



UvA-DARE (Digital Academic Repository)

Legal theory, sources of law and the semantic web

Boer, A.

DOI

[10.3233/978-1-60750-003-2-i](https://doi.org/10.3233/978-1-60750-003-2-i)

Publication date

2009

[Link to publication](#)

Citation for published version (APA):

Boer, A. (2009). *Legal theory, sources of law and the semantic web*. [Thesis, fully internal, Universiteit van Amsterdam]. IOS Press. <https://doi.org/10.3233/978-1-60750-003-2-i>

General rights

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations

If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: <https://uba.uva.nl/en/contact>, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

Index

- abducible, 43, 50
- abduction, 42
- ability, 134, 137
- abox, 67
- abstraction, 37, 54, 203, 257
- action, 41, 83, 96, 99, 128
- actor, 244
- adequate, 19
- ADL, 246
- administrative burden, 15, 60
- adversarial, 17, 50
- affirmation, 251
- affirmation of a permission, 208
- affirmation of an imperative, 208, 242
- agency, 123
- agent, 114, 134, 136, 137, 219, 242, 244
- agent causation, 125
- agent role, 271
- Akoma Ntoso, 166
- allowed, 117, 121, 209, 233, 256
- also-applicability, 161, 193
- ampliative reasoning, 37, 42, 58, 74
- applicability, 160
- applicability rule, 252, 268
- argument, 66, 75
- argumentation, 48
- ascription, 46
- assertion, 67
- assumption, 27, 28, 43
 - closed world, 28
 - closure, 72
 - compliance is normal, 28
 - deadline, 84
 - disjointness of universals and particulars, 69, 77
 - frame, 28, 79, 83
 - knowledge availability, 42, 49, 79
 - open world, 64, 70, 72, 108
 - rationality, 25
 - shared mental world, 36
 - single fault, 30
 - unique names, 70
- assumption of closure, 72
- attempt, 127
- autoepistemic, 42
- auxiliary fact, 164
- auxiliary proposition, 149
- auxiliary rule, 163
- axis of reference, 198

- backing, 80, 150
- belief, 47
- belief base, 65, 77, 84
- belief base revision, 66
- belief revision, 65, 228
- belief set, 65
- best explanation, 42
- better, 118
- betterness, 83, 219, 240
- bibliographic citation, 173
- bibliographic expression, 173
- bibliographic item, 173
- bibliographic manifestation, 173
- bibliographic object, 173
- bibliographic work, 173
- bisimulation, 37, 241
- bring about, 129
- brute fact, 93
- brute reality, 93, 106, 251
- burden of proof, 108, 156, 158, 212
- business process, 246

- case, 29
- case description, 248

- case law, 251
 ceteris paribus preference, 221
 choice, 45
 choice rule, 164, 258, 268
 citation, 185
 claim, 48
 closed world assumption, 28, 73
 cognition, 258
 coherent, 34
 collective, 92
 collective entity, 142
 combinative preference, 242
 comparison theory, 198
 competence, 101, 134
 complete, 19
 compliance conflict, 201, 205, 207, 210
 compliance dilemma, 238
 computational legal theory, 35
 concept, 33, 68
 conflict, 211
 conflict of disaffirmation, 205, 220
 conflict with legislator's intentions, 209
 constitutive act, 95, 237
 constitutive rule, 89, 93
 constraint, 73, 75
 context, 34
 contrary-to-duty, 212
 contrary-to-duty obligation, 118
 contrast, 198
 cooperativeness, 17
 core ontologies, 38
 core ontology, 79
 core theories, 38
 CTD, 212
 CTD-obligation, 212
- datalog, 73
 deadline, 84, 130, 243
 deadweight loss, 15
 decidable, 19
 deep model, 280
 default, 66, 75
 default reasoning, 75
 default rule, 75, 245
 defeasibility, 43
 defeasible, 8, 51
 defeasible extension to a knowledge component, 67
 definition, 33
 delayed application, 153
 delegation, 142, 149, 161, 164, 189, 192, 206
 denotational semantics, 20
 deontic choice, 44, 200
 deontic logic, 26, 116, 118
 deontic square, 137
 description classifier, 72
 description logic, 8, 67
 descriptive fidelity, 167, 191
 design, 84
 design principle, 19
 disability, 138, 141
 disaffirmation of a permission, 205
 disaffirmation of an imperative, 205
 disallowed, 117, 122, 209, 233, 256
 disjointness, 39
 disjointness of universals and particulars
 assumption, 69
 dispositional beliefs, 65
 domain, 22
 double jeopardy, 231
 doxastic, 25, 46, 50
 doxastic voluntarism, 46, 60
 duty, 139
 duty conditional on violation, 216
 dynamic modal logic, 84
- eGovernment, 15, 16
 emergence, 128
 endophoric proform expression, 184, 188
 envisioning, 256
 epistemic, 32
 epistemic competence, 28, 191
 epistemic entrenchment, 44, 51, 228
 epistemic obligation, 231, 235
 epistemic process, 41
 epistemic role, 30, 47, 109
 epistemic thing, 21
 epistemics, 31
 epistemological, 32

- epistemological gap, 29, 81
 epistemology, 7, 31, 40
 equality of conditions, 114
 evaluative, 116, 250
 evaluative concept, 255
 event, 83
 event calculus, 83, 128
 everyone, 142
 ex ante, 47, 83, 255
 ex post, 47, 83, 255
 ex post facto, 153
 ex tunc, 154, 169, 180, 193
 exclusionary preference, 242
 exclusive jurisdiction, 165
 exophoric proform expression, 184
 expectation, 109, 110, 114, 132, 136
 expected utility, 45
 expected utility hypothesis, 45, 242
 explanation, 43, 48, 75
 explanatory power, 43
 explicit disaffirmation, 207
 explicit knowledge, 16
 expressiveness, 19
 extension, 20
 externalism, 25, 46
- factor, 199, 249, 250, 257
 falsifiability, 26
 feature engineering, 24
 fidelity, 20, 52
 first representation, 189, 266
 fluent, 83, 128
 folk psychology, 25, 82
 formal act, 102
 frame assumption, 28, 83
 FRBR, 82, 190
 function, 114
 Functional Ontology of Law, 134
 Functional Requirements for Bibliographic Records, 82
- generic case, 210, 250
 granularity, 36, 83
 ground facts, 73
 Grundnorm, 90
- hierarchical task network, 98
 Hoare logic, 84
 Hohfeld, 137, 243
 homonymy, 35
 horizontal equity, 255
 human-based computation, 49
 hybrid, 72
 hypothesis, 21, 42, 43
 hypothetical object, 78
- I-intention, 95, 245
 I-preference, 245
 imitation, 245
 immunity, 141
 imperium, 164
 impossible to realize, 209
 impotence, 138, 141
 incision function, 66, 78, 233, 235
 inclusion, 186
 incompetence, 138, 141
 indicative rule, 156
 individual, 67
 individuals, 34
 inference, 23, 42
 information, 34, 49
 initiation, 83
 institution, 89, 92, 265
 institutional reality, 90, 93, 106
 institutional rule, 93, 267
 intended normative order, 88
 intension, 21
 intensional semantics, 21
 intent, 156
 intention, 92, 94–96, 124, 130, 137, 153, 162, 197, 259
 intention entrenchment, 44
 intentional stance, 21
 intentional thing, 21, 82
 intercoder reliability, 191
 interest, 136
 internalism, 46
 intersection conflict, 206, 234, 235, 259
 introspection, 21, 76
 isomorphism, 7, 19, 20, 29, 54, 81, 185, 188

- item, 151, 178
- jointly realizable, 205
- judicial review, 193
- jural opposite, 137
- jural relationship, 137, 139
- jurisdiction, 164
- jurisprudence, 248
- jurisprudence constante, 248
- justification, 48

- KBS, 14, 23, 34, 36, 41, 49, 73, 78, 108
- know-how, 40
- know-why, 40
- knowledge acquisition, 198
- knowledge as a productive factor, 29, 30
- knowledge as the attainment of truth, 29
- knowledge base, 17, 18, 67
- knowledge based systems, 14
- knowledge component, 28, 65
- knowledge domain, 32
- knowledge level hypothesis, 25
- knowledge representation, 17
- knowledge representation language, 18
- knowledge source, 64, 65
- knowledge syndication, 29, 61

- legal act, 100, 232
- legal fact, 100, 105, 188
- legal fiction, 161, 193
- legal knowledge based system, 15
- legal knowledge engineering, 16
- legal ontology, 36, 100, 254
- legal planning, 279
- legal pluralism, 4
- legal rule, 100, 188, 248, 266
- legal writing, 80
- legally relevant, 148
- legislation, 88
- legislative act, 102
- legislative drafting, 125
- legislative resource, 80
- legislative supremacy, 193
- legislator, 101, 113, 122, 125, 163
- legitimate expectation, 136
- lex posterior, 149, 189, 229
- lex specialis, 149, 229, 233, 251
- lex superior, 149, 229
- liability, 141
- LKBS, 15, 29, 78, 156, 158, 188, 191, 199, 237, 258
- LKIF, 79, 150, 200, 217, 235, 282
- logic, 19
- logical nonmonotonicity, 229

- man on the Clapham Omnibus, 127
- mandate, 164
- meaning, 22
- measurement theory, 198
- mens rea, 47
- mental object, 247
- mental things, 20, 25
- merging concepts, 192
- metadata, 61, 149, 151, 167
- metalegal knowledge, 135
- MetaLex, 82, 149, 150, 152, 166, 173, 248, 252, 264, 282
- metaphor, 35, 36
- methodological priority of ex ante intention over ex post intention, 96
- metonymy, 35
- mimetic theory, 245
- minimal explanation, 43
- minimal model, 75
- minimality, 59
- model, 72
- monotonic, 19
- monotonicity, 19, 64
- motivating indifference, 241
- motivating preference, 219, 241

- naive physics, 82
- namespace, 62, 67
- ne bis in idem, 208, 231, 254
- negation as failure, 73
- negative causation, 128, 132
- no-dilemma assumption, 222
- nominal, 68
- nonmonotonicity, 19
- norm, 26, 91, 109, 218, 240
- norm of analysis, 113, 242, 249, 255
- norm qua qualification, 203

- normality, 100, 109
 normative conditional, 128
 normative conflict, 203, 258
 normative order, 54, 109
 normative position, 133
 normative proposition, 26
 normative rule, 89, 112, 116–118, 162, 200, 258, 268, 269
 normative statement, 26
 normativity, 109
 Norme in Rete, 166
 nothing, 21
 nulla poena sine lege, 153

 obligation, 90, 115, 122, 124, 129, 140
 occurrent beliefs, 65
 ontic, 32
 ontological, 86
 ontological commitment, 250
 ontological commitments, 22
 ontological distinction principle, 39
 ontological stratification, 36, 38, 53, 86
 ontology, 7, 23, 32
 ontology integration, 254
 open texture, 22
 operational semantics, 20
 opinio iuris, 251
 opposite, 210
 ought-to-be, 124
 ought-to-do, 124
 OWL, 4, 7, 64, 67
 OWL DL, 7, 20, 67

 parliamentary sovereignty, 193
 participant, 168
 patient, 244
 PDDL, 246
 perfect fidelity, 21
 perfect refinement, 37
 period, 129
 permission, 90, 115, 123, 140
 personal construct, 198
 physical things, 20
 plan, 96
 plan execution, 97, 277
 plan recognition, 88

 planning, 88, 98
 polysemy, 35
 postdiction, 47
 potestative right, 101, 137, 140, 142
 potestative square, 138
 power, 101, 133, 134, 141
 prediction, 47
 preference, 44, 45, 83, 91, 97, 110, 115, 119, 136, 137, 218
 preference independence, 242
 preference logic, 119
 preference theory, 218, 241
 prime implicant, 66, 208, 210
 primum comparandum, 198
 principle of rationality, 25
 privilege, 140
 problem solving, 14, 40, 52
 problem solving competence, 23, 28, 52
 problem solving method, 28, 42, 155
 problem type, 28
 prohibition, 90, 115, 122
 proof tree, 50
 proposition, 65
 propositional attitude, 65
 prospect theory, 110
 prototype, 37, 246
 psychological geometry, 198
 punishment, 116

 query language, 72

 rational choice theory, 46
 RDF, 62
 reaction, 134
 reactive knowledge, 134
 realizability, 205
 reasoning as process, 84
 reduction, 37
 reductionism, 36
 reference, 266
 reference transaction, 110, 111
 reflexivity, 219
 regime, 253
 reification, 47
 repertory grid, 120
 representation, 266

- requirement, 252
- resource, 63
- restorative justice, 135
- retroactive applicability, 153
- reusability, 29
- revealed preference, 221, 240
- rhetoric, 51
- rhetorical comparison, 198
- rhetorical hierarchy, 51
- right, 139–141
- role, 91, 125
- rule, 248

- scalability, 27
- scale, 198
- schema, 33
- script, 100, 111, 139, 243, 245
- secundum comparatum, 198
- self, 246
- Semantic Web, 15, 29, 60
- settled context, 207, 212, 224
- settled model, 78
- shared jurisdiction, 165
- sichttag, 154, 169
- silent, 117, 209
- simile, 198
- simulation, 37
- simulation theory approach to the mind, 97
- single fault assumption, 30
- situated action, 29
- situation, 128, 131
- skeletal plan, 112
- skill, 29
- social, 92, 265
- social role, 113
- soundness, 19
- source of law, 16, 80, 150, 264
- sources of law, 27
- spatial planning, 82
- speech act, 47
- stance, 36
- stare decisis, 14, 231, 247
- stare dictis, 248
- stare rationibus decidendi, 248

- state, 128
- state of obligation, 117, 133
- stative, 134
- status quo bias, 110
- stichtag, 154, 169
- stratum, 38
- strengthening the antecedent, 212, 226
- STRIPS, 246
- strong permission, 201, 209
- subdelegation, 164
- subjective norm, 246
- subjunctive betterness, 118, 119, 198, 255, 270
- submandate, 164
- surrogate, 20
- synecdoche, 35

- tacit knowledge, 16, 29, 81
- TBox, 219
- tbox, 67
- temporal nonmonotonicity, 229
- term, 33, 188, 266
- termination, 83
- terminological subsumption, 34, 37
- terminology, 33
- tertium comparationis, 198
- theft, 116
- theory of brute reality, 211
- theory-theory approach to the mind, 97
- top ontology, 82
- tractable, 19
- trichotomy, 221

- uniform resource identifier, 7, 61
- uniform resource locator, 174
- unintended but goal-directed behaviour, 99
- unique bibliographic identifier, 173
- unique name assumption, 58, 73
- unique names assumption, 70
- URI, 7, 61
- URI reference, 62
- utility theory, 45, 110

- validity, 19
- victim, 135

violation, 115, 122, 133

we-intention, 95, 245

we-preference, 245

weak permission, 201, 209

weakening the consequent, 226

Web Ontology Language, 64

xml base, 178, 190

zeugma, 35