Create and edit faux properties

Overview

The emphasis in ontology design has been fewer properties connecting more classes. For example, we see that the relationship between a Person, an Authorship, and an Article is very similar to the relationship between a Person, an Award Receipt and an Award. Similarly, a data property can be re-used by a set of classes and its subclasses.
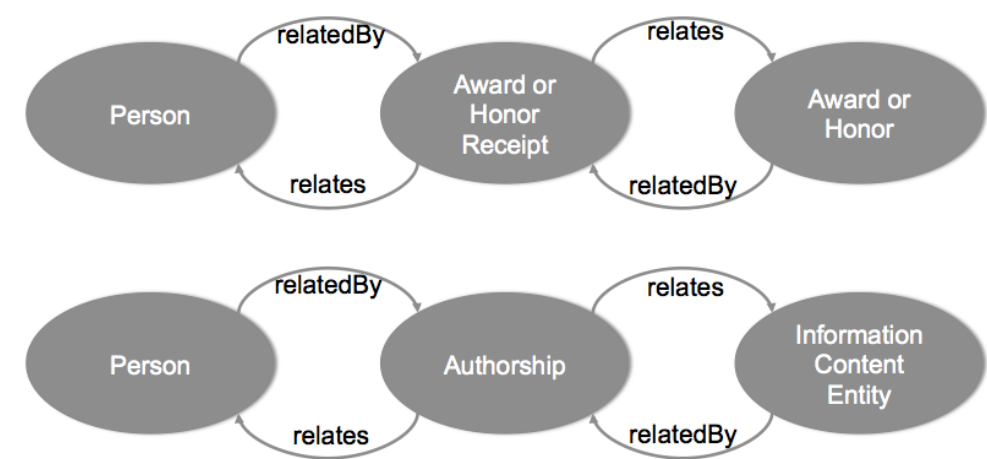

The profile pages in VIVO have been organized by properties. This re-use of properties makes it difficult to organize information on the page. Not only do we want to see at a glance the difference between an authorship and a received award; we may also want to display them in different areas of the page, using different custom views, etc.

VIVO allows us to create "faux" properties, as restrictions on object or data properties. The faux property has the same property URI as its base property. Range of faux data properties is always the same as range of base data property. Domain and range of faux object properties and domain of faux data properties are limited to not disjoint classes. Once we have established these criteria, we can assign display properties to the faux property, just as if it were its own property with its own URI.

In this way, we can define faux properties as follows:

URI	Domain	Range	label	property group
relatedBy	Person	Award or Honor Receipt	awards and honors	Background
relatedBy	Person	Authorship	selected publications	Publications
relatedBy	Award or Honor	Award or Honor Receipt	receipts	Overview
relatedBy	Information Content Entity	Authorship	authors	Overview
relates	Award or Honor Receipt	Person	award or honor for	Overview
relates	Award or Honor	Award or Honor Receipt	receipt of	Overview

Now, these same relationships display quite differently:
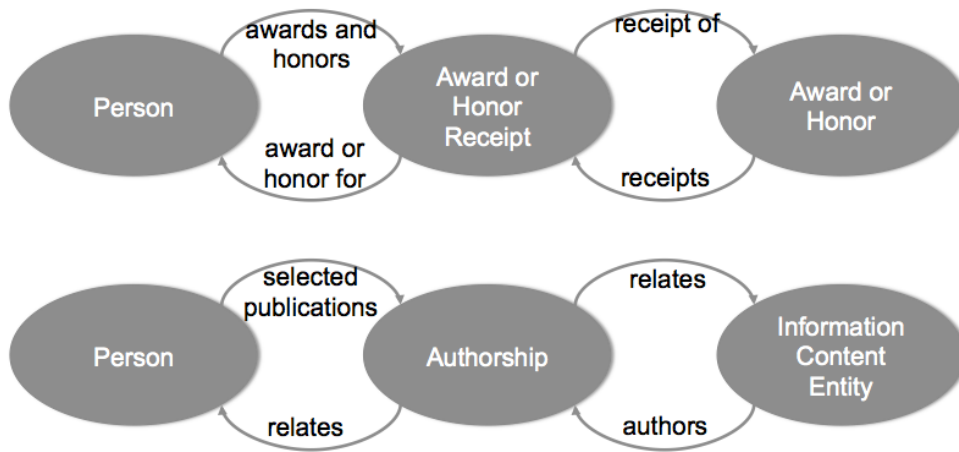
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Baker, Able | Faculty Member

Publications in VIVO
1 total ℹ️

🖼️ Co-author Network

🖼️ Map of Science

🔗 ▦

Publications | Background | Contact | View All

Publications

selected publications

academic article

Baloney. *Delicatessen.*

Background

awards and honors

Blue Cross, conferred by The Blue Cross Organization

Contact

full name

Able Baker

In general, it makes sense to partition all of a property into faux properties. Then the base property is set to be invisible (except to the root user), and the faux properties display the desired information.

What do you need to know?

How to follow the GUI for faux properties.

Getting started

VIVO comes with a default set of faux properties. You can edit them to suit your display requirements, or make more extensive modifications.

Creating a faux property

First, navigate to the control panel for the property (object or data) you want to create a faux property for. The control panel can be accessed by clicking **O bject Property Hierarchy** or **Data Property Hierarchy** on the Site Administration Page, then clicking on an object property, i.e. related by, or in the case Data Property Hierarchy by clicking on a data property, i.e. additional name. The Create New Faux Property button can be found next to a list of that property's existing faux properties.

Editing a faux property

There are several ways to navigate to the Faux Property Editing Form. Perhaps the most common way is to show the profile page for an individual, and turn on **verbose property display**.

In this example, we see that `positions` is a faux property of `vivo:relatedBy`. If you click on the link for `positions`, you will see the Faux Property Editing Form for `positions`. On the other hand, if you click the link for `vivo:relatedBy`, you will see the Object Property Editing Form for `vivo:relatedBy`. In addition to the parameters for `vivo:relatedBy`, you will also see links to each of the faux properties that are based on it:

From each of these pages, you can modify or delete the faux property that is displayed.

Alternatively, the Faux Property Editing form can be accessed by navigating to the Site Administration Page and clicking **Faux Property Listing**. This will display the complete list of faux properties. Click the title to access the editing form for that faux property.

Note: Faux property custom list views are configured in the Faux Property Editing form, rather than as documented in Custom List View Configuration for ontology properties.