

# Index

- 3Com, 110  
3D chips, 49, 50
- Adaptive software, 101  
Agricultural Revolution, 20, 21, 178  
Allen, Paul, 53, 69, 87, 95–98, 100  
Alright, R. E., 9  
ALOHA, 108  
ALOHAnet, 108–109  
Altair 8800, 53  
Alto, 54, 63, 66–67, 71–72, 106, 183, 186  
Andreesen, Marc, 2, 120  
Anode, 34  
Apple, 53, 55, 67–69, 70–72, 87, 183  
Archetypal, 2  
Archimedes, 2  
Artificial Intelligence (AI), 3, 11, 23, 91, 101, 150, 158, 163, 168, 170–171, 173, 176, 186  
ARPANET, 60, 107–108, 113, 116, 118, 124, 186  
Audion, 34
- Babbage, Charles, 77  
Backrub, 41  
Bardeen, John, 31, 39, 40–42, 47  
Basic, 70  
Bechalsheim, Andy, 16
- Bell, Alexander Graham, 2  
Berners-Lee, Tim, 119, 120–127, 150–153, 186  
Boggs, David, 104, 108–109, 111  
Bohr, Neils, 140  
Bombe, 36–36  
Brattain, Walter, 31, 39, 40–42, 47  
Brin, Sergey, 4, 11–16, 19, 27  
Bronowski, Jacob, 1  
Bush, Vannevar, 56–57, 81, 122
- Campbell, Joseph, 1  
Cathode, 34  
Cerf, Vinton, 116–118, 126  
Chapman, Charlie, 55  
Collector, 41  
Conditional Control Transfer, 79  
Conseil Européen pour la Recherche Nucléaire (CERN), 119, 121, 123–125  
CP/M 70, 198  
Crossbar latch, 51
- Database, 22  
Davy, Humphrey, 8  
de Forest, L., 31, 39  
Deep Blue, 157, 170  
Delpi Method, 2, 9, 10  
Dertouzos, Michael, 142, 145, 153

- Descartes, René, 155  
 Diode, 33  
 DNA Computing, 74  
 “Don’t Be Evil”, 11
- Eckert, J. Presper, 36–38, 47  
 Edison, Thomas, 3, 5, 9, 31–33, 47  
 Edison Effect, 8, 34, 35, 47, 48, 184  
 Einstein, Albert, 40  
 Emergent Fifth Generation Language (5GL), 83–4, 91  
 Emitter, 41  
 Engelbart, Douglas, 56–57  
 ENIAC, 36–38, 47  
 Enigma, 35  
 Enquire, 121, 123  
 Ethernet, 63 72, 103, 105, 106, 109, 110–111
- Fertile Crescent, 55  
 Feynman, Richard, 40  
 Field effects transistor (FET), 49  
 Filo, Dave, 16  
 First Generation Computer, 36  
 First Generation Languages (1GL), 75, 82  
 Fleming, John Ambrose, 8, 31–34, 47  
 Flory, Paul, 6  
 Froogle, 18, 26  
 Fuller, Buckminster, 30
- Gates, William H. III, 17, 53, 69, 76, 87, 94–98, 100, 174  
 GBrowser, 28  
 GMail, 18  
 Gödel, Kurt, 155, 158–159, 160, 167, 171  
 Google, 4, 21, 25–26, 29, 143, 153, 172, 184  
 Google Base, 18  
 Google Book Search, 18  
 Google Earth, 18  
 Google Maps, 26  
 Google Mobile, 28  
 Google Net, 18  
 Google News, 26  
 Google TV, 28  
 Google Zietgeist, 17  
 Googleplex, 17  
 Googleware, 4, 12, 20, 27  
 Googling, 12  
 Googol, 15
- Harris, S., 7, 51  
 Heisenberg, Werner, 40  
 Henry, Joseph, 6  
 Hoare, C. A. R., 75–76, 85–87, 100  
 Homer, 2
- Hypertext Markup Language (HTML), 14, 91, 119, 124, 126, 156, 168, 184  
 Hypertext Transfer Protocol (HTTP), 119, 124, 126, 184
- Industrial Revolution, 17  
 Information Revolution, 3, 20, 21, 143, 158, 178–179  
 Information Superhighway, 21, 30  
 Information Technology (IT), 104  
 Integrated circuit (IC), 31, 41, 43–44  
 International Technology Roadmap for Semiconductors (ITRS), 47  
 Internet, 21, 30, 114, 120, 186
- Jobs, Steve, 53, 67, 68
- Kahn, Herman, 117  
 Kasparov, Garry, 157, 178  
 Kay, Alan, 61–62  
 Kilby, Jack, 31, 43, 47  
 Kildall, Gary, 70–1, 98  
 Kurzweil, Ray, 28, 155, 173–177, 180–181, 186
- Lampson, Butler, 62  
 Large scale integration (LSI), 44  
 Large-scale software systems (LSS), 88  
 Laser printer, 72  
 Law of Accelerating Returns, 177, 183  
 Licklider, J. C. R., 59, 60–61, 65, 115  
 Linux, 16, 99, 105  
 Local area networks (LANs), 111, 131  
 Lovelace, Ada, 77
- Mauchly, John, 16, 37–38, 47  
 Memex, 56–57, 122  
 MEMS/NEMS, 73, 158, 167  
 Metcalfe, Robert, 94, 103–109, 110–111  
 Michelangelo, 27  
 Microchip, 3, 30–31, 41, 45, 48–49, 143, 183  
 Minsky, Marvin, 156, 158, 165–167, 171  
 MIT, 60–61, 80, 107–108, 115, 124, 145–146, 166, 176  
 Moore, Gordon, 31, 45  
 Moore’s Law, 3, 30–32, 36–37, 45–49, 73, 88, 99, 102, 169, 183–4, 186  
 MS-DOS, 71  
 Multicast Backbone, 120
- Nanotubes, 50  
 Nanowires, 50  
 Natural language processing, 150

- NeXT, 124  
 Noyce, Robert, 31, 43–44
- Object oriented programming, 83  
 Ontology, 152
- Packet, 115, 117–118  
 Page, Larry, 4, 11–16, 19, 27, 131, 143, 156, 184  
 PageRank, 25  
 Palo Alto Research Center (PARC), 3, 54–55, 58, 61–62, 65, 67–68, 72, 93–94, 98, 104, 106–107, 111, 124, 132–134  
 Pasteur, L., 6  
 Patterns of Discovery, 4  
 Perfect search, 4, 11, 27, 29  
 Polysemy, 24  
 Project Oxygen, 142, 145–148, 153  
 Ptolemy II, 113
- Quantum computing, 52
- Resource Framework Description (RDF), 128, 151–152  
 RFID, 167, 172  
 Roberts, Ed, 94  
 Rogers, Kevin, 121  
 Russell, Bertram, 160
- S-shaped curve, 2, 8, 9, 46  
 Schmidt, Eric, 19  
 Search for Extraterrestrial Intelligence (SETI), 112, 169  
 Searle, John R., 163–164  
 Self-organizing systems, 102  
 Semantic Web, 22, 28, 127–128, 144–145, 150–152, 172  
 Shannon, Claude, 76, 80–81, 100  
 Shared Programming Technique, 79  
 Shockley, William, 31, 39, 40, 42, 47
- Simonyi, Charles, 66–67, 76, 92–94, 107  
 Singularity, 175, 181  
 Starr, J. W., 8  
 Stuart, J., 8  
 Synonymy, 24
- Taylor, Bob, 56, 59, 60–62, 65, 116  
 TCP/IP, 91, 110, 117–118, 168, 184  
 Thacker, Charles, 63–65  
 Toffler, Alvin, 174–175  
 Torvalds, Linus, 76, 99, 100  
 Transistor, 3, 30–31, 45, 48–49, 183  
 Turing, Alan, 156, 158, 106–105, 167, 171  
 Turing test, 160–164
- Ubiquitous computing, 130, 132, 144, 184  
 Ubiquitous intelligence, 3, 4, 11, 29, 130, 156–157, 167–168, 172, 184  
 Ubiquitous Web, 130, 142–144, 154  
 Undecidability, 158  
 Uniform Resource Identifier (URI), 29, 119, 124–126, 144, 151  
 UNIVAC, 38–39, 77  
 UNIX, 99, 105, 169
- Vacuum tube, 3, 30–31, 33, 41, 45, 47–49, 183–184  
 Very large scale integration (VLSI), 44  
 Von Neumann, John, 76, 78, 80, 100, 180
- Weisner, Mark, 129, 133–135, 139  
 Windows, 71, 105  
 World Wide Web, 4, 119, 120, 142, 156  
 World Wide Web Consortium (W3C), 120, 125–126, 144, 150  
 Wozniak, Steven, 53, 68
- eXensible Markup Language (XML), 128, 152  
 Xerox, 54, 58–59, 64

