

Index

- 28th regime, 160, 165, 181
- access to data, 118, 124, 126, 129, 133, 135, 140
- algorithm, 1, 6, 28, 40, 50, 83, 91, 116, 138–139
- anonymization, 63
- anonymous, 63, 92–93, 96, 99, 139, 187
- application, 7–8, 11, 13, 16, 21, 46, 54, 61, 63, 81, 83, 92–93, 95, 101–103, 105–106, 110, 114, 141, 155, 158, 162, 168, 180, 185–186, 190, 195, 197, 203, 207–208
- automated execution, 24–26, 75–77, 79
- automation, 3, 5, 80, 83, 210
- Bitcoin, 2, 7–10, 12–14, 16, 19–22, 24, 26, 29–32, 35–36, 38–39, 42–43, 45, 48–52, 59, 61, 64, 76, 85–86, 90–91, 96–98, 100, 106, 108, 137, 147–148, 151–152, 155, 164, 170, 176, 180, 182, 186, 189–190, 194, 197, 200–208
- blockchain-as-a-service, 16
- Buterin, Vitalik, 11, 23–24, 29, 31, 94, 177, 193, 200, 209
- carbonvote, 188, 193, 204
- China, 43, 47, 51, 55, 57, 134, 160
- code, 4, 7, 13–14, 22–27, 34–35, 39–45, 52, 59, 66–86, 105, 118, 134, 145, 163, 165, 169–170, 172–173, 176, 178–179, 181–182, 185, 187–188, 192, 194, 196, 198–201, 203, 207–209
- coin holder, 204
- command-and-control regulation, 165, 174, 176
- competition, 20, 41, 47, 77, 112, 114, 117–118, 124, 128–130, 133, 144, 150, 170, 202
- consensus, 1, 6–7, 20–21, 23, 26, 49–51, 55, 59, 64, 116, 133, 144, 160, 180–182, 184, 190, 194, 197, 200, 202, 204, 206, 211
- copyright, 38, 40–41, 44, 49, 121–123
- core developers, 38, 52–53, 180, 185, 194, 200–201, 206–207
- co-regulation, 6, 144, 165, 171–177, 179, 181, 206, 211
- cryptoasset, 16, 39, 51, 54–56, 59, 62, 85, 91, 96, 149, 156, 161, 163, 169
- cryptoeconomic, 136, 167
- cryptography, 7, 13, 28–29, 46, 52, 60, 74, 86, 91, 94, 163
- cyberspace, 36–37, 39, 43–44, 46, 64, 179
- cyberpunk, 13, 35, 63, 85
- data controller, 99–101, 107, 110
- data marketplace, 135–136, 138, 140
- data ownership, 125, 133, 138
- data portability, 114, 127–130, 151
- data processor, 128
- data sharing, 92, 115, 118, 121, 123, 126, 129, 131, 133–140
- data sovereignty, 89, 114–116, 129, 136–137
- data subject, 72, 92–94, 96, 99, 101–103, 105–107, 109, 111, 113–114, 127–129
- Database Directive, 121–123, 128
- decentralization, 11, 19, 31–32, 51, 60–62, 88–89, 173, 175, 177, 183, 205–206, 208
- decentralized application, 195
- disintermediation, 18
- E-Commerce Directive, 51, 56, 173
- encrypt, 62, 137
- essential facilities, 124–125
- Ethereum, 2, 9, 11, 14, 16, 19–20, 23–24, 26, 29, 31–32, 35, 38, 40, 52, 62–63, 66, 94, 98, 100, 105, 186, 188–189, 191, 194, 197, 200, 202, 205, 207
- European Commission, 9, 17, 41, 60, 68, 111, 117, 119–120, 123, 126, 130, 135–136, 140, 143, 148–149, 154–155, 157–161, 166, 168–169, 172, 175, 177, 180

- fiduciary, 207
 fork, 90, 188–189, 194, 196, 201–204, 206–207
 fragmentation, 166, 176, 180–181
- GDPR, 5, 46, 62, 72, 88–111, 113–115, 127–130, 138, 141, 151, 158, 211
- Germany, 38, 49, 59, 97, 100
- Gibraltar, 207–208
- government, 1, 9, 13, 23, 35, 37, 41, 44, 47, 50, 52, 56, 58, 63, 71, 74, 76, 79, 83, 126, 140, 148–149, 163, 171, 177, 179–180, 199
- hardware, 7, 19, 21, 50, 56, 101, 138, 183, 202, 205
- hash, 7, 20, 28–30, 90–91, 93–95, 101, 163
- innovation, 2–3, 5–6, 10, 25, 32, 45, 56–57, 73, 78, 82, 89, 92, 110–113, 115, 117, 119–120, 124, 126, 128–129, 134–135, 140–153, 156, 158–160, 164, 167, 169–170, 175, 178–181, 191, 206–207, 211
- integration, 166
- Internet, 5, 7–12, 15, 36–39, 44–46, 48–49, 52–55, 57–60, 64, 73, 76, 81–82, 93, 101, 103, 116, 120, 126, 147, 151–152, 155–156, 164, 169, 172–173, 176–177, 179, 210
- Internet of Things, 25–26, 138
- interoperability, 17, 23, 41, 86–87, 111, 113, 124, 133–134, 152–153, 209
- jurisdictional competition, 83, 143, 162
- legal certainty, 89, 98–99, 110, 118, 131, 140, 150, 152–153, 158, 163–164, 166
- legislative marketing, 143, 161, 164, 180
- Lessig, Lawrence, 35, 39, 66, 91, 145, 179, 182, 209
- Luxembourg, 108, 150, 152, 160
- Malta, 13, 163
- member state (European Union), 102, 181
- miner, 20–21, 25, 49, 102, 201–202
- mining pool, 21, 50, 201
- Nakamoto Satoshi, 8, 12, 21, 30, 45, 60, 96, 98, 106, 147, 189, 205
- Napster, 41, 46, 53, 60–61
- Netherlands, 159
- node, 14–15, 19–21, 31–32, 44, 61, 77, 95, 100, 102–104, 106, 109, 185
- oppression, 33, 76
- peer-to-peer network, 6, 25, 62
- platform, 7, 9, 11, 22, 24, 40, 45, 67, 69–70, 83, 92, 95, 114, 129, 135, 138, 158, 168, 170, 187, 191, 196–197, 203
- Polycentricity, 176, 199
- privacy, 15, 29, 35, 63–65, 76, 83, 89–90, 93–94, 96–98, 107, 111–115, 139–140, 151
- private key, 14, 28, 62, 90–91, 98, 101, 107, 115, 136
- proof-of-stake, 22, 49, 204
- proof-of-work, 20–21, 30, 49, 51, 57, 205
- protocol, 4, 7–8, 10–12, 17, 19–20, 22–23, 26, 29, 39, 48, 50, 66, 103, 136–139, 183–186, 188, 191–194, 200–203, 205
- pseudonymous, 9, 12, 28–29, 53, 79, 92, 96–97, 104
- public key, 28, 90, 95–96, 98, 108
- public key infrastructure, 28
- public sector information, 126
- regulatory access point, 49, 165
- regulatory sandbox, 59, 158–159
- right to amendment, 104
- right to be forgotten, 55, 106, 108
- rule of law, 13, 79–82, 151, 159, 166, 191
- Sealand, 36–37, 44, 164
- self-regulation, 4, 37, 39, 53, 128, 164–165, 168–170, 172, 174–176
- smart contract, 1, 12–13, 22, 24–28, 46, 75–78, 85–86, 95
- surveillance, 33, 72, 77, 111
- tamper-proof, 10, 25, 30, 74, 77, 108, 180
- The DAO, 23, 40, 90, 184–185, 187–189, 193, 203–204, 207
- token, 10, 16–17, 30, 85–86, 140–141, 185, 187, 193, 203
- trade secret, 70
- trustless trust, 12, 14, 84, 136, 188, 208
- United States, 38, 44, 48, 55, 59, 83, 123, 137, 153, 179
- user, 20–21, 48, 54–55, 61, 63–64, 86, 90–91, 95–96, 115, 125, 127, 136, 138, 152, 189, 202, 204–206
- Zamfir, Vlad, 20, 31, 33, 189, 191