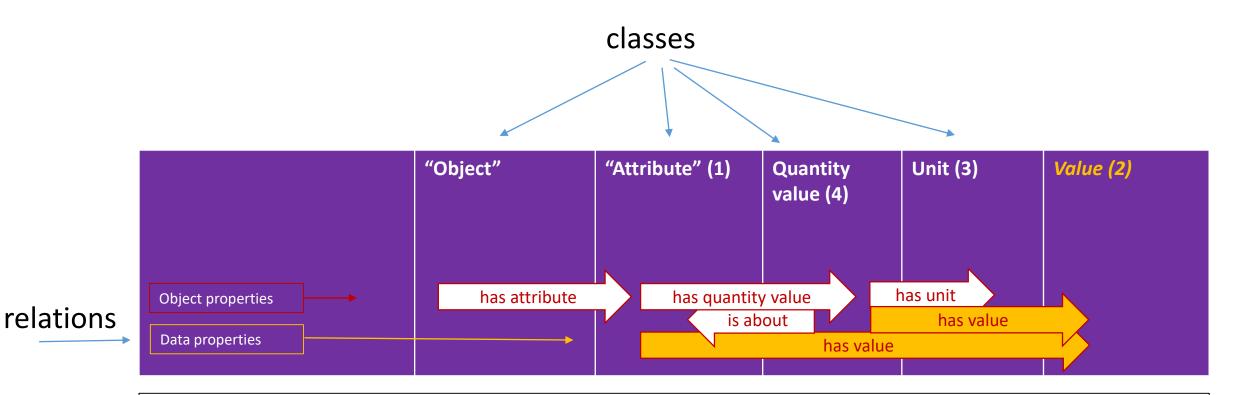
How to connect "hub hight" to "wind turbine"?

- Or more general: "How to connect `objects` and `attributes`?
- Current discussion, e.g. Meta-Issue: Example case for instance data description in triples #492
- Never implemented such a connection yet in the OEO
- Building the OEO is a community learning process!

- 1. Clarify ambiguous terms used in this context: "object", "attribute", "property"
- 2. Introduce process for "How to connect `objects` and `attributes`?"
- 3. Does this address our "main" problem? What is not yet addressed? Which questions are still open? Do we need to establish further processes?



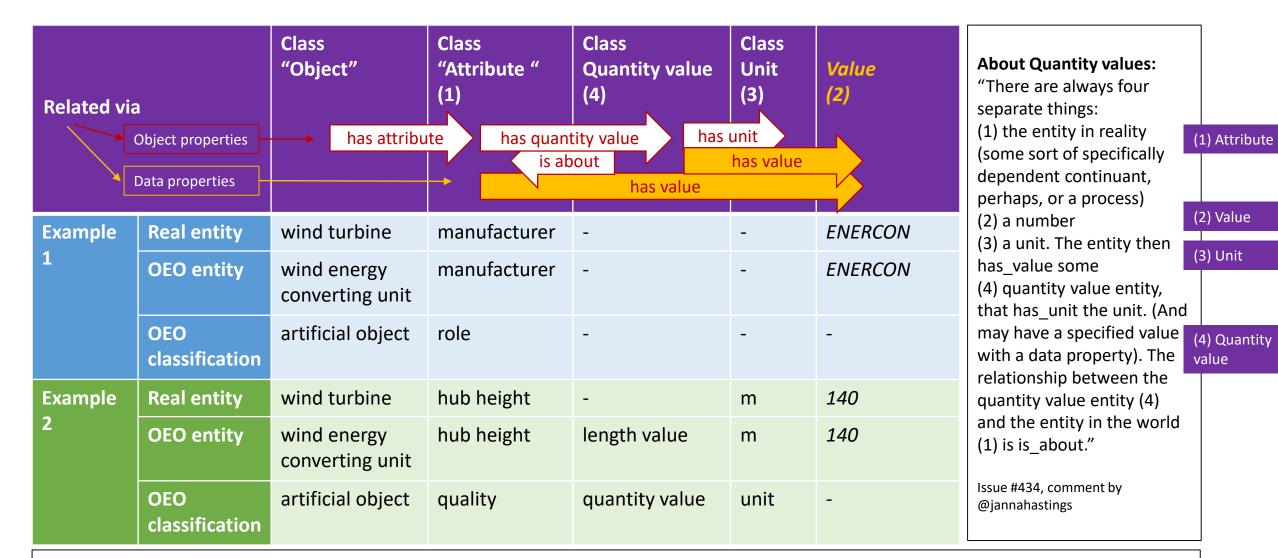
About Quantity values:

"There are always four separate things:

- (1) the entity in reality (some sort of specifically dependent continuant, perhaps, or a process)
- (2) a number
- (3) a unit. The entity then has_value some
- (4) quantity value entity, that has_unit the unit. (And may have a specified value with a data property).

The relationship between the quantity value entity (4) and the entity in the world (1) is is about."

Issue #434, comment by @jannahastings

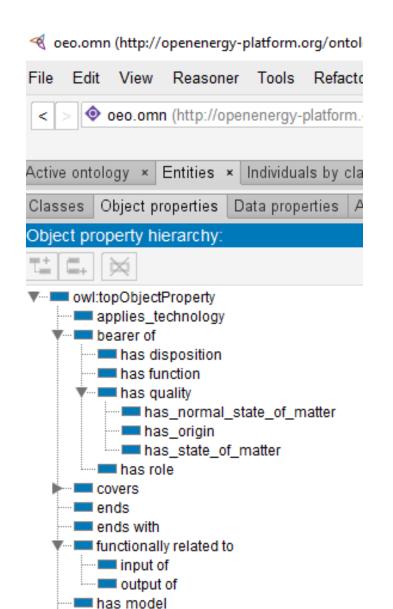


Connection of object, attribute and value via object property and data property relations:

Example 1: `wind turbine` (has attribute `manufacturer` (has value ENERCON))

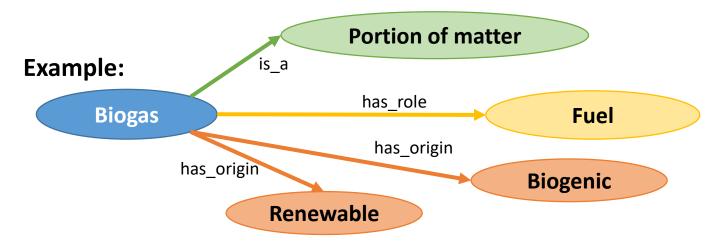
Example 2: `wind turbine` (has attribute `hub height` (has quantity value `length value` (has unit `m`, has value 140)))

What do we mean when we say "property"?



Protégé: Properties represent relations between classes

BFO: "The relations that obtain between and among them [the classes] need to be defined also, and we further need to provide axioms, for example, representing how specific categories are related to each other within the ontology. Definitions and axioms can then be combined together for purposes of reasoning. "(Source: Arp, Smith, Spear, "Building Ontologies with BFO", 2015)



Further questions

- Are "quantity value"-values going to be stored within the OEO or externally (e.g. OEP)?
 - Ontologie ist für die Annotierung von Daten da. Lieber Konzepte ablegen und Individuen außerhalb ablegen.
 - EnArgus hat viele Individuen abgelegt, viel Arbeit, das zu pflegen

- Does "quantity value" need exactly one unit and one value?
 - What about entities like "monetary value" which might need a "currency" and a "base year"?