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Term (and very brief descriptions of its meaning)		BFO	GFO	SUMO	YAMATO	GIST
Universals vs. Particulars (Universals can have instances, particulars do not)	Particulars	Universals	Universals, particulars	Universals, particulars	Particulars	Unclear
Descriptive vs. Realist (Descriptive: represent the entities underlying natural language and human common-sense; Realist: represent the world as is)	Descriptive	Realist	Descriptive, realist	Descriptive	Realist	Descriptive, realist
Multiplicative vs. Reductionist (Multiplicative: different objects can be co-located at the same time; Reductionist: only one object may be located at the same region at one time)	Multiplicative	Reductionist	Unclear	Multiplicative	Multiplicative	Multiplicative
Endurantism vs. Perdurantism (Endurantism: an object is wholly present at all times; Perdurantism: an object has temporal parts)	Endurantism and perduran- tism	Endurantism and perduran- tism	Endurantism and perduran- tism	Endurantism and perduran- tism	Endurantism and perduran- tism	Endurantism and perdurantism
Actualism vs. Possibilism (everything that exists in the ontology is real vs. objects are allowed independent of their actual existence)	Possibilism	Actualism	Unclear	Unclear	Actualism	Possibilism
Eternalist stance (the past, present, future exist)	Eternalist	Eternalist	Eternalist	Eternalist	Non-eternalist	Eternalist
Concrete & Abstract entities (Concrete: entities that exist in space and time; Abstract: entities that exist neither in space nor time)	Concrete, abstract	Concrete	Concrete, abstract	Concrete, abstract	Concrete, ab- stract	Concrete, abstract
Mereology (theory of parts)	GEM	Own mereol- ogy	Own mereol- ogy	Own mereol- ogy	Own mereol- ogy	Own mereology
Temporal aspects (e.g., time-indexed axioms)	Provided	Not provided	Provided	Provided	Provided	Provided
Granularity (different levels of detail contained in an ontology)	High level	Sensitive to granularity	Unclear	Unclear	High level	High level
Properties and values ('attribute'; e.g., the colour of an apple)	Included	Not included	Included	Included	Included	Included
Model for space and time (Consists of time and space regions and boundaries)	Not included	Not included	Included	Not included	Not included	Not included
One-layered vs. Three-layered architecture (a basic level only; an abstract top level, abstract core level and basic level)	One-layered	One-layered	Three-layered architecture	One-layered	One-layered	One-layered
Situations and situoids (Situation: an aggregate of facts that can be comprehended as a whole and satisfies certain conditions of unity; Situoid: is a part of the world that is a comprehensible whole and can exist independently)	Not included	Not included	Included	Not included	Not included	Not included

Yes (for clients, not freely available) Table 2.2.: Comparison of representation languages and software engineering properties for each foundational ontology. GIST Yes Yes Yes 128  $N_0$ 105 766  $^{\circ}$ Š % % YAMATO 10790 2311 Yes Yes 829 Yes Yes Yes Yes Yes 2 N N SUMO 1894 Yes Yes 217 Yes Yes Yes Yes å % % Software engineering properties Representation Languages Yes Yes Yes Yes Yes Yes No Yes Yes 323 Yes No Š 29 Yes S 8 N Š 39 95 0 DOLCE Yes Yes Yes Yes Yes Yes Yes Yes Yes 349 Yes Yes Yes No No ogy Number of object properties Lighter/more-Number of classes in ontol-Number of axioms in ontol-Modular: Separate branches Functions and Built-in domain Registerable on the OBO Modular: OWL 2 profiles for 3D and 4D entities Actively maintained detailed versions Freely available in ontology OWL 2 DL OWL 2 QL OWL 2 EL OWL 2 RL Modular: Modular: SUO-KIF Modular: OWL DL support DAML HOZOH 0BOFOL