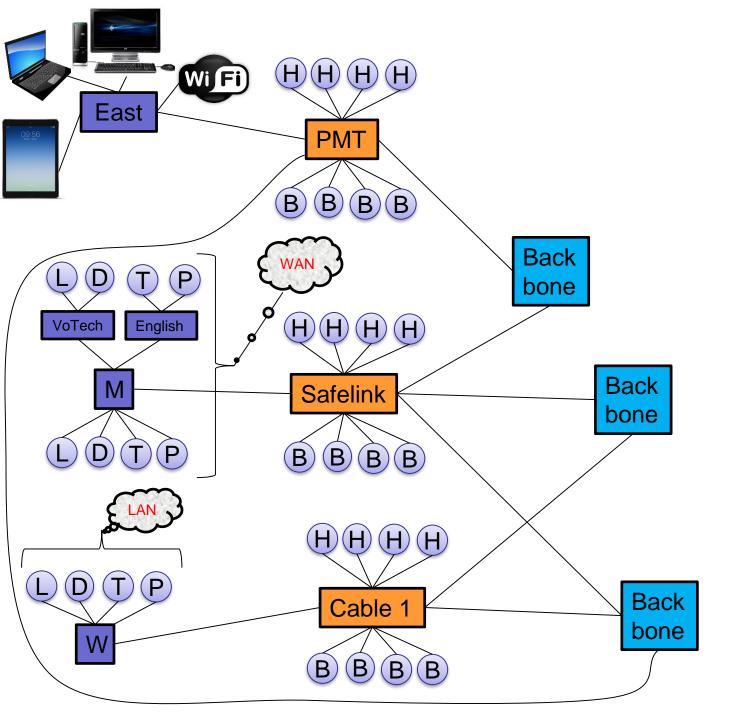


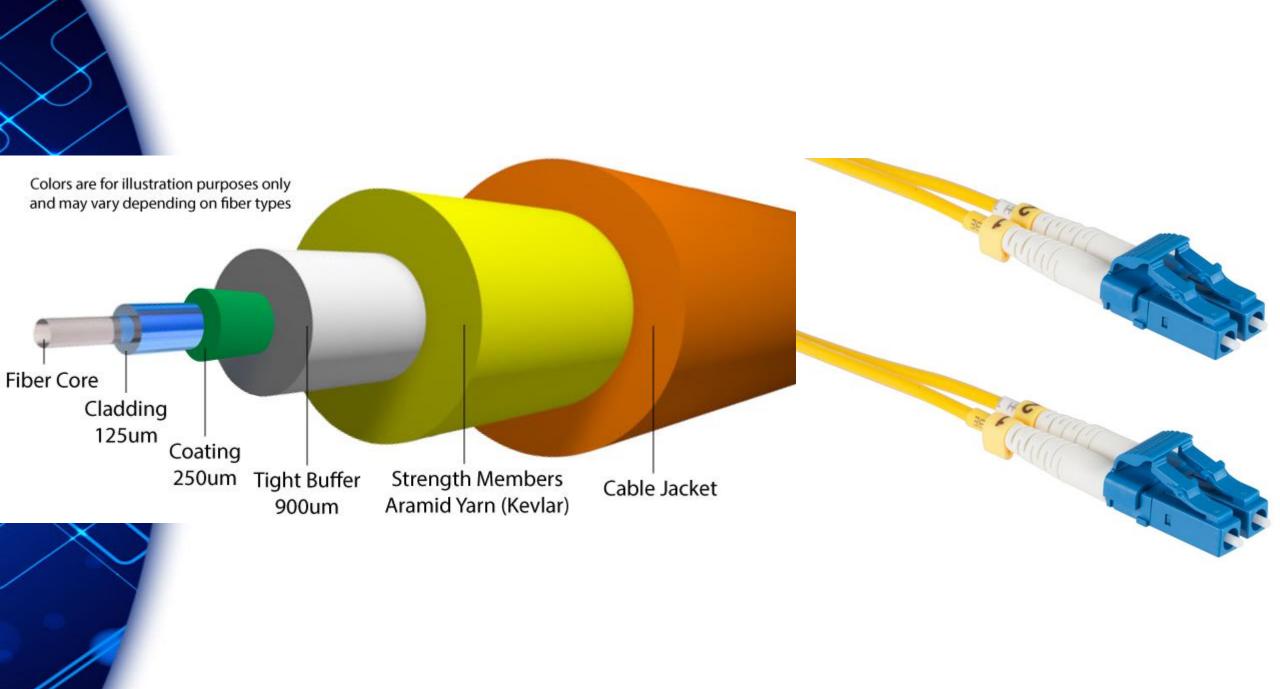




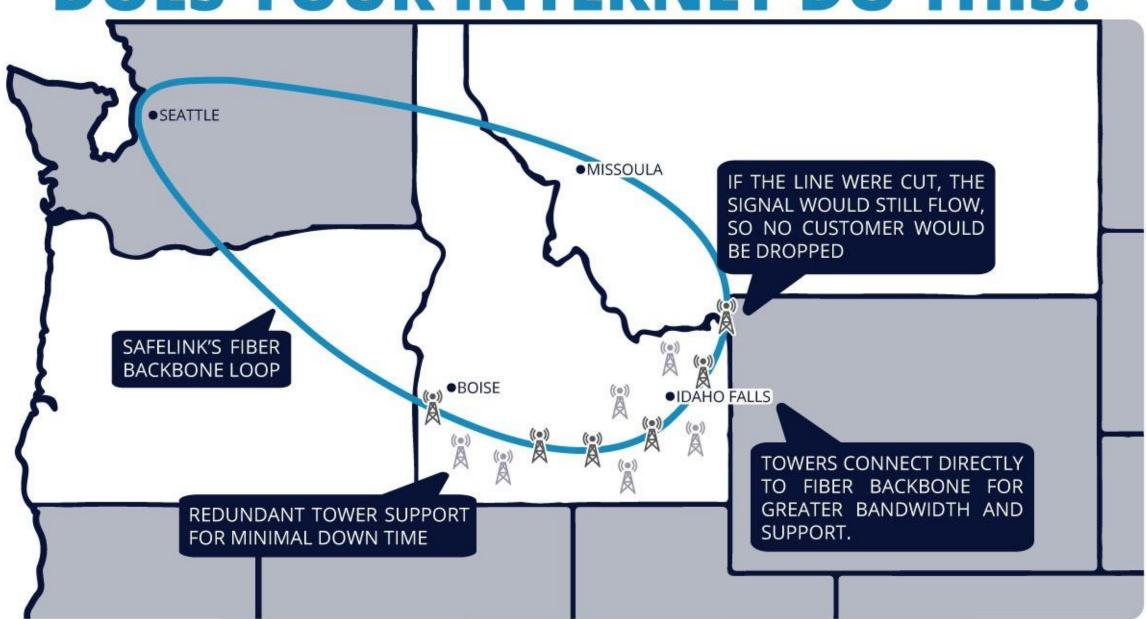


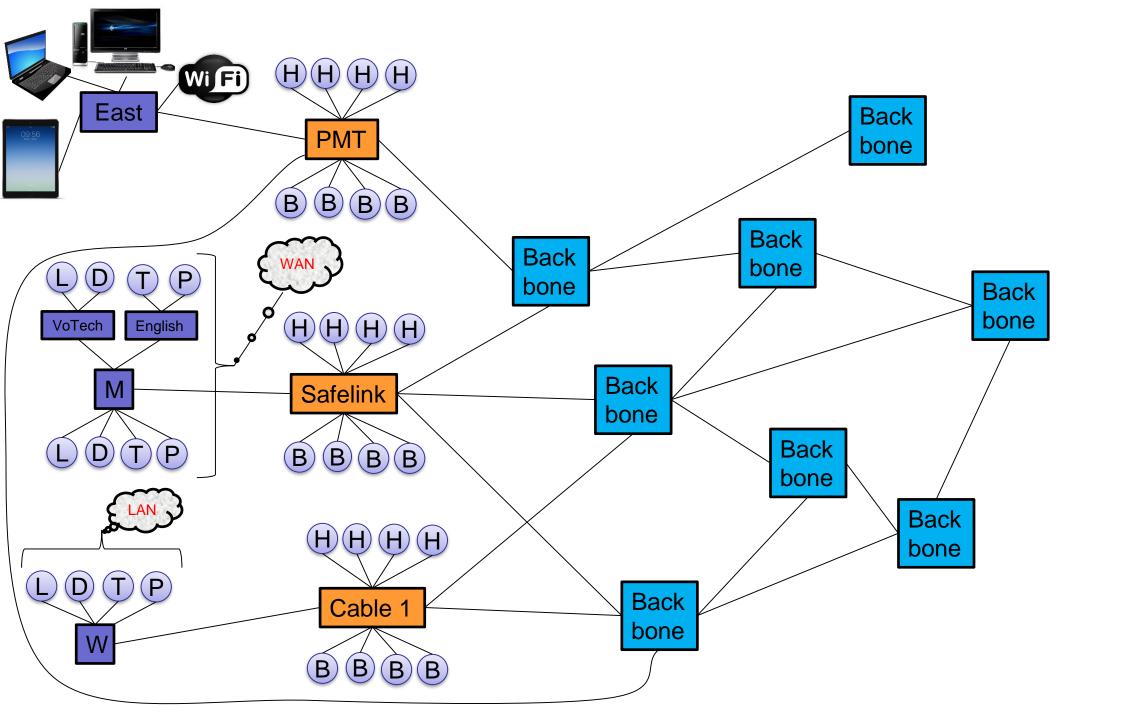


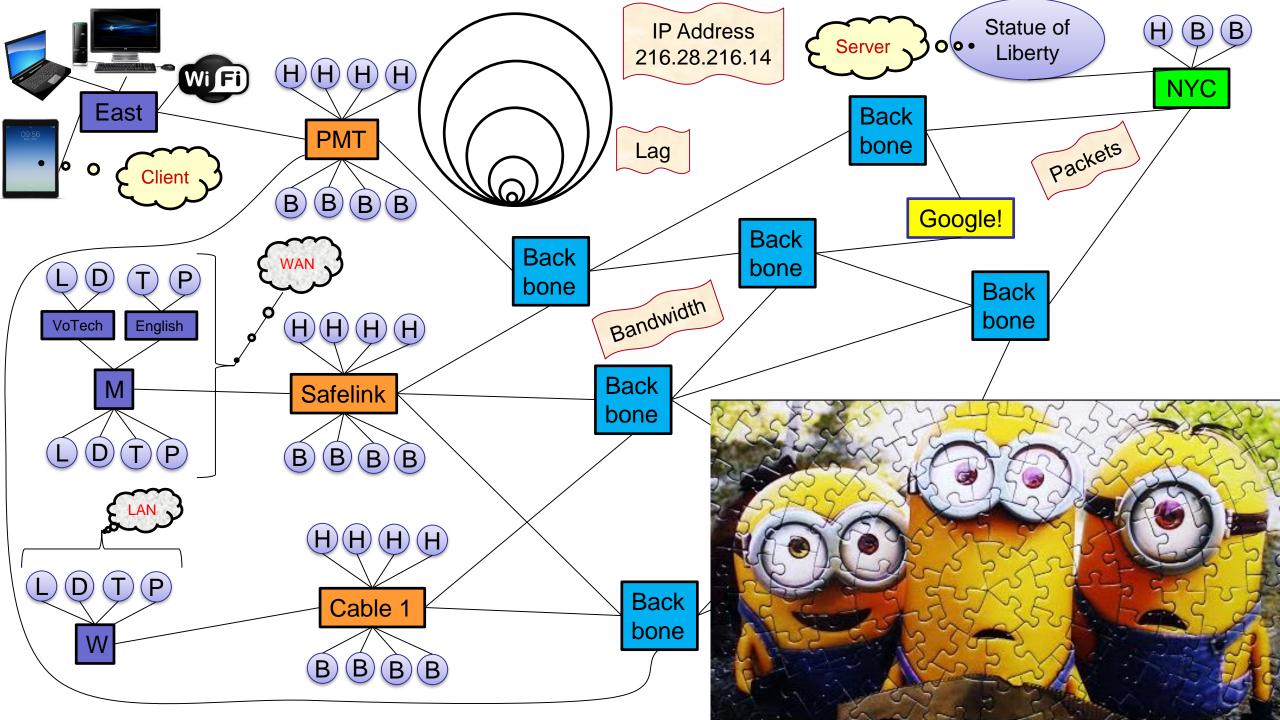




DOES YOUR INTERNET DO THIS?









Result ID 7837664116

- ⊕ PING ms

 1 ∩
- © DOWNLOAD Mbps 498.51
- 485 99







Syringa Networks

Idaho Falls, ID

Change Server

```
Pinging google.com [216.58.216.14] with 32 bytes of data:
Reply from 216.58.216.14: bytes=32 time=21ms TTL=54
Ping statistics for 216.58.216.14:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 21ms, Maximum = 21ms, Average = 21ms
```

A byte is a group of eight 0's or 1's in binary (01001010)

A ms (millisecond) is a thousandth of a second.

```
Tracing route to google.com [216.58.216.14]
                                                      The IP address to my computer
over a maximum of 30 hops:
                                                       The IP address our server
                                 10.52.0.1
       <1 ms
                <1 ms
                         <1 ms
 2
                <1 ms
                         <1 ms
                                 10.2.0.1
       1 ms
                                                           The IP address at PMT
                                192.168.1.1
 3
       <1 ms
                <1 ms
                         <1 ms
 4
        1 ms
                <1 ms
                          1 ms
                                 72.22.225.193
                          9 ms
                                 ip-66-232-69-213.syringanetworks.net [66.232.69.213]
        9 ms
                 9 ms
 6
                                 Request timed out.
                                 209.85.172.116
 7
       21 ms
                21 ms
                         21 ms
                                                           Servers on the backbone
 8
                                 108.170.247.161
       22 ms
                22 ms
                         21 ms
                                 108.170.237.185
 9
       21 ms
                21 ms
                         21 ms
                                 lax02s21-in-f14.1e100.net [216.58.216.14]
10
                         21 ms
       21 ms
                21 ms
                                                                           Where Google is
Trace complete.
```

