The History of Data Exchange

Whether it's complaining about the quality of copper (the subject of the first letter ever discovered), or transmitting secure transaction data via the cloud, humans have always needed to exchange information. For just about as long, other humans have tried to intercept this data for their own purposes. Here are some of the many ways that people have communicated with each other over the years—while at the same time trying to protect themselves from snoopers.



Humankind's Age of Literacy dawned more than five thousand years ago, with the

3200 BCE

Letters

invention of writing in ancient

Mesopotamia.

Messenger Pigeons

Around

700 BCE

Homing pigeons have been utilized for carrying messages since as early as the first Persian Empire. They were likely used during Julius

Caesar's conquest of Gaul-and 250,000 pigeons were kept in service by the United Kingdom during World War II.



passing information across 18th-century France with an alphabet made from wooden paddles. This primitive optical telegraph system

Picture a chain of Windmills

Semaphore Line

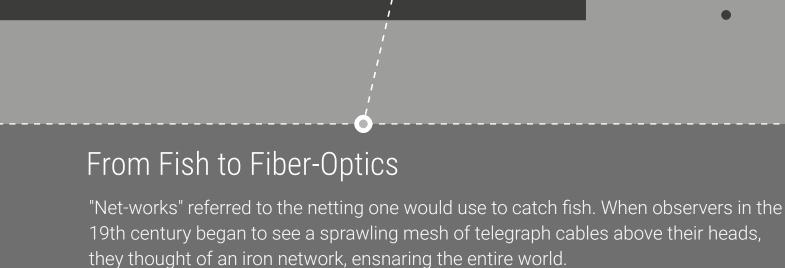
1792

once covered a total distance of

with the aid of computers, the efficiency of Morse code could have only been improved by a further 15%.

1844 AD

Telegraph



The electric telegraph gained popularity

Modern researchers estimate that even

due to the efficiency of Morse code.



1951

Magnetic Data Tape Storage

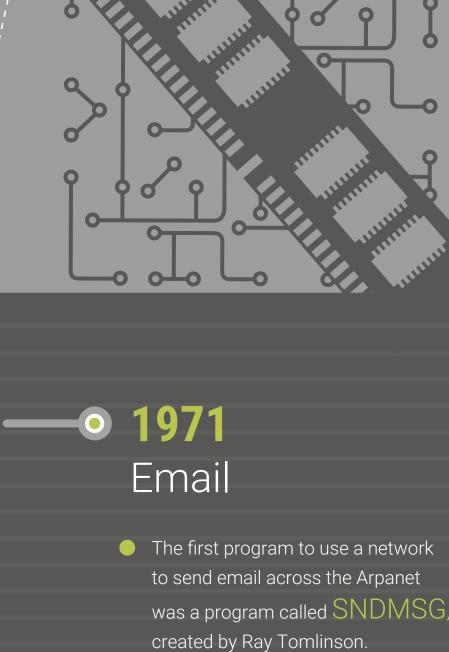
whopping 224 kB.



The first tape drive - UNISERVO -

-UNIVAC. The tape was half an inch

wide, 1200 feet long, and could store a



In 1971, Arpanet had 23 hosts, resulting in a few dozen email users. As of 2015, 2.6 billion people

use email.

This program introduced the

denote a hostname.

convention of using a "@" sign to

you can."

Cloud Storage

CompuServe was effectively the first

cloud storage provider, offering its

Cisco predicts that by 2019, 86%

completed in cloud data centers.

users a whopping 128K of

of computing tasks will be

1983

network storage.

40 bits:

"I'm the

creeper:

1991

1971

Creeper

The internet introduced its first

virus, a program that Spread

terminals, printing the message:

Pretty Good Privacy (PGP) The first widely-used email encryption standard was created

1996

Hotmail

128 bits:

security protocol which would prevent hackers from snooping on data while it was being transmitted.

of this protocol.

encrypted data.

Secure Network

Programming

In 1993, researchers from

Netscape began to develop a

SSL Version 2.0 was the first version

SSL 3.0 was declared obsolete in

an exploit where just 256 SSL

requests would begin to reveal

2014, after the POODLE bug revealed

1995

- People can put Whatever they Want into the cloud, and send whatever they want over email. Digital services are on the rise.

S/FTP is still commonly used.

cloud storages.

Employees need to collaborate with colleagues and to access multiple

NOW

- By 2020, 95% cloud breaches will be due to human error. The average cost of a data breach is
- Safe-T Box offers multiple innovative

allowed users to create their own email addresses and send messages via a browser-based client. In its first year of operation, it attracted 8.5 million users.

One of the first free services that

2 megabytes of free online

Users were each given

hotmail

- - - \$3.5 million.
 - secure data exchange and secure

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data transfer solutions.

and out of the organization is secured, governed and audited, preventing employees from exchanging or uploading documents of a sensitive nature, ensuring data entering the organization via digital channels is inspected, while still allowing the entire organization to use the tools that allow their productivity to soar.



SAFE-T

Our secure data exchange broker technology ensures all data transmissions into