

Action Distance

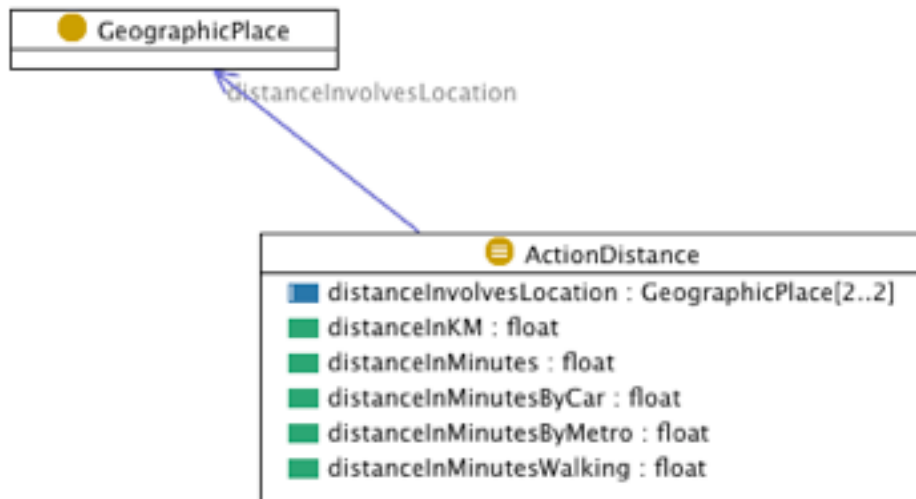
Illustration 1 (TopBraid notation):

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Reusable OWL representation: [http://hem.hj.se/~haka/ontologies/2011/11/](http://hem.hj.se/~haka/ontologies/2011/11/ActionDistance.owl)

[ActionDistance.owl](http://hem.hj.se/~haka/ontologies/2011/11/ActionDistance.owl)

Example usage: <http://hem.hj.se/~haka/ontologies/Examples/ActionDistanceExample.owl>



Domain: General

Maturity level: Draft

Purpose: To model distance between two geographical places in terms of both physical distance but also distance as measured in time required to get between the two places using different modes of transport.

Example use cases:

- Getting between two places quickly using either bus or subway.
- Calculating response time for emergency management purposes.

Application guidelines:

- **GeographicPlace** is linked to existing classes in target ontology using subsumption or equivalence links.
- For each link between two **GeographicPlace** instances, an **ActionDistance** instance is created, reifying the relation.
- This **ActionDistance** instance can use a number of datatype properties to denote the distances by car, metro, walking, etc. The **DistanceInMinutes** property can also be subclassed further for customization.

Competency Questions:

- How long is it between X and Y using the metro?
- How far apart are Z and W?

Requirements:

- A vocabulary suitable for modelling geographic places is helpful but not required to make use of this pattern.

Consequences:

- No known consequences.