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Commentary

The Standardization of the Second Generation Web Ontology Language

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Abstract

Ontology consists of a group of axioms that place constraints on sets of people (called "classes") and therefore the forms of relationships allowable between them. These axioms give linguistics by permitting systems to infer extra data supported the information expressly provided. The Web metaphysics Language (OWL) may be a family of information illustration languages for authoring ontologies. Ontologies area unit a proper thanks to describe taxonomies and classification networks, basically process the structure of information for varied domains: the nouns representing categories of objects and therefore the verbs representing relations between the objects.

Keywords: Web Ontology Language; RDF schema; Racer Pro.

Introduction

Ontologies gibe category hierarchies in object-oriented programming however there are a unit many important variations. Category hierarchies area unit meant to represent structures employed in ASCII text file that evolve fairly slowly (perhaps with monthly revisions) whereas ontologies area unit meant to represent data on the web and area unit expected to be evolving nearly perpetually. Similarly, ontologies area unit generally way more versatile as they're meant to represent data on the web coming back from all varieties of heterogeneous information sources. Category hierarchies on the opposite hand tend to be fairly static and think about way less numerous and additional structured sources of knowledge like company databases.

The bird of Minerva languages area unit characterised by formal linguistics. They're designed upon the planet Wide internet Consortium's (W3C) XML customary for objects known as the Resource Description Framework (RDF). Bird of Minerva and RDF has attracted important educational, medical and business interest. In Gregorian calendar month 2007, a replacement W3C social unit was began to extend bird of Minerva with many new options as planned within the bird of Minerva one.1 member submission. W3C proclaimed the refashion of bird of Minerva on twenty seven Gregorian calendar months 2009. This refashion, known as bird of Minerva a pair of, shortly found its means into linguistics editors like receiver and linguistics reasons like Pellet, RacerPro, FaCT++ and HermiT. The bird of Minerva family contains several species, serializations, syntaxes and specifications with similar names. Bird of Minerva and OWL2 area unit wont to check with the 2004 and 2009 specifications, severally. Full species names are going to be used, together with specification version (for example, OWL2 EL). Once referring additional typically, bird of Minerva Family are going to be used.

RDF schema: RDF Schema (RDFS) may be a language for writing ontologies. Metaphysics may be a model of (a relevant half of) the planet, listing the kinds of object, the relationships that connect them and constraints on the ways in which objects and relationships are often combined.

The data delineated by metaphysics within the bird of Minerva family is understood as a group of "individuals" and a group of "property assertions" that relate these people to every different. Metaphysics consists of a group of axioms that place constraints on sets of people (called "classes") and therefore the forms of relationships allowable between them. These axioms give linguistics by permitting systems to infer extra data supported the information expressly provided.

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