Index

1950s 4, 9
1960s 4, 9, 11
1970s 11, 14, 20, 72, 87
1980s 22, 55, 60, 173, 261, 419, 422, 405, 411, 428
19th century 175
2000s 206, 261, 337
3G mobile 386

abuse of
  dominant position see competition rights 189
access 373–92
  content being restricted by access to networks? 121–41
  ‘open access’ 126
  people with disabilities 365
to
  blocking systems 277–382
  Knowledge, movements 201, 202
accountability 146, 99–119
  blocking 292–4
  data protection 223, 232, 240–41
activism
  see political activism; see also technical activism
addressing 52–68
compatibility 60–61
protocols
  BGP (Border Gateway Protocol) 54, 61
  IPv4 53, 55, 59, 60, 63, 68
  depletion 60
  legacy holders 63
  IPv6 18, 38, 53, 60, 61, 63, 66, 144
  migration to 63
advertising see Google, AdWords; see social media
Affirmation see ICANN
Africa 273, 436
AfriNIC 56

  data protection 226, 227, 231, 239, 249–50
  ECOWAS 227–8, 232
  see also Cape Verde, Benin, Burkina Faso, Djibouti, Ghana, Kenya, Senegal
aggregation see routing
Albania
  data protection 225, 255
Amazon 212, 327
Andorra
  data protection 225, 239, 255
  anonymity 401, 402–4, 406
  see also identity; WikiLeaks
anorexia sites 296
anti-piracy
  blocking and mission creep 295–6
  anti-terrorism 261, 263, 265, 269, 280, 296
AOL 126, 461
  child protection policy 280, 281, 288–9, 296, 297, 298–9
  privacy issues 289
  Time Warner 420
APEC (Asia-Pacific Economic Cooperation) 229, 231–2, 241, 243, 244, 249, 250
APNIC see registries
Apple 373
Argentina
  data protection 225, 231, 239, 255
ARIN 56
ARPA 4, 5, 23, 23
ARPANET 5–13, 173
ASEAN (Association of Southeast Asian Nations) 264
  data protection 226, 227
AT&T 12, 126, 403, 432, 437
Australia
  child protection 283
  cybercrime 183
  data protection 223, 225, 226, 231, 232, 239, 243, 245, 246, 255
Research handbook on governance of the internet

Funkfeur network 209
Austria 433
cybercrime 183
data protection 225, 255
Azerbaijan
data protection 225
Bahamas
data protection 225, 226, 255
bandwidth 419–39
  caps 428–9
  congestion 127–8, 129, 419–39
banks, security
  New Zealand initiative 466
Baran, Paul 4, 5, 15, 16
Barlow, John Perry 21, 204, 391
BBC 438
  iPlayer 300, 424, 429
Bebo 310
behaviours see ‘net effects’
Belarus
  data protection 226
Belgium
  cybercrime 183
  data protection 225, 255
  Reseau Citoyen network, Brussels 209
Benin
  data protection 226, 232, 255
BEREC (Body of European
  Regulators for Electronic
  Communications) 433, 434
Berne Convention see copyright
Bill of Rights 353–70
  see also data protection, human
  rights, privacy
biometrics 267, 269, 271
Bing 283
  child protection 283
BITAG 431–2
BITNET 6
  ‘blacklists’ 285–6, 287–8, 301, 452, 460–61
  of contract terms 336
  out of date, Denmark 291
  see also Spamhaus
blocking 122, 277–382
  accountability 292–4
  procedural fairness (lacking) 294
techniques 281
  DNS filtering 285, 292
  ‘poisoning’ 281
  hash value matching 278, 281, 287–90
  hybrid URL blocking 281
  IP number blocking 35
  over-blocking 295
see also censorship; filtering
BluRay 379
books see Google Books; Project Gutenberg; Open Content
  Alliance
Bosnia & Herzegovina
  data protection 225, 255
  botnets see security
brand
  protecting brand via security
  measures 470
Brazil 190
  data protection 226, 227
  internet civil rights bill 190
  breach of confidence 377
British Telecom see BT
broadband
  access to for content providers 121–41
  bandwidth and congestion 127–8, 129, 419–39
  US FCC Notice of Proposed
  Rulemaking 2009 121
browse-wrap licences 174
  see also click-wrap; EULAs; shrink-
  wrap; web-wrap
BT 282–3, 296, 301, 422, 435
  action against BT by Motion Picture
  Association of America 296
Bulgaria
  data protection 225, 255
  bulletin boards (BBSs) 11
Burkina Faso
  data protection 226, 232, 255
CADNA (Coalition Against Domain
  Name Abuse) 36
CAIC see children, UK IWF (Internet
  Watch Foundation)
Canada
  biometrics 267
  child protection 280, 283
data protection 225, 226, 231, 232, 239, 246, 255
network neutrality 427–8, 430, 437, 430–31
social networks 314, 316, 325, 336, 339
Cape Verde
  data protection 226, 232, 255
CDNs see content
censorship 277, 283–4, 292, 296, 412, 437
  see also blocking; filtering;
  surveillance
Cerf, Vint 6, 8, 9, 19
CERN 7–9, 23
CERNET 8
CERTS see security
can children 277–382, 435
  child abuse image blocking 277, 279–302
Club Penguin 310
CSAADF filters 285
EU
  CIRCAMP see CIRCAMP
  Kids Online Project 310, 316, 318, 335, 337
UK
  CAIC list 278, 280, 281, 281–4
  Council for Child Internet Safety 335
  IWF (Internet Watch Foundation) 278, 295
US
  US hash value systems see blocking
Chile
  data protection 225, 239, 256
  network neutrality 419
China 178, 262, 277, 310, 379
  data protection 224, 227, 231
  source of internet security attack? 455
CIA offences (confidentiality, integrity, availability) 182
CIDR (Classless Inter-Domain Routing) see routing
CIRCAMP (COSPOL Internet Related Child Abusive Material Project) 278, 284–7, 290, 291, 295, 298–9
class actions 71, 79–80
Classmates.com 315
‘Cleanfeed’ 281–4, 290, 293, 296, 298–9, 301
click-wrap licences 174
  see also browse-wrap; EULAs;
  shrink-wrap; web-wrap
cloud computing 81, 152, 156, 336, 445
data protection 248
‘code as law’ 22, 277, 278, 290–91, 419, 420
governance in code? 203
  see also Lessig
social networks and privacy 321, 337–42
Cogent 437
Colombia
  data protection 225, 231, 239, 256
Comcast 426, 428, 430, 437
‘common carriage’ 423
community wireless networks 210–13
Communications Decency Act see USA
competition 148, 419, 423
  abuse of dominant position 381–5
  by raising court action 384
  by refusing to license a technology 383, 384, 385
access and network neutrality arguments 129
‘essential facilities’ doctrine 381
human rights 373–92
telecoms 422
  see also interoperability
Compuserve 6, 13, 14
Conficker 457
congestion see broadband
costal rights see Bill of Rights
content
  controlled by access to networks? 121–41
  priority delivery ‘lanes’ 128–30
  control see blocking; see children;
    see ISP liability
delivery networks 422, 424, 437–8
  see also ‘information goods’
contract
  bias of powers of intermediaries 412–13
  exclusive 121–41
internet dominated by contract 168
privity of contract 169
“secret”/opaque/invisible contracts and terms
intermediaries 403, 412–13
social networks 313–15
unfair consumer terms 171, 335, 336, 343
v statute 168–93
see also license contracts
conventions see ‘net effects’
copyright 67, 182
Berne Convention 80, 84, 188, 222
circumvention of copy protection measures 89–90
copyleft 12
Creative Commons 391
demise of copyright as we know it? 90–91
enforcement 424
EU Directives 182, 189
human rights conflict 376–7, 388
ISPs 279, 295
licensing
browse-wrap 174
click-wrap 87, 174
end-user license agreements (EULAs) 174–5, 179, 181, 187, 191–3
over-licensed? 187
shrink-wrap 87, 174
software 87, 174
terms of service 174
web-wrap 174
see Google Books
orphan works 78, 84–6
reform 73–6, 84–6
rights
clearance 84
Google Books replacing transfer of ownership to selling access? 86–9
to use 72
WIPO 89–90, 189, 222
WTO Treaty 182
see also DRMs; Google Books
co-regulation 161, 224, 279
see also regulation; self-regulation
corporate social responsibility 391
Costa Rica 376, 387
criminal law 277, 317, 452
fraud 452, 463–6
see also children; security; sex offences
Croatia 433
data protection 225, 256
Crocker, Steve 9, 19
cross-border
cooporation 301
privacy rules 231, 232
cryptography 83, 424
RPKI (Resource Public Key Infrastructure) 58, 64–8
see also electronic signatures
CSAADF (Child Sexual Abuse Anti-Distribution Filters) 285
CSIRTS (Computer Security Incident Response Teams) 452
CSNET (Computer Science Network) 6
cybercrime
Convention 182, 183, 266, 271, 454, 479
London Action Plan 479
see criminal law; see also security
Cyprus
data protection 225, 256
Czech Republic
data protection 225, 256
database
IWF (Internet Watch Foundation), url database 282
see EU, Database Directive; see also Google Books
data protection 221–5, 309–44
accountability 223, 232, 240–41
AFAPDP (French-Speaking Association of Personal Data Protection Authorities) 226
ASEAN 226, 227, 232
binding corporate rules (BCRs) 240
blocking systems 298–9
CBPR (cross-border privacy rules) 231, 232
cloud computing 248
ECOWAS 227, 232–3, 235
enforcement 222, 223, 224, 225, 228–32, 235, 236, 239, 240, 243–8
mandatory DPOs 240
mandatory DPIAs/PIAs 240, 246–7
PETs 240, 246
EU 236, 237, 330–32
2010 proposals 221
‘adequacy’ 222, 231, 238–9
Article 29 Working Party 237–8, 240, 244, 330, 331, 333, 338, 340, 390
blocking systems 298–9
CoE Convention 108 (1981) 169, 183, 230, 233–5, 239, 244, 250
Commission 230, 241–2
‘data controllers’ 331
‘data processing’ 330
‘data subjects’ 330
Lisbon Treaty 230
standards 229–35, 250
exports 238–9, 331
genetic data 243
see also biometrics; see also sensitive personal information
human rights overlap 223
IPR Enforcement Directive see intellectual property
Mercosur 227, 232
number of laws globally 225
OECD (Organisation for Economic Co-operation and Development) 53, 191, 221, 229, 230, 231, 233, 237, 240, 244, 265, 429
principles 235–43, 251, 331
core principles 236–8
emerging 241–3
sensitive personal data 331
see also biometrics; see also genetic data
self-regulation 222, 223
table of international laws 255–9
UN Treaty proposal 233
see also APEC; children; data retention; ID cards; see also under individual countries eg Sweden
data retention 209, 269–71
Davies, Donald 4–5, 7
DECNET 6
defamation 388, 402
deletion of profiles and of data 317, 412
see also data retention
Demon Internet 284
denial of service
distributed see security, DDoS
DENIC 175
denmark
child protection 280, 285
out of date blacklist 291
data protection 225, 256
design, technological 198–215
and generativity 202–3
Diaspora 342, 344
Digital Millennium Copyright Act see USA
digital rights management see DRMs
disabled users 365
Djibouti 274
DMCA see USA, Digital Millennium Copyright Act
DNS 28–40, 42, 44–5, 47, 65, 101, 189, 285, 292
DNSSEC 449
domain names 389
Coalition against Domain Name Abuse (CASNA) 36
gTLDs 34, 37, 39–43, 180
applicant process 37
.com 39
.ibm 39
cCTLDs 34, 43, 44–5, 175, 180
gTLD-MOU initiative 173
see also registries, regional
see also ICANN
DRMs 174–7, 189
Dubai
see Saudi Arabia
eBay 327
ebooks 86, 87, 88
see also Google Books
ECHR see human rights
economics
institutional 62–8
internet addressing 52–68
of security 445, 446–53
ECOWAS (Economic Community of West African States) 227, 232–3, 235
EE see Orange
Egypt 329, 374, 376
biometrics 267, 273
electronic signatures 181
‘end-to-end’ 17
end-user licence agreements see EULAs
enforcement see copyright; see data protection; see intellectual property; see police
Epslon 475
Estonia 374
data protection 225, 256
security
NATO Cyber Defense Center of Excellence 456
subject of internet attack 454, 455, 456
Ethiopia 273
EU
Access Directive 426
Authorisation Directive 186, 439
blocking systems 299
Charter of Fundamental Rights of the EU 223
child protection 278
data protection 225
Article 29 Working Party see data protection, EU
E-Commerce Directive 181, 184–5, 314, 402, 411, 434, 462
E-Signatures Directive 181
‘Europe 2020’ 143
Framework Directive see telecoms privacy
social networks 309, 311, 314, 329–30, 330–37, 342–4
Recovery Plan 143
Unfair Terms Directive 335, 336
Universal Services Directive (EU) 180, 185
see also data protection; see also ECHR; see also countries by name, eg Germany
EULAs 174–5, 179, 181, 187, 191–3
see also browse-wrap; shrink-wrap; web-wrap
child protection 280, 289, 297
features
‘Beacon’ 316, 327–8
Connect 340
‘Like’ button 328
newsfeed 316
Places 310, 341
HTTPS protocol 313
market valuation 312
problems
data disclosure see social media
data shelf-life 338–9
default settings 322
deletion of profiles 317
exposure of data to search engines 339, 341
opt-out v opt-in 316, 340
Oxford University student case 318–19
policy (terms and conditions) difficulty and opacity 323, 332, 343
see also social media
tabloid press 315
‘fairness doctrine’ 105
Faroe Islands
data protection 226, 239, 256
fibre management 419–39
FIDONET 11
file-sharing sites 296
filtering 280, 283, 434–5, 437
see also blocking
financial services providers
security 463–6, 476
fingerprinting 288, 267, 269, 273, 274
Finland
child protection 280, 285
data protection 225, 256
network neutrality 419, 425
Firefox 468, 469, 470
‘flaming’ 20
Flickr 325
Foursquare 310
France 18, 170, 376, 387
CNIL 226
data protection 225, 226, 256
network neutrality 425, 435
privity of contract 169
FRAND 421
fraud see criminal law
Freedom Box 342
freedoms
four ‘net freedoms’ 421
of commerce and IP ownership 150
of expression 150, 151, 277, 290,
292, 362, 376–7, 388
of information 362
of speech 178, 403, 420
see also censorship; rights
Friends Reunited 310
Funkfeur network, Vienna 209
future 143–64, 198
FYROM (Macedonia)
data protection 225, 256
gaming 154
licences 174
see also World of Warcraft
General Public License 12–13
Georgia
data protection 226
Germany 170, 433
cTLD 175
child protection 291
anti-blocking group, AK-Zensur
301
data protection 225, 245, 256, 277
network neutrality 425, 433
social networks 310
Ghana
data protection 226, 232
Gibraltar
data protection 225, 256
globalization 147, 260–74
Google 475
Adwords 327
child protection policy 280, 283
Circle 342
Dashboard 344
Google Books 71–93
Book Rights Registry 79
business model 80–84
books as ‘services’ not ‘goods’?
88, 89, 92
selling access not transfer of
ownership 86–9
data monitoring by Google 83,
89
(free) extracts/snippets 78, 81,
82–3
library project 77, 83, 85
security 83
licensing models 78, 81, 86
consumer purchase/single-user
access license 81
institutional subscriptions
81
non-display uses 82
standard preview 81
opt-in for publishers 77, 85
opt-out for rightsholders 77
out-of-print books 76–84
pricing 82
private act of reforming
copyright? 74, 84–6, 92
regulatory framework 76–84
US Constitution, Art 1 74
Google Print 72
latitude 310
OpenSocial
Greece
community wireless networks 209
data protection 225, 256
Guernsey
data protection 239, 256
gTLDs see domain names; see also
ICANN
hackers 12–13, 212
‘hacker culture’ 203
harassment 406
‘hard law’ 172
hardware
manufactured with surveillance
potential 273
‘hash value’ systems see blocking
HEPNET 6
historical perspective 3–24
Hong Kong 262, 263
data protection 223, 225, 231, 239,
245, 246, 256
network neutrality 425
human rights 219–392
  Charter on Human Rights and Principles for the Internet 358–68
  rights 360–68
data protection overlap 223
ECHR
  Art 8 223, 230-31, 298, 330, 377
  Art 10 290, 292, 294, 328, 377
  Art 19 294
Charter of Fundamental Rights of the EU 223
International Covenant on Civil and Political Rights (ICCPR 1967) 223, 354
International Covenant on Economic, Social and Cultural Rights (ICESCR) 354
procedural fairness 294–5
UN Universal Declaration on Human Rights 353–70
see also Bill of Rights; data protection, privacy
Hyves 310
IAB (Internet Architecture Board) 99
IANA 29, 36, 44, 47, 48, 56
accountability 100, 106–18
  accountability and transparency review team 111–13
  possible improvements to accountability? 114–16
Bylaws 30, 36, 37
control of
  addressing 66
DNS (domain name system)
  28–40, 42, 44–5, 47, 65, 101, 189, 285, 292
does it matter? 38–9
IP number blocking 35
legitimacy 101–6
root zone 33, 34, 39, 42–3
GAC (Government Advisory Committee) 27–8, 30, 46–7
IANA 29, 36, 44, 47, 48, 56
ICANN-DOC ‘Affirmation’ 2009 27–48, 176
legal status 36–8
powers over registrars/registries 40–41
to levy fees 3
third party contracts 35
UDRP (Uniform Domain-Name Dispute-Resolution Policy) 41
see also domain names; institutions; whois
Iceland
data protection 225, 257
identity 406–13
anonymity 401, 402–4, 406
ID cards 264, 266–9
intermediation 407–10
pseudonymity 406
state powers to force disclosure 377
theft 406
see also ID cards
IETF (Internet Engineering Task Force) 20, 55, 171, 184, 207
images see children
India 273, 436
data protection 225, 226, 227, 231, 239, 243, 257
Indonesia 273
data protection 227
information goods 71–93
  books as ‘services’ not ‘goods’?
institutions 99–119
  accountability 100, 106–18
  legitimacy 99, 101–6
  ‘perception of democracy’ 103–4
  possible improvements 104–5
  procedural approach 105–6
  ‘fairness doctrine’ 105
  ‘right to rule’ 102–3
insurance 317, 451
intellectual property
  contractual supremacy? 187–92
  IPR Enforcement Directive 182
  statutory laws 182
  see also copyright; patents; trade marks; WTO, TRIPS
interception see surveillance
intermediaries 277, 401–13, 434, 457–8, 458–80
access to networks 121–41
blended virtual-real space 401, 404–7
digital identity 401
invisibility 401, 402–4
see also ISPs
international developments

- cross-border cooperation, financial crimes 301
- International Covenant on Civil and Political Rights (ICCPR 1967) 223

Internet Governance Forum (IGF) 105, 117, 201, 358, 390, 437

Internet Protocol 15, 52–68
- see also addressing; TCP/IP

Internet Society (ISOC) 99, 184
- interoperability 15–17, 340, 419, 426

INTERPOL 285–6

IP see Internet Protocol; see also copyright; see also intellectual property; see also trade marks

Iran 271

Ireland
- child protection 283, 286–7
- data protection 225, 257

Isenberg, David 205

Isle of Man
- data protection 239, 257

ISOC 99, 184

isoHunt 289

ISPs 278–9, 283, 292, 458–80, 420
- liability 434
  - for security 447, 457, 458–80
  - ‘liability dumping’ 453, 466
  - ‘mere conduit’ exception 411, 462

network operators 121–41
- consumer access-ISP-content provider model 130–33
- investment in improving quality of service 134–6
- regulatory regimes 136–9
- pricing/cost considerations
  - security 448–9

providers of anonymizing services 43

relationship with content providers 121–41
- pricing/rent models 127–41

role between state and citizen (‘tilting’) 293

traffic management 424
- see also AOLT blocking;

 Demon Internet; filtering;
 intermediaries; self-regulation

Israel
- data protection 225, 239, 257

Italy 170, 433
- child protection 280, 285
- cybercrime 183
- data protection 225, 257

iTunes 310

ITU (International Telecommunications Union) 53, 67, 174, 184, 191, 272

World Summit on the Information Society 389

IWF (Internet Watch Foundation) 278, 280–86, 290, 291, 292, 295–7

JANET (Joint Academic Network) 6

Japan 310
- data protection 225, 229, 231, 245, 257
- network neutrality 419, 425, 427, 429, 430

Jersey
- data protection 239, 257

Kahn, Robert 6

Karrenberg, Daniel 8

Kenya 263

Kirstein, Peter 7

Kyrgyz Republic
- data protection 225, 226, 257

LACNIC (Latin American and Caribbean Internet Addresses Registry) 56

Latvia
- data protection 225, 257

Lessig, Lawrence 22, 85, 89, 91, 205, 278, 290, 313, 405, 419, 420

East Coast Code v West Coast Code 410

Level 3 432, 437

liability, content 314
- see also ISPs

libraries see Google Books

licensing
- competition law/refusal to license technology 383, 384, 385

license contracts 72, 73, 75
- changing nature 89–90
- criticised 91

Google Books 78, 89–90
Research handbook on governance of the internet

no longer publisher-rightsholder but rightsholder-user 89

see also contract; standards

Licklider, JCR 4
Liechtenstein data protection 225, 257
LinkedIn 310
Linux 13
Literary works see Google Books
Lithuania data protection 225, 257
Luxembourg data protection 225, 257
Macau data protection 225, 231, 239, 257
Malaysia data protection 225, 226, 229, 231, 232, 239, 245, 257
Malta child protection 285
‘stop pages’ 286, 287
data protection 225, 257
Mauritius data protection 226, 257
Mercosur 227, 232
‘mere conduit’ 462
Mexico data protection 226, 229, 231, 232, 239, 258
MFNET 6
Microsoft 188, 379, 373, 382–6, 420, 468–73
Internet Explorer 470
IE 7 470
PhotoDNA 290
Security Development Lifecycle initiative 469
Windows 7 472
98 471
Vista 472
XP 471, 472
mobile see wireless
Moldova data protection 225, 258
Monaco data protection 225, 258
Mongolia data protection 226
monitoring
Google, data collection 83
see also interception; surveillance
monopolies 129, 130–33, 147
see also Montenegro 225, 258
Morocco data protection 226, 258
Motion Picture Association of America 296
movies 296, 437
Mozambique 273
MSN 126, 461
music 312, 403
MySpace 47, 289, 310, 327
NATO 455, 456
NCMEC (National Center for Missing and Exploited Children) 287–9
‘net effects’ 155–6
NetFlix 437
Netherlands child protection 280
DNS blocking 292
data protection 225, 258
fingerprint data 269, 274
network neutrality 419, 425, 427–8, 433
social networks 310
networks contagion 154–5
content delivery networks 422, 424, 437–8
‘Intergalactic’ 4
‘network effect’ 379
network formation 156
neutrality 121–41, 145, 149–52
definition 421
effects
of regulations 127, 130, 136–9
on quality of service 129, 130
four net freedoms 421
‘lite’ v ‘heavy’ 424, 433
mandatory 150
pioneer jurisdictions 425
pricing 121–41
two-sided 126
quality of service 121–41
‘stupid network’ 205
see also ‘information goods’
Network Solutions Inc see VeriSign
New Zealand
anti-terrorism 265
child protection 280, 285
data protection 225, 226, 231, 236,
239, 245, 258
internet security, banking and ISP
liability 466
net neutrality 429
Newzbin 296
Nigeria 273
data protection 227
Norway 7
ccTLD 175
child protection 280, 284–5
data protection 225, 258
network neutrality 419, 427, 430
NRAs (national regulatory
authorities) 185–6
see also Ofcom
NSI VeriSign see VeriSign
OECD (Organisation for Economic
Co-operation and Development)
see data protection
Ofcom 186, 281, 283, 322, 428, 429,
430, 431
Openbook 319
Open Content Alliance 77
‘openness’ 15–17
open source 12–13, 14, 20–21, 342
see also Diaspora
‘Operation Avalanche’ 297
opt-in/opt-out
see Facebook; Google Books
Orange 437
Orkut 310
orphan works see copyright
out-of-print see Google Books
Oxford University student/Facebook
case 318–19
P2P 206
on decrease 438
wireless 207–8
Pacific Islands
data protection 226

packet
deep packet inspection 423
switching 4–5
paedophiles see children
Pakistan
cybercrime 266, 271
parental control 321
see also children; young people
patents 171, 383–6
Eco-Patent Commons 391
Paypal 212, 464, 465
Pearl Jam 403
personal data, sensitive 331
see also confidentiality; see also
human rights; see also data
protection; see also privacy
Peru
data protection 226, 229, 239, 258
PETs 240, 246
see also technologies
Philippines
data protection 229, 232
PHORM 435
photographs
Microsoft PhotoDNA 290
see also children
pictures see children
Ping 310
piracy sites
The PirateBay 300
Poland
data protection 225, 258
police enforcement 284, 285, 286
policy 260–74
blocking 277–82
future internet 143–64
internet addressing 52–68
security 475–80
see also children
political activism 329, 374
see also technical activism
pornography 288, 406
Germany, anti-blocking group,
AK-Zensur 301
UK ‘Operation Ore’ 297
US ‘Operation Avalanche’ 297
wrongful accusations 297
see also children; criminal law;
cybercrime
portability 340
Portugal 433
  data protection 225, 258
Postel, Paul 9
pricing
  networks 121–41
  see also ISPs
principles
  architecture of the internet 14–18
  data protection 235–43, 251
privacy 309–44, 362–3
  AOL system and potential privacy issue 289
  blocking systems 298–9
  Google Books and issues for reader privacy 83, 89
  privacy paradox 319–20
  pro-privacy organisations
    Openbook 319
  security 452
  see also APEC; data protection privity of contract 169
  procedural fairness 294–5
Prodigy 13
Project Gutenberg 77
protocols 15, 52–68
  DiffServ 423
  HTTPS protocol 313
  see also addressing; TCP/IP
quality of service
  network operators 121–41
Rambus 385–7
rape 405–6
redundancy 15–17
reform 143–64
  copyright 73, 84–6
  principles
    innovation-friendliness 158, 159
    leadership with humility and flexibility 160
    openness 158–60
    smart regulation 158, 160
registries 40–41, 58, 60
Regional Internet Registries(RIRs)56
  APNIC 56
  ARIN 56
  AfriNIC 56
  DENIC 175
  LACNIC (Latin American and Caribbean Internet Addresses Registry) 56
RIPE-NCC 56
  see also ICANN
regulation
  by code 278
  contract v statute 168–93
  effects-based 164
  ex ante 164
  ex post 164
  future internet 143–64
Google Books
  as private regulation 74, 84–6, 92
  regulatory framework 76–84
internet non-regulatable?
  regulatory migration 144
  rule-based 164
  social networks 330–37
  varieties 161
  see also co-regulation; NRAs;
  self-regulation
reputation see brand
Reseau Citoyen network, Brussels 209
rights
  see Bill of Rights; copyright; data protection; human rights;
  privacy
RIPE-NCC 56
Roberts, Larry 7
robots.txt 339, 341
Romania 433
data protection 255, 258
  retention 270
routing 52–68
  aggregation 55, 59, 60
  Classless Inter Domain Routing (CIDR) 55, 57
  definition 54
RPKI see cryptography
RSA SecureID 475
Russia 310
data protection 225, 226, 258
SamKnows 425, 430
San Marino
data protection 225
Saudi Arabia
  Dubai
data protection 225
Scots law 189
  see also UK
search engines
  exposure of personal data to search engines 339, 341
  robots.txt protocol 339, 341
  see also Google
Second Life 47, 192, 313, 373
security 445–80
cyberattacks
  against Estonia 454, 455, 456, 476
  against Georgia 455, 476
  against Google 475
HTTPS protocol 313
insurance 451
libraries/Google Books 83
moral hazard 450–51
problems
  botnets 454, 456–8
  China–US government attacks 455
  Conficker 457
  DDoS attacks 212, 213, 215, 455
  keyloggers 449
  malware 449
  Stuxnet 455
  Trojans
  worms 456
  see also technical activism
pricing/cost considerations 448–9
protection measures 453–4
CERTS (Computer Emergency Response Teams) 452, 459
CSIRTs (Computer Security Incident Response Teams) 452, 454
HTTPS protocol 313
NATO Cyber Defense Center of Excellence 456
software patches 467–9
routings 60
user discretion 473–4
self-regulation 277, 279, 281, 292, 293–4
Google Books
social networks 341, 343
traffic management/broadband 430, 431
varieties of self-regulation 161
see also code; Cybercrime Convention; data protection; regulation
Senegal
  data protection 232, 258
Serbia
  data protection 225, 258
sex offences
  virtual rape 405–6
  see children; blocking
Shaw Communications 437
shrink-wrap licenses 87, 174
  see also browse-wrap; click-wrap; web wrap
signatures see electronic signatures
Singapore
  data protection 226, 229, 232
  Skype 129, 379, 424, 425
Slovakia
  data protection 225, 258
Slovenia
  data protection 225, 259
social networks 309–44, 406
  contractual relationship but secret? 313–15
  data protection 248
  defined 311
deletion of profiles and of data 317
demographics 310, 315
problem characteristics
  apps 312, 324, 325–6
  bullying 318
data disclosure (inadvertent or out of context) 313, 317, 326
  location services 311–12
  profiling 327–8
  search engines’ capability to grab data 339
  surveillance 317–18
  tagging 314, 326
  third party advertising 312, 314, 324–8
  user’s ignorance
  users’ inertia 322
  users’ lack of knowhow 323
regulation 330–37
security 445
‘soft law’ 171–2
software
  Directive 182, 188
licences 87, 174
security patches 467–9
Sony Playstation Network 475
South
network neutrality 425, 429
South Africa
data protection 226
South Korea
data protection 225, 227, 231, 239, 243, 245, 259
Soviet Union
data protection 225
see also Russia
Spain
data protection 225, 259
Spamhaus 452, 460
SPN 6
Spotify 312
standards 171, 229–35, 250, 271–4
competition issues 379, 385, 386
data protection 229–35
IETF 171
open standards 390, 391
see also addressing, protocols; FRAND
state-based governance destabilised 200–202
statute 168, 181–93
‘stop pages’ 284, 286, 287, 291
Stuxnet 455
suicide sites 296
surveillance 271–4
hardware manufactured with surveillance potential 273
Iran/Nokia Siemens 271–3
see also blocking; children
Sweden
child protection 285, 291
cybercrime 183
data protection 224, 225, 259
network neutrality 425
Switzerland 433
child protection 285
data protection 225, 239, 259
Taiwan
data protection 225, 229, 231, 239, 243, 246, 259
network neutrality 425
Taipai
TCP/IP 6–7, 17, 18, 23, 153, 169–70, 184
minimalism by design 205
technical activism 198–215
technological solutions 277
PETS (privacy-enhancing technologies) 223
telecoms
EU Framework Directive 148, 171, 184, 434
terms and conditions see contract; see also social media
terrorism see anti-terrorism
text services 425, 428
Thailand
data protection 225, 232
‘tilting’ see ISPs
T-Mobile 432
TOR 300
Torvalds, Linus 13
trade
marks 377, 402, 403
parallel imports 377
priority rights in domain name applications 39, 41
secrets 373, 381
traffic flow management 41, 419–39
DiffServ protocol 423
TRIPS 182, 189, 392
trust schemes
TrustE 335
Tumbler 376
Tunisia 374
data protection 226, 259
Twitter 310, 325, 329, 340, 376
traffic flow management 41
Tymnet 6
UAC (User Account Control) 472, 474
UCL (University College London) 7–9, 23
UDRP (Uniform Domain-Name Dispute-Resolution Policy) 41
see also ICANN
Ukraine
data protection 226, 259
UN 264
Convention on the Use of Electronic Communications in International Contracts 181
human rights charters 375, 388, 390
Universal Declaration on Human Rights 353–70
Working Group on Internet Governance (WGIG) 117, 199
see also International Covenant on Civil and Political Rights (ICCPR 1967); International Covenant on Economic, Social and Cultural Rights (ICESCR) 354; Internet Governance Forum (IGF); World Summits on the Information Society (WSIS)
United Kingdom 4–24, 171, 260–74
child protection 278, 280, 281, 284–5, 293, 297
Communications Act 2003 185
data protection 225, 246, 259
doctrine of abuse of rights 189
network neutrality 419, 428, 435
privacy
social networks 315–16, 321–29, 333, 335
unfair terms 171, 335
see also Ofcom
Universal Declaration on Human Rights 353–70
Universal Service Directive (EU) 180
UNIX 12
Uruguay
data protection 225, 231, 239, 259
USA 4–24, 177, 260–74
child protection 281, 287–90, 297, 314–15
lack of procedural fairness 294
Communications Decency Act 178, 314, 402, 411
copyright 315
data protection 183, 225, 227, 228–9, 231, 232, 236, 242, 246, 247, 248, 278
Digital Millennium Copyright Act 182
Internet Freedom Agenda (2010) 206
network neutrality 425, 428
privacy 183, 314–15
security, Electronic Funds Transfer Act (1978) 465
social networks 314–15
see also Baran; Licklider; security
usage based billing 428–9
usenets 11
VeriSign 29, 33, 35, 173
video
and bandwidth 429, 437
VISA 212, 457, 465
Vodafone 376
voice 147, 423, 424, 425, 433
VOIP (voice over Internet Protocol) 129, 152, 423, 424, 425, 428, 433
voluntary regulation see self-regulation
W3C 99
‘walled garden’ 152, 342
watermarking 83, 88, 175
see also DRMs
webwrap licences 174
see also browse-wrap; click-wrap; shrink-wrap
WGIG 117, 199
whois 41, 63, 67
WikiLeaks 198, 211–15, 457
Wikipedia 283, 284, 295
WIPO see copyright
wireless 445
commons 208–10
networks, US 122
community (CWNs) 198–215
P2P 207–8
Working Group on Internet Governance (WGIG) 117, 199
World of Warcraft 47, 174, 313, 373, 391
World Summits on the Information Society (WSIS) 201
World Trade Organization (WTO) 148, 174, 182, 191, 378
see also TRIPS
Yahoo 126
young people
social networks 310, 315, 316, 321, 322, 337
see also children
YouTube 62, 323, 422, 434, 438