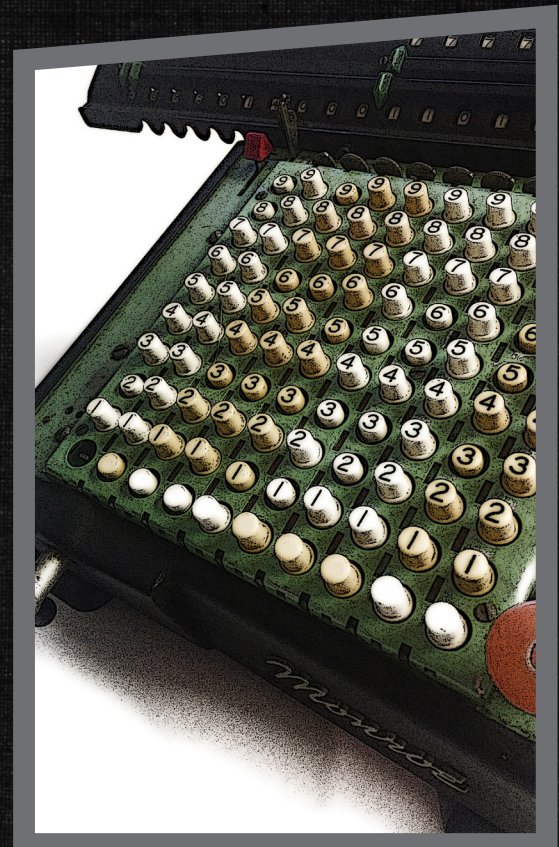
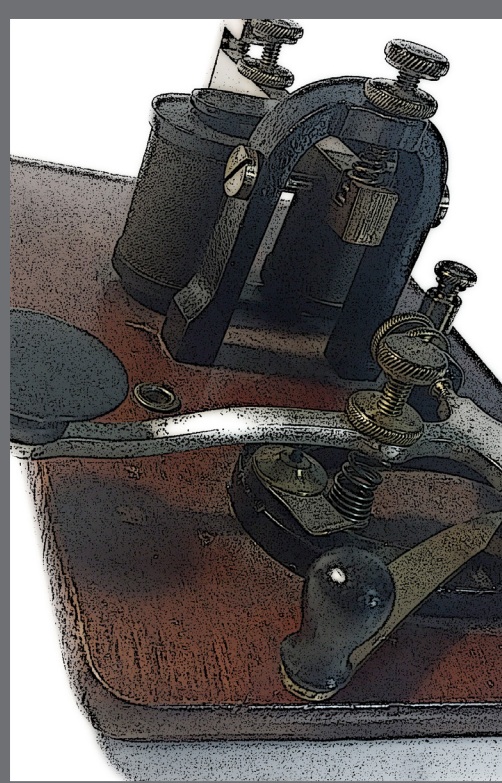
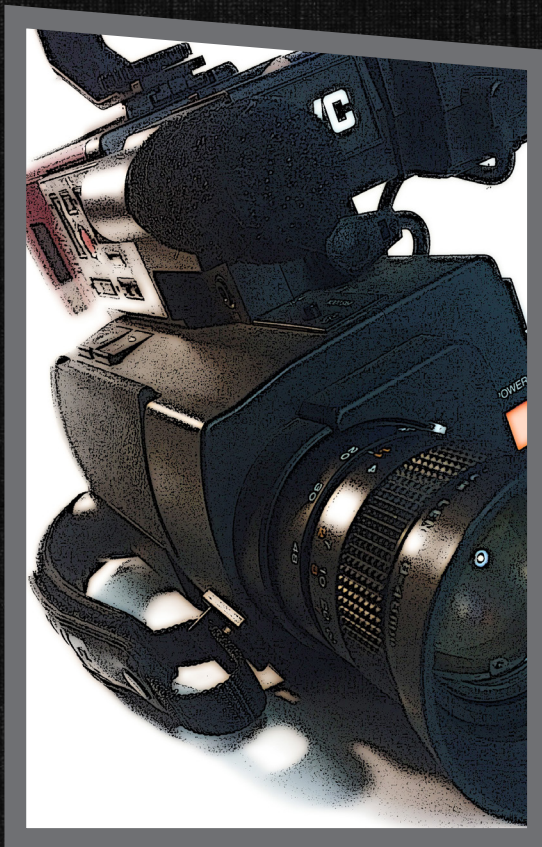


A COLLECTION OF
**TECHNOLOGY
ARTIFACTS**
1850 TO NOW

MEDIA | COMMUNICATIONS | COMPUTING



CONTINUE



▶ There's all kinds of technology, from aerospace technology to refrigeration technology, and so much more. But in the foreground of our lives day to day, there's media, communication and computing technology. Here are over 125 historical artifacts that chronicle its amazing variety and evolution.

THEY ARE physical objects that allow us to enter, function, and interact within a supplementary, non-physical, man-made world.

THEY ARE the ancestors of our indispensable, multi-function screen devices — which themselves will evolve in unimaginable new ways.

THEY ARE the near-magical technologies we've developed to capture and convert visual, audio, text and numeric content into an artificial form that can then be manipulated, stored, transmitted and re-presented.

THEY ARE the consumer and business products that have put an inconceivably complex web of global and local connections and resources at our fingertips.

THEY ARE the toys and tools that, along with motorized transportation, have done the most to define modern life. Seeing over 150 years of progress in one place offers historical context to current devices, and modern context to vintage devices.

THEY ARE three separate industries that have largely converged into one digital, democratized universe. In fact, today's smartphone performs or enables the function of virtually every device in the collection.

THEY ARE not collectible rarities; they are common items that have enriched our lives and extended our reach on a mass scale. Increasingly portable, they've allowed on-the-go people, organizations, companies and nations to reach out together in the virtual town square we think of as the *global community*.

THEY ARE the machines that we have grown so dependent on over the past century or so, that a sudden overall breakdown of the technology would be essentially apocalyptic...in all but the most 'primitive' corners of civilization.

EXPLORE THE COLLECTION

CONTINUE

A COLLECTION OF
TECHNOLOGY
ARTIFACTS
1850 TO NOW

MEDIA/COMPUTING
COMMUNICATIONS


















1850 - 1930



















THE TURN OF THE
CENTURY BRINGS
A MEDIA AND
COMMUNICATIONS
REVOLUTION

THE POWER OF
TECHNOLOGY IS PUT
IN THE HANDS OF
CITIZENS

THE DEVELOPMENT OF
THE VACUUM TUBE
INSPIRES A NEW
LEVEL OF INNOVATION

PAID

	Nautical Signal Lantern c1850 METEORITE	\$325
	Student's Writing Slate and Slate Pencils c1865	\$15
	Key-Wind Pocket Watch 1868 WALTHAM WATCH CO. AWC/PS BARTLETT	\$102
	Transatlantic Telegraph Cable 1873 TELCON/ANGLO-AMERICAN TELEGRAPH CO	\$100
	Travel Dip Pen & Pencil + Inkwell, Wax Seal Stamp c1875 EDWARD TODD & CO.	\$65
	'Magic Lantern' Slide Projector c1878 ERNST PLANK	\$142
	Engraved Woodblock Illustration and Engraving Tool c1887	\$19
	Typesetter's Composing Stick c1890	\$25
	Folding Camera 1899 ROCHESTER OPTICAL CO. REKO ORIG. PRICE \$20	\$225
	Pneumatic Tube Carrier c1900 LAMSON	\$30
	Stereoscope 1901 UNDERWOOD & UNDERWOOD SUN SCULPTURE	\$50
	Mimeograph Duplicator c1903 NEOSTYLE ROTARY NO. 6	\$50
	Cylinder Phonograph with Brass Horn 1905 EDISON STANDARD \$20	\$332
	Hand-Cranked Telephone Ringer Box 1907 GENERAL ELECTRIC TYPE 315	\$33
	Student's Index Typewriter c1907 SIMPLEX NO. 1 \$2	\$5
	Box Camera c1908 KODAK BROWNIE NO.3 \$4	\$10
	Slide Rule 1909 KEUFFEL & ESSER POLYPHASE 4053-3	\$






















	Table-Top Platen Printing Press c1910 SIGWALT CHICAGO NO. 11 \$10	\$132
	Auditorium Slide Projector 1911 BALOPITCON MODEL C \$70	\$94
	Crystal Radio Receiver c1914	\$50
	Operator's Mouthpiece, Headset and Patch Cord c1915	\$27
	Speaking Tube Mouthpiece with Whistle c1915	\$25
	First Lever-Fill Fountain Pen c1916 SCHEAFFER CLIP 3S	\$45
	Mechanical Adding Machine 1917 AMCO DESK FIGURING MACHINE \$35	\$15
	Portable Typewriter 1917 CORONA 3 \$50	\$150
	Candlestick Telephone 1917 WESTERN ELECTRIC 20AL	\$122
	WWI Field Telephone/Telegraph 1918 US ARMY SIGNAL CORPS EE-3	\$61
	Telegraph Key and Sounder c1919 BUNNELL \$8	\$57
	Hand-Cranked Home Movie Projector c1920 KEYTONE MOVIEGRAPH	\$65
	First Home Movie Camera 1923 PATHEX PATHE BABY \$25	\$91
	Vacuum Tube Radio and Headphones + Battery 1924 RCA RADIOLA III \$24	\$112
	Carbon Microphone c1927	\$200
	Airbrush c1928 PAASCHE TYPE HG	\$36
	Pocket Adding Machine c1930 RELIABLE ADDING MACHINE CO. VE PO AD \$3	\$10
	British Servant's Bell c1930	\$10






















1930-1970

THE PEOPLE ALL OVER
WORLD BECOME
INCREASINGLY
CONNECTED ON A
MASS SCALE

THE INVENTION OF THE
TRANSISTOR MAKES
ANYTHING POSSIBLE—
AND PORTABLE

PRODUCT DESIGN
BECOMES AS
IMPORTANT AS
PRODUCT FUNCTION

	Ship Officer's 'Bosun's Whistle' c1930	PAID \$20
	Post Office Box c1932 USPS No. 1	\$15
	Cradle Telephone c1937 WESTERN ELECTRIC 302	\$34
	Cathedral Radio + Vacuum Tubes c1938 PHILCO 37-84	\$100
	WWII Carrier Pigeon Message Capsule c1944 PG67	\$23
	Military Semaphore Signal Flag c1945	\$30
	Graphic Arts Ruling Pen c1946 DIETZGEN	\$0
	Television and 'Rabbit Ears' Antenna 1947 MOTOROLA GOLDEN VIEW VT-71 ORIG. \$190	\$99
	Home Movie Projector c1947 REVERE 85	\$20
	WWII Emergency Signalling Mirror c1947 GENERAL ELECTRIC CO. ESM/1	\$20
	Rubber Stamp 1947 COOKE	\$6
	Mechanical Calculator c1948 RELIABLE ADDING MACHINE CO. ADDOMETER	\$13
	Electric Calculating Machine c1948 MONROE LA5-160	\$27
	Juke Box Selector 1950 SEEBURG WALL-O-MATIC 100 3-W1	\$117
	Korean/Vietnam War Army Walkie Talkie 1950 RAYTHEON PRC-6	\$30
	Newspaper Ad Printing Plate 1951	\$25
	First Retractable Ball Point Pen c1952 FRAWLEY PEN CO. PAPERMATE	\$14
	Analog Computer Module/Operational Amplifier 1952 PHILBRICK RESEARCHERS K2-X	\$45
	First Felt Tip Pen c1952 SPEEDRY CHEM. PRODUCTS MAGIC MARKER	\$10
	Press Camera + Rangefinder, Flash, Light Meter c1952 GRAFLEX CROWN GRAPHIC 4x5	\$400 \$132
	Miniature Spy Camera 1953 MINOX GMBH MINOX AIII	\$47
	Pilot's Dead Reckoning Computer c1953 G. FELSENTAL & SONS MB-4	\$15























	Point-and-Shoot Camera c1954 KODAK BROWNIE HOLIDAY	\$5 \$5
	First Portable Wire Recorder + Mic 1955 PROTONA GMBH MINIFON P55	\$290 \$115
	8mm Film Editing Machine 1957 KALART EV-8	\$10
	Mainframe Computer Core Memory 1958 UNIVAC II	\$2000 \$85
	Portable IBM Card Punch 1958 IBM PORT-A-PUNCH	\$21
	'Bullet' Style Microphone c1959 ARGONNE AR-54	\$0
	'Pill' Style Microphone c1959 ARGONNE AR-57	\$36
	Drive-In Movie Car Speaker c1960 KOROPP	\$28
	Russian Abacus c1960	\$15
	Portable Record Player c1960 RCA VICTOR 1-EMP-2E	\$10
	Advertising Specialty Pencils c1960 + Brass Bullet Sharpener & Pink Pearl Eraser	\$5
	Transistor Radio + Transistors 1961 ARVIN 61R13	\$10
	3-D Slide Viewer 1962 VIEW-MASTER MODEL G	\$10
	First Wireless TV Remote 1956-65 ZENITH SPACE COMMAND	\$30
	Opaque Projector 1965 RAINBOW CRAFTS MAGNAJECTOR MJ100	\$8 \$14
	Telephone Call Router/Stepping Switch Relay c1965 AUTOMATIC ELECTRIC TYPE 44	\$29
	Electric Typewriter Font Balls c1966 IBM SELECTRIC	\$8
	Walkie Talkies c1967 REALISTIC 9	\$10
	Neon Sign c1967	\$33
	Printed Circuit Board 1968 TELETYPE 33ARS	\$25
	Japanese Fude Calligraphy Brush c1970	\$12
	'Beer Can' AM Radio c1970	\$7
	Police Car Scanner and 2-Way Radio + Mic 1970 MOTOROLA MOCOM-70	\$33
























1970-TODAY

MOSTLY THE FIRST IN
THEIR CATEGORY, OF
THE DEVICES WE'VE
USED AT HOME, AT
WORK AND ON THE
ROAD

THE SEMICONDUCTOR
ENABLES HANDHELD
PORTABILITY AND
ON-THE-GO USE

THE CENTER OF
INNOVATION MOVES
FROM HARDWARE TO
SOFTWARE TO THE WEB

	'Space Age Design' TV 1970 PANASONIC ORBITEL TR-005	PAID \$68
	First Instant SLR Camera 1972 POLAROID SX-70 LAND CAMERA ORIG. PRICE \$160	\$75
	First Commercial Pager 1974 MOTOROLA PAGEBOY	\$16
	First Computer Microprocessor/CPU Chip 1974 INTEL C8080 \$360	\$37
	Designer Telephone 1974 WESTERN ELECTRIC SCULPTURA	\$24
	Car 8-Track Tape Music Player c1975 HOLIDAY MODEL 51	\$15
	Cable TV Set-Top Box c1978 JERROLD SX-3	\$5
	First Digital Early Education Aid 1978 TEXAS INSTRUMENTS SPEAK & SPELL	\$15
	First Laptop Computer & Portable Modem/Acoustic Coupler 1981 EPSON HX-20 & CX-20 \$1000	\$120
	First Smart Modem 1981 HAYES STACK SMARTMODEM 300 \$300	\$15
	First Handheld TV 1982 SONY WATCHMAN FD-210 \$250	\$15
	First Cell Phone 1983-87 MOTOROLA DYNATAC 8000 \$4000	\$125
	First Smart Watch 1983 CASIO DATABANK CD-401	\$6
	First 'Graphical Interface' Computer + Keyboard, Mouse 1984 APPLE MACINTOSH \$2500	\$200
	First VHS Video Camcorder 1984 JVC VIDEOMOVIE GR-C1 \$2000	\$10
	First Personal CD Player 1984 SONY D-50 (DISCMAN) \$200	\$35
	Microfilm Viewer Enlargement Lens 1985 MINOLTA ROTATION 29X	\$15
	First Multi-Cartridge Handheld Game Console 1989 NINTENDO GAMEBOY \$90	\$10
	First Tablet Computer/Portable Touchscreen 1989 GRID SYSTEMS GRIDPAD 1900 \$3000	\$20
	First Consumer Digital Camera 1990-92 LOGITECH FOTOMAN \$1000	\$5
	First Handheld Scanner 1991 LOGITECH SCANMAN 256 \$350	\$1
	First Consumer Webcam 1994 CONNECTIX QUICKCAM \$100	\$5

	First Pocket PDA 1996 US ROBOTICS PALM PILOT 1000 \$300	\$9
	First Handheld Map-Based GPS 1996 MAGELLAN TRAILBLAZER XL \$300	\$20
	First Handheld Keyboard/Text Messaging Device 1996 MOTOROLA PAGEWRITER 2000X \$400	\$4
	First Handheld Mobile Printer 1996 PENTAX POCKETJET \$475	\$10
	First Wearable Computer and Barcode Scanner 1996 SYMBOL WSS 1000	\$37
	First E-Book Reader 1998 NUVOMEDIA ROCKET eBook \$200	\$10
	First Digital Music Player + Earbuds 1998 DIAMOND RIO PMP300 \$200	\$13
	First Wireless Home Gateway 1999 APPLE AIRPORT	\$12
	First Web-Enabled Cell Phone 2000 NOKIA 7110 \$600	\$20
	First Multi-Platform Virtual Reality Headset 2005 3000AD TRIMERSION \$500	\$2
	First Motion-Sensitive Game Controller 2006 NINTENDO Wii	\$17
	First Clip-On Music Player 2006 APPLE IPOD SHUFFLE \$70	\$0
	First Third-World Education/Networking Platform 2007 ONE LAPTOP PER CHILD XO-1 \$200	\$47
	First Mobile App Platform + Credit Card Reader, 'Bling' Case & Solar Charger 2007 APPLE IPHONE 2G \$600	\$39
	First Smart Pen 2008 LIVESCRIBE PULSE \$169	\$10
	First 'Key' Style Flash Drive 2009 LACIE IMAKEY	\$18
	Fiber Optic Transceivers & Cable 2009 IBM/OPNEXT/MOHAWK	\$27
	Ultrathin Device/Solar Calculator 2009	\$5
	Lavalier Mic 2012 AUDIO-TECHNICAL ATR3350	\$22
	First Voice Control Smart Home Assistant 2014 AMAZON ECHO/ALEXA \$180	\$27
	First Smart Wireless Earbud 2014 MOTOROLA MOTO HNT \$150	\$17
	LED Commercial Message Display 2015	\$25
	Live-Video Camera Drone 2018 JRC HJ14	\$28



1901 Stereoscope

UNDERWOOD & UNDERWOOD
SUN SCULPTURE

In a time before newspapers had photographs, these popular 3-D viewers exposed people for the first time to foreign travelogues, how-it's-made factory scenes, and even dramatic and comedic series. In other words, many of the things we watch on TV today.

The 'stereoview' photographs were taken with special dual-lens cameras that recorded two views, 2.5 inches apart—the same as the distance between our two eyes.

Where technology goes, smut isn't far behind, and soon stereoviews were available with au natural models, often frolicking in nature settings, in 3-D no less.



c1903 Mimeograph

NEOSTYLE ROTARY No. 6 STENCIL
DUPLICATOR

Rotary copying machines were an easy and blazingly fast innovation. Up until then, making copies had been a laborious process, one at a time in a flat frame.

Cutting a stencil on a typewriter, and placing it over an inked pad on the drum, made possible what we now know as desktop publishing. Mass communication was now in the hands of small businesses, schools and churches.

Since they don't require electricity like modern photocopiers, mimeograph machines are a practical option still today in some parts of third-world countries.



1905 Cylinder Phonograph

EDISON STANDARD \$2

The first records weren't flat discs—they were cylinders. Edison originally conceived of the phonograph as a business machine; original models allowed an executive to dictate and record letters, to later be transcribed by his secretary.

Musicians found that they could use the device to record and play back their practice sessions, enabling them to spot mistakes. Soon, music lovers began offering to buy these practice recordings for listening at home, thereby establishing the American recorded music industry.

At first, people back then listened to popular tunes, and vaudeville comedy, without the need for electricity. The motor for spinning the cylinder was a wound-up spring, and the sound was effectively amplified by a simple horn.





1947 Television

MOTOROLA GOLDEN VIEW VT-71

\$190

The year that full-scale commercial broadcasting began, 'big screen' 10-inch TVs were too pricey for most families at \$350. Then Motorola introduced this 7-inch set for just \$190—\$1600 in today's money.

Just as Ford's Model T did for automobiles, the table-top VT-71 finally put television within reach of the masses.

Opening a 'window to the world' in so many living rooms during the late '40s and early '50s—when TV ownership jumped from 0.5% of households to 56%—this model was a factor in the explosive success of television itself.



1954 Spy Camera

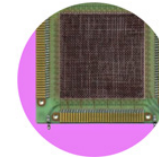
MINOX GMBH MINOX AIII

It was released as a luxury item for Europeans in 1937: a palm-size, always-available camera—perhaps forecasting today's digital and cell phone cameras.

During World War II and the Cold War, however, it became the prestigious, must-have espionage tool for intelligence agencies, and their enemies, around the world.

Even with its tiny 9.2 mm film, the camera's level of precision was so high that even photos of documents would come out razor sharp.

Since the Minox introduced the idea of film 'cartridges,' it was the first camera ever that could be loaded in daylight.



1958 Mainframe Computer

Core Memory Plane

UNIVAC II \$2000

From the days when a computer filled an entire room, this core memory was the first solid-state computer memory, and the last time you could actually 'see' memory.

Look closely. Each of those 4000 tiny round metal 'cores' represented one bit or byte of information. These planes came in sets of five, for a whopping 20k of memory, at a cost of \$10,000.

The cores are woven together with the slender wires that gave them their positive or negative charge. The only people capable of such an exacting effort were skilled female textile workers, who suddenly found themselves in the computer business.





1983 First Handheld Cell Phone

MOTOROLA DYNATAC 8000 \$4000

Carrying a wireless phone everywhere—without the bulky battery pack of a ‘car phone’—meant that for the first time, you would always be connected. For a long waiting list of buyers, that very idea was worth the four-thousand dollar price tag.

The first generation cellular network that the DynaTAC connected to was analog, and seriously limited; digital cellular didn’t come until 2G. But it still accomplished the technical miracle of ‘handing off’ a signal to subsequent cell towers as the user drove along, with no interruption of the conversation.

It took Motorola ten years to develop the technology for this pioneering phone and network. The first call on an early prototype was successfully connected, but reportedly to a wrong number.



1984 First ‘Graphical User Interface’ Computer

APPLE MACINTOSH \$2500

Other computers at the time displayed only green text and programming code against a black background. The Mac permanently revolutionized, and humanized, the computer experience with a ‘desktop’, windows, menus, icons, folders and a mouse. Microsoft’s imitation of the Mac’s interface, known as Windows, finally caught up six years later.

The first release of the Mac had lots of potential, but with just 128k of RAM and no internal hard drive, it had neither the power or the storage to actually accomplish anything useful.

Steve Jobs foresaw the future of personal computers by declaring the Macintosh a communication device rather than a computing device. To help spark creative communication, Apple bundled the novel, friendly and intuitive MacWrite and MacDraw applications with every Mac.



2007 First Third-World Educational/Networking Platform

ONE LAPTOP PER CHILD XO-1

It was conceived and designed as an educational platform to bring children of developing nations into the twenty-first century. In addition to drawing, writing, news and music apps, a twist of the screen turned it into an e-book reader.

With a built-in video camera, microphone and wi-fi, children were now able to network with their schools, their communities, the world, and each other. No electricity? Power could be generated with an optional wind-up handle.

When it was first released, Americans could purchase one online for \$400, and a second one would be provided free to a lucky child in an impoverished country.



early pieces

1850-1930



mid-century

1930-1970



newer stuff

1970-today

The Collection

Number of Devices: 134

Accessories &
Media Samples: 128

media originals



Newswire Photo

1961 NASA/MERCURY 4 ASSOCIATED PRESS

\$10



TV Commercial Storyboard

1965 OVALTINE WANDER COMPANY

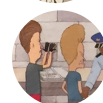
\$28



Original Comic Strip

1977 ARCHIE KING FEATURES SYNDICATE

\$25



Original Animation Cel

1995 BEAVIS AND BUTT-HEAD MTV

\$25



TV Show Script

1996 ROSEANNE ABC

\$0



Original Political Cartoon

1997 MIKE LUCKOVICH ATLANTA JOURNAL CONSTITUTION

\$0



Movie Storyboard

2002 JAMES BOND: DIE ANOTHER DAY MGM

\$15