

Building Blocks of DLs and OWL

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OWL	DL	Semantics	Example
instance or individual	instance or individual	A member of a set.	A person called Mary or a dog called Fido.
class	concept	A set of individuals.	The Person class (concept) consisting of persons or the Dog class (concept) consisting of dogs.
object property	role	A set of pairs of individuals.	The owns object property (role) can link a pet and its owner: Mary owns Fido (in DL <i>owns(Mary, Fido)</i>).
data property	concrete role	A set of pairs where each pair consists of an individual linked to a data value.	The data property (concrete role) hasAge can link a number representing an age to an individual: hasAge(Mary, 10) (in DL <i>hasAge(Mary, 10)</i>)