```
:label rdf:type owl:AnnotationProperty .  rdfs: range \qquad rdf: PlainLiteral \ . \\ rdfs: subPropertyOf \ rdf: label \\ :Apartment \qquad :label \qquad "Apartment"@en, \\ "Appartement"@nl, \\ "\Delta\iota\alpha\mu\epsilon\rho\iota\sigma\mu\alpha"@el \ . \\ \label{eq:controlled}
```

There are a couple of things going on in the above example. We first define the :label property to be of type owl:AnnotationProperty with a range of rdf:PlainLiteral. This is a special RDF datatype for natural language text – that is, plain literals can have a language tag. We furthermore define the :label property to be a subproperty of rdf:label, and then give three labels to the :Apartment class in English, Dutch, and Greek.

In the general case, annotation properties will have literal values, but they may be used to relate non-literal resources as well.

**Top and Bottom Properties** All object properties in OWL2 are a subproperty of owl:topObjectProperty. This property is defined as the property that relates *all* individuals in the ontology. Conversely, owl:bottomObjectProperty is the property that relates *no* individuals. Similarly, owl:topDataProperty relates all individuals to any possible literal value, and owl:bottomDataProperty relates no individual to any literal value.

**Transitive Properties** From the discussion of rdfs:subClassOf we know that this relation is *transitive*; every class is a subclass of all superclasses of its direct superclass. Clearly there are other relations which are transitive as well, such as :isPartOf or :isCheaperThan. We can define a property as transitive as follows:

```
:isPartOf rdf:type owl:ObjectProperty ;
rdf:type owl:TransitiveProperty .
```