

TO

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Definitions

Preferred Name

quality trait

Definitions

Quality traits are often also classified as belonging to another upper level class such as: anatomy and morphology trait (TO:0000017), biochemical trait (TO:0000277), growth and development trait (TO:0000357), stature or vigor trait (TO:0000133) and so on. A plant trait (TO:0000387) that is often associated with the commercial and /or economical value of the plant product, or its overall improvement.

- Definitions should support reasoning (they will be translated into logical terms)
- To this end they should be as short as possible
 - supplementary remarks should be included in Comments

Two-part definitions

- Every definition should have the form
- A =Def. a B which Cs

where B is the parent term of A in the ontology

The definition tells us what it is about those Bs in virtue of which they are As.

Compare: human =def. animal which is rational

2-part definitions

- allow the job of building definitions to provide a control on the correctness of the ontology
- allows the ontology to control the correctness of the definition

But this works only if every term has at most one single parent term in the asserted version of your ontology

The job of find this single parent term forces you to think about what a term really means

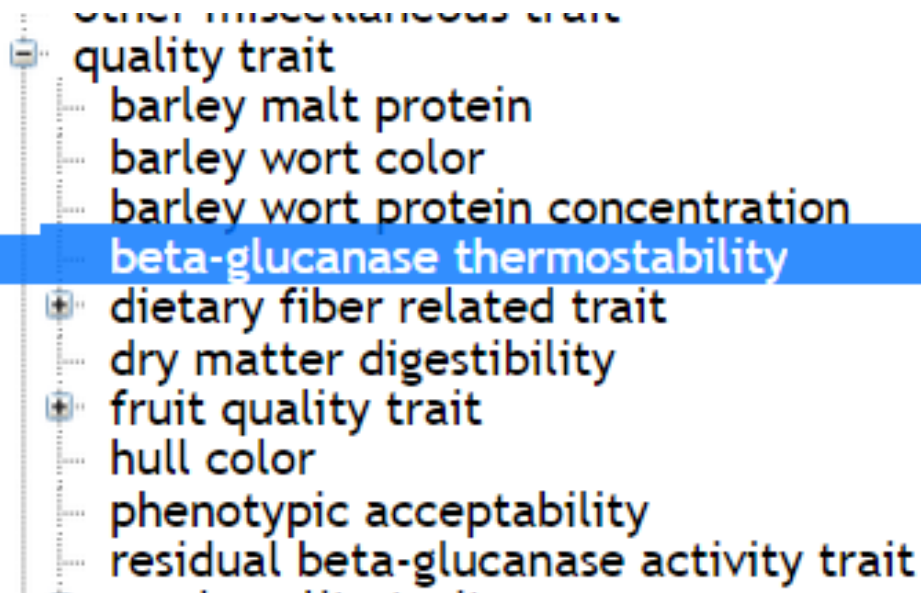
Asserted vs. inferred ontology

- The asserted version is the backbone created when each term has one single parent
- The best parent of: *blue car* is *car*, not *blue thing*
- But we can *infer* from the fact that something is a *blue car* to the fact that it is a blue thing. These inferences can be added by Reasoners to create the inferred version of the ontology.

The first job

- is to work very hard to find the backbone of TO that can work as the asserted ontology

These things seem clearly out of place



Other miscellaneous trait
quality trait
barley malt protein
barley wort color
barley wort protein concentration
beta-glucanase thermostability
dietary fiber related trait
dry matter digestibility
fruit quality trait
hull color
phenotypic acceptability
residual beta-glucanase activity trait