

Exhibiting Communications



Digital Narratives at the National
Library of Medicine

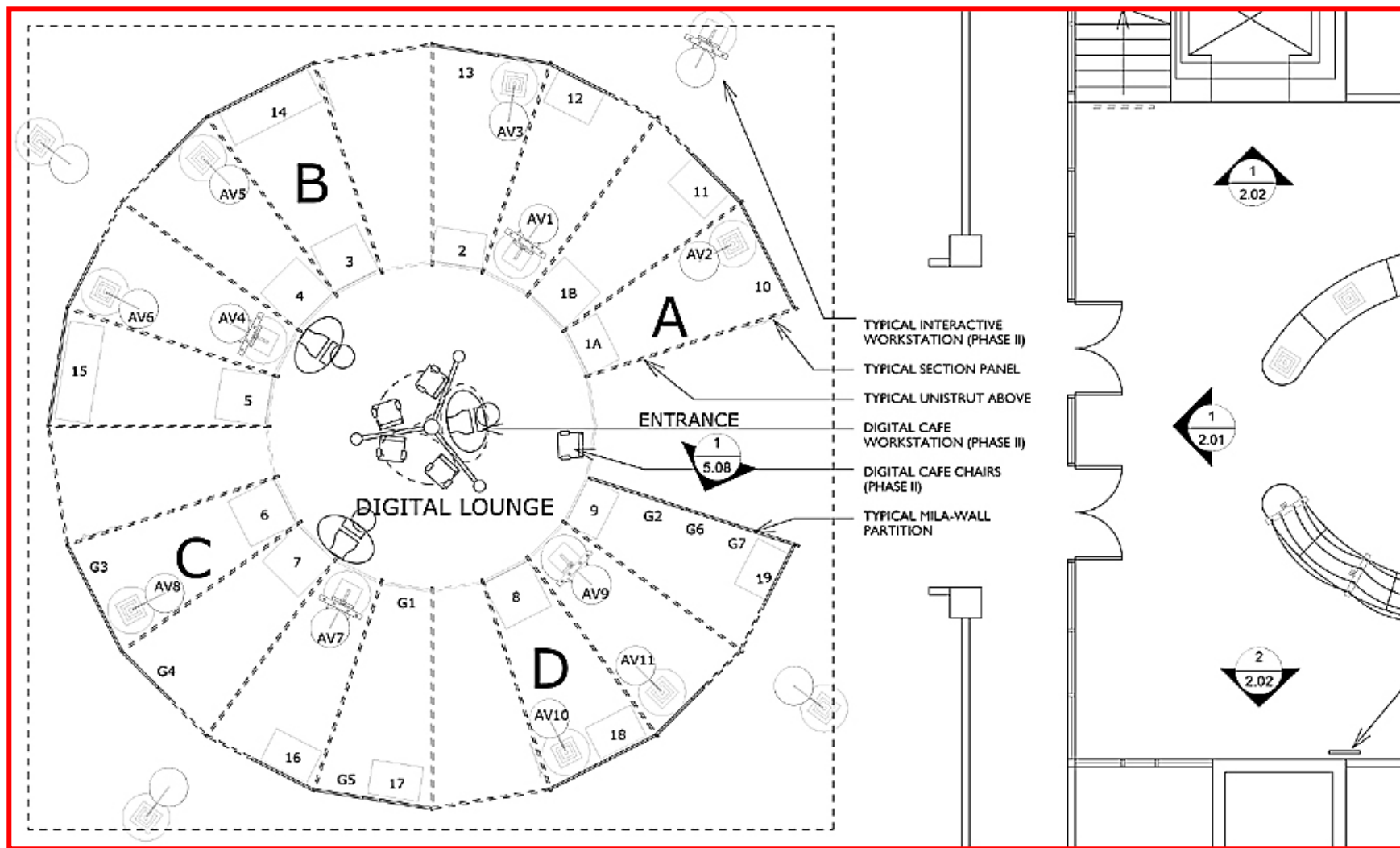




THE ONCE AND FUTURE WEB

WORLDS WOVEN BY THE TELEGRAPH AND INTERNET









The Telegraph

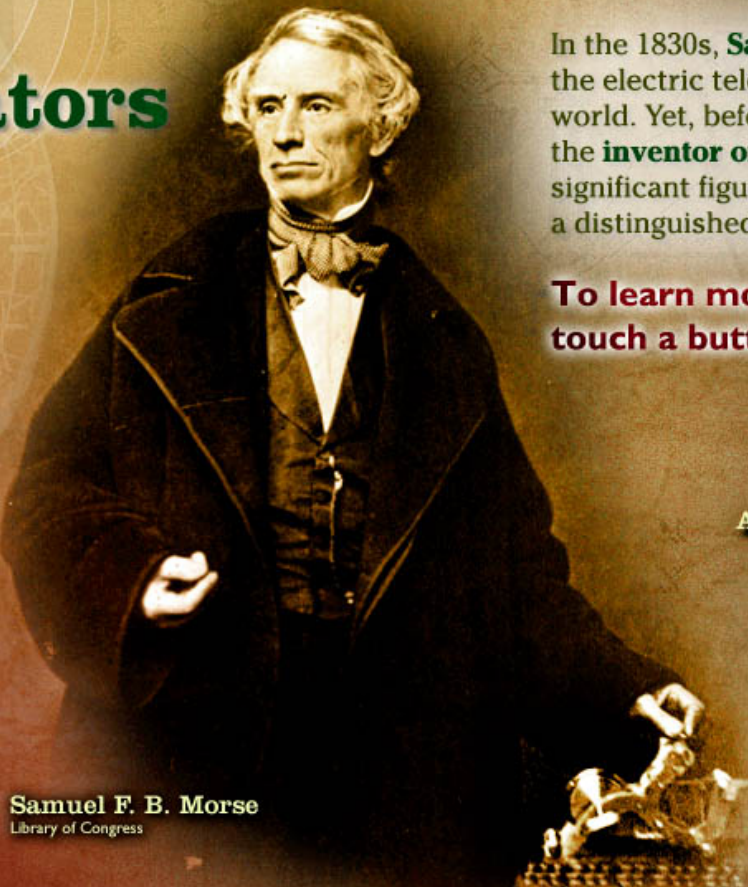


The Internet



Innovators

Samuel F. B. Morse



Samuel F. B. Morse
Library of Congress

In the 1830s, **Samuel F. B. Morse** (1791-1872) invented the electric telegraph, a device that transformed the world. Yet, before he became known for his work as the **inventor of the telegraph**, Morse already cut a significant figure in American culture and society, as a distinguished **painter** and maverick **political activist**.

To learn more about Samuel F. B. Morse, touch a button below.



A Chronology of
Morse's Life



Morse the Artist



In His Own Words



Start Over



Main Menu

Wired Society **Telegraphic Culture**

The sights, sounds and culture of telegraphy were celebrated in **popular songs** of the day as well as in a new medium that was sweeping the country, the **moving picture**. To see and hear the telegraph in song and film, touch a button.



**Singing
the Telegraph**



**Filming
the Telegraph**

Touch a Button to Continue



Start Over



Exhibition
Library



Singing the Telegraph

The Telegraph on Record

Hey, Western Union Man

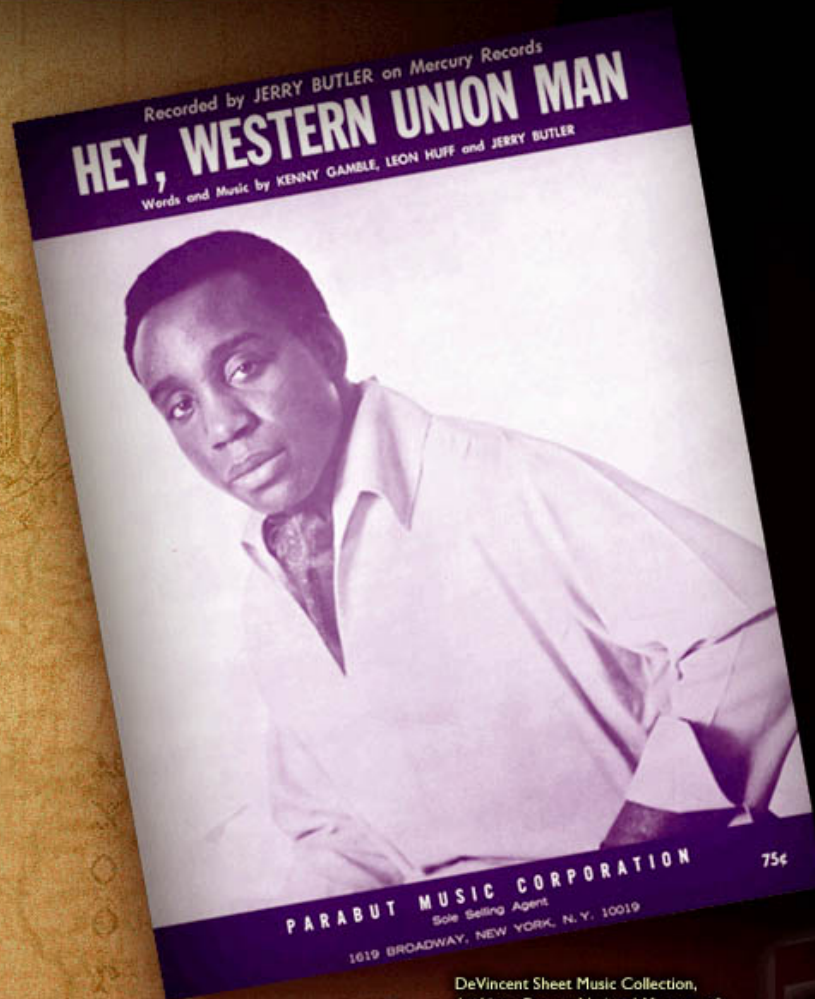
Performed by Jerry Butler

Written by Jerry Butler, Kenneth Gamble, and Leon Huff

Mercury Records, 1968

Whoa Western Union man
Send a telegram to my baby
Send a telegram, Send a telegram, whoa
Send a telegram to my baby

This is what I want you to say
I want you to tell her that I'm all alone
I tried to call her on the phone



DeVincent Sheet Music Collection,
Archives Center, National Museum of
American History, Smithsonian Institution



Start Over



Main Menu



Previous Screen



Filming the Telegraph

The Post Telegrapher

Bison Films
1912

A western outpost comes under attack by Indians. When the post telegrapher is sent out on a scouting mission, his party is ambushed. Wounded, he somehow summons enough strength to scale a telegraph pole, tap the wire, and send a message asking for help.



QuickTime™ and a
Sorenson Video 3 decompressor
are needed to see this picture.

Library of Congress



Pause



Start Over



Main Menu



Previous Screen

DR. CHAS. T. JACKSON

INVENT





Building the Telegraphic Network

In the wake of Samuel F. B. Morse's successful 1844 demonstration, governments and private companies **raced to wire the world**. At great cost and effort, continents and cities were linked via **transcontinental** and **transoceanic telegraph networks**. By the early 20th century, telegraphic connections crossed and linked every landmass except Antarctica. The world was now wired.



Brown Brothers

MORSE'S PATENT

FULL ENFORCEMENT

DR. CHAS. T. JACKSON'S

INVENT



Start Over



Main Menu

Brown Brothers

SAMPLING BROADWAY (downtown)

Annette Weintraub

A Multi-Medium

Another way to use the digital medium is to **combine text, images, and sound** in one piece, immersing the viewer in a **multi-dimensional experience**. The *Sampling Broadway* website, created by Annette Weintraub, wraps the viewer in the sights and sounds of everyday life in New York.



Sampling Broadway



Continue

the agitation brushes of the carwash set the pace for the steps of the crowds

Annette Weintraub



Start Over



Main Menu



Previous Screen



Show me how it works!

Bandwidth

Why are some connections to the Internet **faster** than others? Why does it take longer to send pictures and songs than words over the Internet? What are **broadband** technologies, and how do they work? Watch this animation to find out.



Play



Play

(Closed Captions)

Touch **PLAY** button to start animation.



Start Over



Main Menu



Innovators

J. C. R. Licklider
Leonard Kleinrock
Larry Roberts

Leonard Kleinrock

Computer scientist **Leonard Kleinrock** (1934–) played a key role in the development of the Internet. He developed the theory behind **packet-switching**, and his laboratory at UCLA was the home of the first node of the ARPANET, the forerunner of the Internet.



QuickTime™ and a
Sorenson Video 3 decompressor
are needed to see this picture.



Pause



Start Over



Main Menu



Previous Screen





Touch the Screen to Begin



The Telegraph Office

QuickTime™ and a
Sorenson Video 3 decompressor
are needed to see this picture.

Send A Message

Use the touch-screen keyboard to enter your message.
When you are finished, touch **Hear It** or **Send It**.

 **HEAR IT**

 **SEND IT**

Your
Message

GREETINGS TO MUSEUMS AND THE WEB
2002 FROM THE EXHIBITION PROGRAM AT
THE NATIONAL LIBRARY OF MEDICINE IN

 **CLEAR
ALL**

Touch this button to
re-enter your message.

Your Message in
International Morse Code

--- . . . - . - . - . . . - - - - - . -
- - . . . - - - . . . - - - -



Quit



Return to Start



Learn Morse Code

QuickTime™ and a
Sorenson Video 3 decompressor
are needed to see this picture.



Location: javascript:decodeMessage(0);

Welcome to the Telegraph Office



Here is the Morse Code message that MORSE sent you. To decode your message, click on the DECODE button.



--- --- ---
... --- ---
--- --- ---
... --- ---
- --- ---
... --- ---
.. - --- ---
.. --- ---

GREETINGS TO MUSEUMS AND THE WE
B 2002 FROM THE EXHIBITION PROG
RAM AT THE NATIONAL LIBRARY OF
MEDICINE IN BETHESDA MARYLAND.

THE ONCE AND FUTURE WEB

WORLDS WOVEN BY THE TELEGRAPH AND INTERNET



To visit the Home Page of "The Once and Future Web" exhibition
at the National Library of Medicine, click here.



Learn Morse Code

Learning Morse Code isn't
that difficult.

Each letter of the alphabet is
assigned its own configuration
of dots and dashes.

G — — •



Quit



Return to Start



Digitize This!

This program allows you to take a digital picture of yourself, manipulate the image and then email it to some friends.

To take your picture, look at the camera on top of the monitor. Make sure your image is centered in the frame. Then touch the **red** button.



Quit



Return to Start

Digitize This!

Digitize This!

This program allows you to take a digital picture of yourself, manipulate the image and then email it to some friends.

To take your picture, look at the camera on top of the monitor. Make sure your image is centered in the frame. Then touch the **red** button.



Quit



Return to Start

Digitize This!

To manipulate your image, touch the buttons around the picture.
When you are finished, touch **Email My Image**.



Email My Image



Spread Pixels



Oil Painting



Emboss



Deflate



Inflate



Swirl Right



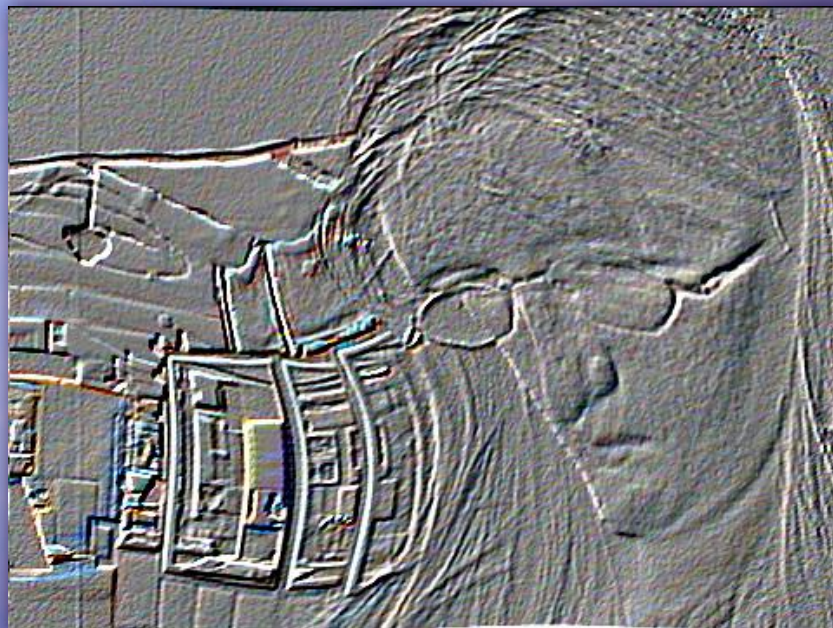
Swirl Left



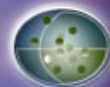
Flip



Flop



Blur Image



Speckle



Find Edges



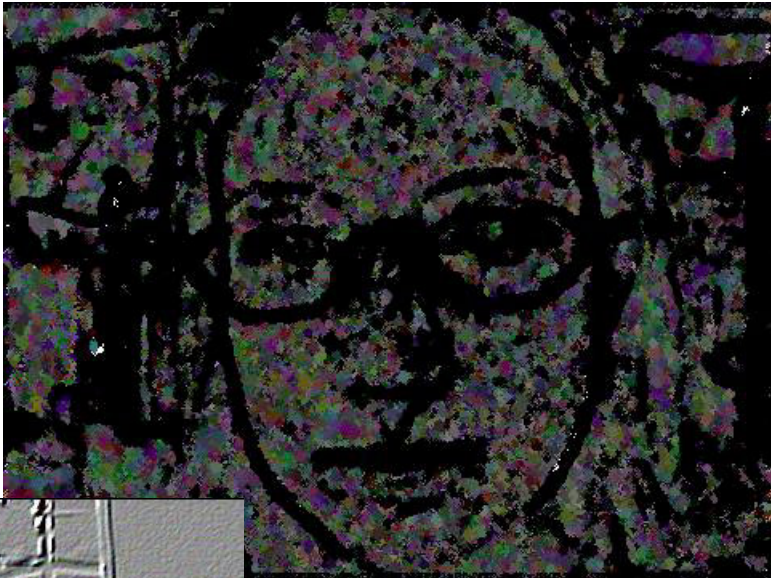
Return To Original



Quit



Return to Start



Digitize This!

You can email your digitized image to up to three friends.
This note will accompany your email.

Use the touch-screen keyboard to enter your name.
Then touch **Continue**.

