

Index

- Abelson, Harold 224
abstractness 150, 175, 192, 215
actors 98, 99, 111, 231
Ada 179, 201, 206, 212, 218
Addison, Joseph 27
accounting 194
accumulators 195
advertising 117
Africa 40, 224
aircraft 69, 101, 118, 130, 139, 142, 234
Aiken Lab 226
aikido 179
Alberti, Leon Battista 3
Algol 156, 187
aliens 167
Altair 82
Amazon 74
America 1, 14, 53, 111, 119, 230
American Gothic 138
American-ness 53, 55
Americans 41, 117, 216
Anderson, Ken 198
anger 36, 60
 Fra Angelico 143
 Anglo-Saxons 113
Ansi Common Lisp 177
ants 90
Antarctica 90
antibrands 44
APIs 78
APL 153
Apple 24, 57, 63, 111, 115, 119, 228
Apple II 77
applets 227
apprentices 11, 12
Arc 161, 162, 236, 241
architects 19, 131, 136, 203, 217, 218
architecture 19, 135, 138, 152
aristocracy 113
artificial intelligence 20, 121, 157, 173
ASPs 56, 227
assembly language 146, 186
asymmetry 138
atheism 43
Athens 231
athletes 2, 98, 111, 111, 137, 231
Austen, Jane 33, 134, 219
axioms 118, 133, 156, 157, 189
Azurara, Gomes Eannes de 224
Back button 72
backups 60
Ball, Lucille 20
Balzac, Honoré de 115, 232
barriers to entry 102, 178
Fra Bartolommeo 144
baseball 111, 231
Basic 149, 177, 228
basketball 111, 111, 231
Baskin-Robbins 115
Bauhaus 137, 144
Bayesian 121
B&D languages 151
bears 103
Mrs. Beeton's Book of Household Management 117
bell-bottom jeans 35
benchmarks 71
big bang method 212
big companies 23, 27, 68, 69, 76, 82, 85, 96, 100, 101, 102, 103, 119, 171, 163, 228, 229
billing 73
billionaires 89
biology 43
Blackwell, Trevor 61, 213, 227, 228
Blub 176
board meetings 24, 67
books 99, 115, 203, 223
boredom 10, 14, 24, 221
Borgognone, Ambrogio 109
bosses 96, 107, 201
Botticelli, Sandro 143, 144
bottlenecks 105, 208
bottoms 151
bottom-up programming 162, 192
brand 44, 102, 116, 223
Brasilia 206
bribery 111, 114, 232
Bricklin, Dan 228
Brooks, Frederick 70, 193
Bruegel, Pieter 136, 142
Brunelleschi, Filippo 143
Bruno, Giordano 224
bugs 59, 63, 65, 70, 78, 81, 141, 147, 148, 185, 213, 227, 236
buffer-overflow attacks 151, 234
bullies 6, 101, 107
byte code 162, 209, 214
C 62, 149, 150, 151, 169, 171, 193, 198, 202, 205, 206, 207, 212, 218, 227, 235

- C++ 62, 149, 170, 180, 182, 193, 198,
227, 235
- Cadillac 44
- Cambridge, Massachusetts 39
- cars 44, 57, 92, 116, 117, 168, 230
- cash cows 80
- cattle 106, 110, 113
- Cecil, Robert 232
- Cecil, William 232
- censorship 46, 203, 224
- CEOs 96, 105, 111, 111, 132, 231
- Cézanne, Paul 138
- CGI scripts 62, 169, 173
- chance 90
- Chandler, Raymond 27, 109
- character 15
- Charles VIII 41
- checksums 127
- cheerleaders 1, 9
- chess 4, 109
- children 1–17, 39, 48, 91, 92, 109, 131,
137, 223, 225, 231
- China 113, 154
- Chomsky, Noam 45, 226
- Christmas shopping 76
- church, Catholic 36, 41
- Churchill, Winston 37
- Cisco 117
- citation 135
- civil liberties 54
- Civil War 12
- classes 152
- classics 170, 231
- Cliff's Notes 13
- clients 58, 79, 83, 226
- CLisp 162
- closed-form solution 137
- clothes 3, 9, 15, 34, 39, 81, 110, 223
- CNet 75
- Cobol 149, 155, 175, 177, 201, 202, 204,
218
- Cold War 108
- collaboration 30, 59, 82
- college 12, 94, 95, 223, 224, 225, 230,
233
- comments 224
- committees 23, 69, 214
- Common Lisp 162, 190, 195, 198, 204,
227, 234
- communism 117, 229
- compilers 31, 147, 165, 174, 188, 198,
200, 208, 224
- complexity xi, 140
- competition 3, 62, 71, 75, 80, 81, 82,
85, 97, 103, 105, 106, 122, 170,
172, 173, 179, 193, 195, 224, 227
- compression 192
- computer science 18
- conditionals 187
- confidence 9, 41, 213
- conformist test 35
- Conrad, Joseph 40
- consent, age of 38
- conservation laws 88
- conscience 6
- convenience 58, 116, 117, 219
- coolness 5, 33, 42, 183
- Cooper, Gary 41
- Copernicus, Nicolas 41, 130, 145
- coprophiles 41
- copying 26, 35, 51, 53, 139, 141
- copyrights 51
- core language 157, 160, 162, 167, 189,
201, 205, 215
- corruption 54, 90, 114, 115
- counterfeiting 90
- Counter-Reformation 41
- courtiers 14, 114
- crabs 103
- craftsmen 93
- Creation of Adam* 138
- creativity 133
- Credi, Lorenzo di 144
- Cro-Magnons 156
- The Crucible* 47
- cruelty 6, 7, 14
- cruft 30, 157
- cryptography 158, 173
- cubicles 117, 229
- curiosity 43, 51
- customer support—see support
- Daddy Model 109–113, 114, 230, 231
- data 53, 58, 60, 79
- Darpa 18
- Darwin, Charles 43
- day job 5, 25, 223, 228
- The Day of the Jackal* 173
- debugging 22, 65
- declarations 204, 208, 219, 234
- defeatism 37, 225
- Defense Department 76, 151
- delay 68, 105, 211, 214
- democracy 109, 118
- Descartes, René 47
- design patterns 199, 236
- design war 24
- development teams 70, 81, 172
- device drivers 57
- dirty words 40, 225
- disk crashes 58, 60
- dissatisfaction 141
- diversification 105
- DMCA 45, 52
- doctors 12, 205, 217, 231, 236
- DoD—see Defense Department
- dollar 91
- Donatello 143
- DOS 54, 89
- drawing 3, 136, 137, 141, 220
- drugs 15, 51
- duct tape 50
- Dürer, Albrecht 33, 133, 135
- Dutch, the 47, 100, 232
- Earth
movement of 34
shape of 111, 231

INDEX

- eccentricities 9, 51
- Edison, Thomas 107
- education 117, 233
- efficiency 71
- Eiffel Tower 138
- eighth grade 7, 16
- Einstein, Albert 142, 144
- electricity 109
- Ellison, Larry ix
- Emacs 188, 202
- email 58
- embedded languages 165
- empathy 30, 224
- Enigma 173
- engineering 19, 97, 139
- England 53, 107, 114, 119, 226
- English, the 41
- engraving 33, 133, 135
- envy 2
- Eratosthenes 231
- Erickson, Jonathan 154, 190
- essays 160
- Euler's Formula 142
- Europe 53, 108, 115, 154
- eval* 162, 184
- evolution 27, 43, 73, 126, 155, 188, 206, 228
- executives 86, 96
- Expedia 190
- expertise 12
- expressions 187, 196
- expressionism 133
- Fabian Society 231
- faces 136, 137
- fakeness 10, 51
- false positives 122
- farms 12, 12, 110
- Farnsworth, Philo 102
- fashion 4, 9, 34, 41, 48, 132, 133, 136, 182, 225, 227
- fast food 13
- FBI 51
- fear 42, 53, 69, 79, 105, 225
- feudal system 107, 113
- Fight Club 45
- fighter planes 69, 107
- filters
 - email 121–129
 - Web 48
- Florence 53, 100, 108, 143
- flowcharts 167
- focus groups 71
- football players 1, 14, 132
- Ford, Henry 120
- Forsyth, Frederick 173
- Fortran 149, 150, 153, 156, 186, 187, 198, 201, 202, 234
- France 53, 119, 144, 173
- Franklin, Benjamin 27
- Frankston, Bob 228
- freaks 15
- free speech x, 34–49
- FreeBSD 79, 94, 149, 191
- freeware 73, 203
- French, the 47
- Feynman, Richard 50, 53
- Forbes 400 89
- functions 187, 196
- functional programming 66, 207
- gait 3, 142
- Galilei, Galileo 34, 36, 41, 224
- garbage collection 179, 187
- Gat, Erann 194
- Gates, Bill ix, 8, 86, 89, 114
- Geneva de' Benci* 28
- girls 2, 40
- Giotto 145
- genes 143
- genetic algorithms 140
- Genoa 113
- Germany 35, 37, 53, 119
- geography 108
- Ghiberti, Lorenzo 143
- glue programs 189
- Gödel, Kurt 135
- Goo 236
- Google 228
- Gosling, James 182
- goto 167, 186
- Greenspun's Tenth Rule 198, 235
- growth 72, 108, 171, 212
- guerillas 102
- Guggenheim Museum 141
- gypsies 225
- hack 50, 145
- hackability 204
- hackers
 - aims of 20
 - American-ness of 55
 - appealing to 78, 107, 200
 - becoming 169
 - and civil liberties 54
 - as craftsmen 93
 - definition of 50
 - design sense among 23, 85
 - elite 93, 201, 223, 228
 - freelance 115
 - hiring 181, 190, 191
 - as language designers 165
 - laziness of 203
 - salaries of 87, 111
 - skepticism of xi, 213
 - as users 224
 - young 51, 150, 213
- Hail Mary strategy 220
- Hardy, G. H. 130, 133
- Harvard 39, 226, 228, 233
- hash tables 161, 187
- hate speech 48
- headers 122, 126
- health 88, 110
- hello-world program 204, 236
- heresy 1–250
- hierarchy 6, 13
- high-level languages 31, 147, 174, 175, 179

- hijacking 234
- Hitchcock, Alfred 136
- hedge funds 50, 98
- Henry VIII 113, 232
- Hewlett-Packard 24
- high school 1–17, 142, 177, 233
- Hitler, Adolf 42
- Holland 47, 230, 232
- home schooling 223
- Hoover Dam 206
- hormones 11
- horses 116, 120
- Hotmail 56
- houses 110, 117
- House Un-American Activities Committee 47
- housing projects 218
- HTML 82, 122, 228
- HTTP 82, 228
- Hugo, Victor 13
- humans 30, 134, 136, 221
- humor, sense of 47, 53, 136
- hunting 6
- IBM 52, 54, 79, 80, 89, 202
- IBM 704 185, 235
- ideas
 - bad 54, 69
 - new 46, 51, 68, 186, 216
- identity 11, 94
- idiots 44, 218
- idleness 11, 117
- imagination 13, 45, 50, 145
- imitation 41, 141
- income, distribution of 109–120, 232
- incompatibility 59, 175, 190, 214
- indentation 29, 167, 245
- Industrial Revolution 107, 114, 230
- industry best practice 194
- informality 80
- inheritance 90, 106
- innovation xi, 43, 51, 100, 101, 107, 108, 154, 189, 194, 213
- inspiration 29, 107, 213
- Inquisition, the 224
- installation 59, 119, 149, 207
- institutions 94
- integrity 15
- Intel 73, 78, 117, 191, 234
- intellectual property 51, 55
- intelligence 3, 32
- interfaces 30, 214
- Internet ix, 74
- Internet Bubble 103, 220, 227, 229
- interpreters 148, 162, 185, 198, 209, 235
- intranets 74, 76
- Intuit 71
- inventors 100, 211, 230
- investors 68, 104
- IPL 236
- iPod 53, 228
- ISPs 61, 74, 226
- Israel 45
- IT 75, 180
- Italy 119, 230
- ITA Software 190, 193, 195
- Japan 53, 225
- Java 149, 151, 155, 169, 180, 181, 182, 183, 198, 201, 202, 204, 218, 227, 236
- Javascript 122, 196, 202, 228
- Jefferson, Thomas 55
- jobs 94, 132
- job listings 179
- Jobs, Steve ix, 52, 100, 111, 114, 119
- Johnson, Kelly 130, 133
- Johnson, Samuel 21, 223
- jokes, practical 54, 135
- Jordan, Michael 28
- junior high school 1, 7
- justice 93, 112, 231
- Kernighan, Brian 203
- kid culture 5, 7
- Knuth, Donald 208
- Kuhn, Thomas 130
- labels 37, 46, 48, 224, 225
- Labor Party 107
- ladies-who-lunch 8
- lapdogs 11
- Laffer Curve 54
- land 106, 113, 115
- larval startups 77, 212, 228
- latency 58
- Latin 170
- laws 52, 107, 128
- layers 162, 214, 215
- legacy software 201
- legibility 134
- Lego 135
- Lenin, Vladimir Ilich 117
- Leonardo 28, 30, 109, 131, 137, 141, 143
- leverage 97, 100, 108
- lexical closures 175, 179, 195, 197, 235
- libraries, code 153, 162, 167, 175, 182, 189, 190, 191, 201, 207, 215, 234
- licenses 86, 89
- libertarians 93
- light bulbs 107
- Linux 79, 149
- Lions, John 27
- Lippi, Filippo 143
- Lisp 62, 142, 149, 150, 153, 161, 169–199, 201, 202, 205, 218, 219
- lists 160, 161, 236
- literature 43, 165
- litmus tests 46
- little languages 165
- lock picking 50, 51, 226
- Lord of the Flies* 5
- Los Altos 52
- Louis XIV 14
- low countries, the 47, 230
- LPs 53
- luck 89, 103
- Ludendorff, Erich 37

INDEX

- machine language 146, 174, 175, 218, 228
- macros 166, 177, 179, 188, 190, 199, 219, 235
- madonnas 145
- managers 62, 103
- marble 219
- marijuana 15
- maps 35
- marketing 68, 85, 97, 105, 212
- marriage 90, 106, 117, 232
- Masaccio 143
- masculinity 159
- mass production 116, 117
- mastery 50
- mathematics 32, 108, 130, 186, 218, 225
- mathematicians 9, 18, 157, 203
- mathematical notation 23, 158, 184
- math envy 22
- McCarthy, John 162, 183, 188, 189
- McDonald's 101, 150
- Macintosh 31, 78, 228
- mainframes 77, 80, 83, 190, 202
- Manhattan 8
- Manhattan Project 50, 144
- Mannerism 142
- manufacturing 95, 107, 113, 226
- Maxim* 205
- Mazarin, Jules 55
- MD 12
- measurement 96–100, 105, 108
- medieval Europe 107, 230
- medium of exchange 91, 229
- medium of expression 19, 33, 141, 219, 220
- meetings 70, 103
- metaphors 25, 47
- methods 152
- Michelangelo 11, 30, 142, 143
- Microsoft x, 24, 56, 78, 79, 86, 89, 148, 190, 223, 228
- Microsoft Windows 60, 78, 148, 170, 189, 190, 202
- Microsoft Windows NT 191
- middle class 107, 113
- Mihalko, Lawrence 13
- Milan 143
- Miller, Arthur 47
- Milton, John 45
- mines 106, 231
- Les Misérables* 13
- mistakes 27, 35, 132, 141, 213, 219
- MIT 50, 130, 179, 202
- median language 179, 188
- merchants 101, 107
- meta-labels 46
- mob psychology 6, 48
- modernism 134, 138, 203
- modules 30, 214
- monasteries 113, 232
- money 51, 90, 91, 110, 229
- Mongols 11, 35
- monopolies 24, 90, 111, 170, 230
- Montefeltro, Federico da 33
- moods 48
- Moore's Law 158, 210
- morale 29, 68, 221, 230
- Morris, Robert 51, 56, 169, 213, 227, 235
- mosaics 138
- mosquitos 103
- motives, criminal 51
- movies 98, 111
- Multics 52, 212
- murder 39, 173
- music 9, 25, 53, 138
- museums 26, 131
- The Mythical Man-Month* 70, 193
- Nash, John 9
- natural selection 43
- nature 4, 138, 139
- navigation 100
- Neanderthals 156
- negativity 225
- neighborhoods 117
- New York 8, 53
- The New Yorker* 144
- Netscape 56, 85
- nihilism 11
- noblesse oblige* 14
- Norvig, Peter 236
- novels 25, 33, 109, 115, 117, 134, 138, 219
- numbers 161, 174
- nutshape 238
- Oak—see Java
- object code 31, 148, 152
- object-oriented programming 162, 197, 199, 207
- oil paint 27, 141, 220
- open design 215
- open-mindedness 47
- open source 25, 27, 94, 141, 148, 153, 165, 223, 228
- operating systems 57, 62, 78, 119, 151, 190, 191
- optimization 71, 105, 162, 164, 168, 214, 214
- Oracle 180
- Orbitz x, 190
- O'Reilly 203
- originality 141
- organic growth 212
- ornament 133
- orthogonality 135, 205, 215
- ostracism 7, 34, 144
- outsiders 6, 52
- outsourcing 75, 227
- ownership of code 30, 69
- pain 16, 88, 136
- painting 22, 27, 33, 133, 136, 141, 218, 223
- Pantheon 135
- parallel computation 163
- parents 4, 12, 40, 42, 109, 110, 131, 225
- parentheses 173, 177
- Parkinson's Law 81, 210
- parse trees 166, 177, 188

- parties 4, 120
 patches 57, 163
 Pascal 149, 150, 205
 pastoralists 113
 Patek Philippe 116, 232
 patents 51, 102
 PC standard 89
 PDAs 58, 228
 peer review 149
 penicillin 94
 pep rallies 9
 Perl 32, 62, 149, 150, 151, 153, 165, 169, 170, 175, 180, 183, 190, 195, 198, 201, 202, 204, 206, 207, 227, 228, 235
 persecution 5
 persistence 210
 PhD 12, 20, 43
 PHP 202
 photography 223
 Photoshop 58
 physics 22, 38, 87, 134, 166
 physicists 19, 144
 pianists 137
 piecework 97
 Pie Fallacy 91
 Piero della Francesca 33
 piracy 73, 113
 Pisa 113
 planning 68
 pointers 167, 187
 pointy-haired boss 88, 179, 181, 189, 190, 194, 195, 235, 236
 political correctness 39, 46, 47
 politicians 6, 37, 91, 93, 108, 114, 230
 polymorphism 198
 pornography 48, 128
 Porsche 911 135, 141
 portraits 136, 137, 223
 ports 113
 portability 148, 209
 portals 103, 229
 Portuguese, the 224
 Post Office 88
 power plants 101, 109
 PR ix, 56, 64, 212, 228, 230
 premature design 27
 premature optimization 27, 106, 160, 164
 Pre-Raphaelites 141
 press, the 50, 56, 64, 89, 224
 prestige 33, 218
 prices 25, 76, 112, 172, 231
 price discrimination 73, 227
 prigs 39
 Princeton 233
 prisons 8, 13
 probability 124
 processors 78, 82, 101, 108, 163, 164, 232
 product managers 23, 85
 productivity 20, 86, 88, 93, 103, 111, 115, 116, 229, 229
 professors 43, 165, 170, 230
 profiling 165, 208, 209, 214
 profitability 71, 105, 172, 174, 229
 Prolog 150
 proofs 133, 135, 138, 218, 219
 property 51, 55, 107, 113, 149
 prototypes 77, 141, 220, 228
 pseudocode 168
 puberty 11
 Python 62, 149, 165, 167, 169, 175, 180, 183, 188, 190, 196, 198, 199, 202
 QA 63, 67, 149
 quartz movements 116
 Quicksort 186
 Rabin, Michael 54
 race 6, 37, 108
 radiologists 37
 RAID 61
 Raphael 141
 rapid development 172, 224
 Raymond, Eric 169, 176
 RCA 102
 real income 232
 real world 1, 8, 110
 rebelliousness 14
 recursion 138, 161, 177, 187, 235
 redesign 140, 212
 regular expressions 161
 relativism 132, 224
 relativity 50, 142, 144
 releases 59, 62, 68, 81, 148, 172
 relentlessness 28
 religion 108, 134, 179, 235
 Renaissance 11, 53, 144, 154, 220, 230
 Renaissance Man 3
 repetition 138, 211
 reporters 93, 106, 230
 representational art 42
 research 20, 153, 165, 216
 research papers 19, 66, 165, 166
 reservations x, 190
 response time 58, 210
 responsibility 81, 96, 194
 retail 74, 101
 reusability 162
 revenge 51
 revenues 8, 72, 106, 171
 Ricardo, Ricky 20
 rich, the 89, 92, 93, 114, 116, 117, 120, 233
 Rich, Ben 130
 Richelieu, Cardinal et Duc de 55
 RISC 179
 risk 98, 104, 190, 228
 Ritchie, Dennis 52, 203, 242, 250
 Roberts, Ed 82
 rockets 2, 107
 Romanticism 142
 Rome
 city 206
 empire 111, 231
 Roos, Thomas 232

INDEX

- RTML 66, 71
- Ruby 165, 183, 195
- rule breaking 50
- Russell, Steve 185, 188, 235
- Saarinén, Eero 135
- Sabre x
- salaries 87, 95, 231
- Salem witch trials 47
- salesmen 75, 85, 96
- Santa Clara 108
- Santa Claus 40
- Scheme 236
- Schwartz Communications 228
- sciences 32, 135, 218
- scientists 43, 94, 131
- Scientology 45
- scripting languages 71, 202
- security 55, 61, 75, 148, 227, 233
- self-censorship 37
- serfs 106, 113, 118
- servants 116, 230, 231
- server farms 60
- SET 191
- SETI@home 167
- sex 51, 125
- sexiness 107
- sexism 37
- s-expressions 188
- Shakespeare, William 33, 112, 136, 223, 224
- shipbuilding 100
- shipping 95, 113
- Shivers, Olin 166
- shoes 41, 201
- Silicon Valley 53, 108
- silver 91
- simplicity 85, 133, 137, 138, 198
- simulations 158
- Sistine Chapel 30
- sketches 22, 27, 141, 220
- skirmishers 46
- Skunk Works 144
- slang 9
- Slashdot x, 51, 183
- slaves 106, 111, 124, 224, 231
- Smalltalk 149, 195, 218
- Smith, Adam 229
- social distinctions 117
- solipsism 31
- software engineering 19, 205
- sorting 167, 186
- source code 148
- Soviet Union 42, 107, 108
- Spacewar 235
- spaghetti code 163
- spam 121–129
- SpamAssassin 124
- specialization 12, 109
- specifications 27, 160
- speculation 90, 110
- speech codes 224
- spinal cord 138
- spreadsheets 78, 82, 147
- SR-71 142
- Stalin, Joseph 42
- standardized tests 2, 20
- standards 73, 89, 181, 191
- startups
 - as way to get rich 87–108
 - advantages of—see big companies
 - interesting software at 24
 - all-or-nothingness 80, 104, 170
 - vulnerability of 77, 103, 171
 - secrecy in 173, 235
 - gauging competitors of 179
 - selling 69, 105
 - in microcomputer era 77, 80
 - starting 84, 100, 212
 - development strategy 220
 - uninterruptability at 229
- statements 187, 196
- stealth planes 108
- Steele, Richard 27
- still life 133
- strangeness 142
- stress 60, 73, 81, 82, 84, 88, 107
- strings 160, 207, 235
- Structure and Interpretation of Computer Programs* 31
- style 142
- subjectivity 131
- subroutines 186
- subscriptions 72
- suburbia 10, 11, 40
- success, secret of 31,
- succinctness 27, 133, 166, 192, 203, 214
- suicide 2, 11
- Sullivan, Louis 137, 233
- Summers, Lawrence 46
- Sun 73, 183, 191
- support 66, 119, 227
- surprise 173
- Sussman, Gerald Jay 224
- suits
 - gorilla 25
 - law 45, 102
 - reign of, at Apple 228
 - salesmen's 76
 - technical decisions by 74, 192
- SUVs 159
- sweatshops 97
- symbols 187
- symmetry 138
- syntax 173, 177, 188, 214
- system administration 75, 169, 206
- system administrators 57, 70, 75, 81, 207, 226
- taboos 34–49, 225
- tact 15
- taste 20, 23, 85, 130–145, 223, 229
- taxation 54, 91, 107, 113, 119, 232
- Tcl 202
- teachers 8, 13
- telephones 58
- tempera 141
- testability 12

- test-drives 59, 72, 180
- theater 25, 33
- theft 90, 106, 110, 113, 227
- theory of computation 21
- threads 210
- throwaway programs 175, 206
- timelessness 133
- Times Roman 134
- Timex 116, 232
- Tk 202
- toilet seats 76
- top-heavy languages 153
- tools 116, 170, 193, 201, 205
- toplevel 214, 219
- torture 6, 7, 224
- totalitarianism 42, 54
- towns 10, 107, 113, 230
- tractors 115, 120
- Travelocity 190
- trickle-down effect 120
- trojan horse 202
- TRS-80 159
- Turing-equivalence 198, 235
- Turing machine 184
- two-cycle innovation engine 213
- typefaces 134, 220
- typing
 - dynamic 27, 151, 179, 187, 207
 - static 22, 151, 166, 204, 207, 208, 219
- ugliness 19, 21, 50, 65, 130, 133, 145, 198
- UIs—see user interfaces
- unconscious 137
- undergraduates 93, 94, 95, 114, 155, 230
- unhappiness 2, 11, 16, 117
- uninterruptability 229
- universal function 184
- Unix 27, 52, 61, 79, 169, 191, 202, 212
- upgrades 59
- upside 98, 104
- user interfaces 82
- users
 - advanced 66, 85, 211
 - unsophisticated 85, 221
 - number of 106, 174, 202, 210, 214
 - training 119
 - advantages of 201
- U.S. Government 51, 55, 91, 209
- variables 23, 151, 187
- Vasari, Giorgio 144
- VCs—see venture capitalists
- Venezuela 115
- Viaweb 23, 25, 56–86, 93, 101, 104, 169–180, 209, 211, 224, 225, 227, 228, 230, 235
- Viaweb Gold 76
- venture capitalists 62, 102, 105, 106, 191, 212, 230
- Verrocchio, Andrea del 30, 143
- versions 59, 64, 72
- version 1.0 26, 85, 106, 161, 164, 220
- violence 48
- viruses 60
- VisiCalc 78, 83
- Visual Basic 189, 198, 202
- visual perception 37, 134, 136, 137
- VRML 211
- Wall, Larry 153
- Wal-Mart 101
- Walton, Sam 101
- war 31, 37, 46, 106, 108, 113, 154, 173
- Washington, George 55
- waste 159
- watches xi, 116, 232
- web-based software 56–86, 169, 171, 190, 209, 227, 228
- web consultants 76, 115
- web devices 83
- wealth 54, 87–120, 229
- wealth, secret of 97
- White, E. B. 84, 212
- whitelists 126
- Wiener, Norbert 9, 124
- wild animals 137
- William I 113
- Windows—see Microsoft Windows
- Womb Chair 135
- Woods, William 162
- Wooster, Bertram 117
- Wootton, Henry 45
- word processor 24, 147
- working dogs 11
- World War II 37, 42, 108, 206, 225
- Worse is Better 220
- Wozniak, Steve 52, 114, 119
- Wright Flyer 234
- Wright, Frank Lloyd 141
- writing 2, 133, 137, 138, 212, 219, 223
- wysiwyg 173
- Xerox Parc 144
- XML 167, 188, 236
- Yahoo 23, 61, 78, 82, 85, 94, 104, 117, 174, 235
- Yahoo Store 56, 64, 174
- Yahoo Shopping 174
- yellowism 44
- Yugo 153, 234
- Yugoslavia 18
- zealots 46
- Zimbabwe 113
- zone, the 138

1984 48