

**IRI:**

[http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025)

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**Other visualisation :**

[Ontology source](#) - [WebVowl](#)

## Abstract

This ontology was developed by Fabrizio Ducati within the framework of the EU-funded FIRS project. It serves as the reference solution for the introductory practical workshop delivered as part of the 5th Una Quantum Conference, held at the University of Bologna from 18 to 19 December. For any questions or clarifications, please contact [fabrizio.ducati@univ-amu.fr](mailto:fabrizio.ducati@univ-amu.fr). My thanks go to Giuseppe Guarino and Una Quantum for their kind invitation, to Michael De Bellis for his support and valuable advice during the ontology modelling process, and to the European Commission for the generous funding provided through the FIRS project.

## Table of Content

1. [Classes](#)
2. [Object Properties](#)
3. [Data Properties](#)
4. [Annotation Properties](#)
5. [General Axioms](#)
6. [Namespace Declarations](#)

## Classes

[archaeological classification](#) [artefact identifier](#) [ceramic class](#) [ceramic shape](#) [ceramic type](#)  
[discovery area](#) [discovery layer](#) [discovery palce](#) [discovery site](#) [discovery space](#) [location](#)  
[production place](#) [technology](#)

### [archaeological classification](#)<sup>C</sup>

back to [ToC](#) or [Class ToC](#)

**IRI:**

[http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#ArchaeologicalClassification](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#ArchaeologicalClassification)

**has sub-classes**

[ceramic class](#)<sup>C</sup>, [ceramic shape](#)<sup>C</sup>, [ceramic type](#)<sup>C</sup>

**is disjoint with**

[artefact identifier](#)<sup>C</sup>, [location](#)<sup>C</sup>, [technology](#)<sup>C</sup>

### [artefact identifier](#)<sup>C</sup>

back to [ToC](#) or [Class ToC](#)

**IRI:** [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#ArtefactIdentifier](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#ArtefactIdentifier)

The unique identifier assigned to each artefact within a given project. Different marking methods may be employed across projects.

**has super-classes**

[has ceramic class](#)<sup>Op</sup> **some** [ceramic class](#)<sup>C</sup>  
[has ceramic shape](#)<sup>Op</sup> **some** [ceramic shape](#)<sup>C</sup>  
[has ceramic type](#)<sup>Op</sup> **some** [ceramic type](#)<sup>C</sup>

[has discovery area](#)<sup>op</sup> **some** [discovery area](#)<sup>c</sup>  
[has discovery layer](#)<sup>op</sup> **some** [discovery layer](#)<sup>c</sup>  
[has discovery site](#)<sup>op</sup> **some** [discovery site](#)<sup>c</sup>  
[has discovery space](#)<sup>op</sup> **some** [discovery space](#)<sup>c</sup>  
[has production place](#)<sup>op</sup> **some** [production place](#)<sup>c</sup>  
[has preserved part](#)<sup>dp</sup> **some** string  
[has specific workshop](#)<sup>dp</sup> **some** string

**is in domain of**

[has discovery area](#)<sup>op</sup>, [has discovery layer](#)<sup>op</sup>, [has discovery site](#)<sup>op</sup>, [has discovery space](#)<sup>op</sup>, [has preserved part](#)<sup>dp</sup>, [has specific workshop](#)<sup>dp</sup>

**is disjoint with**

[archaeological classification](#)<sup>c</sup>, [location](#)<sup>c</sup>, [technology](#)<sup>c</sup>

## ceramic class<sup>c</sup>

back to [ToC](#) or [Class ToC](#)

**IRI:** [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#CeramicClass](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#CeramicClass)

A group of objects belonging to the same functional category that share the same fabric or fabric group, as well as comparable shaping and coating techniques. A ceramic class is typically produced within a specific region and within a broadly similar chronological range.

**has super-classes**

[archaeological classification](#)<sup>c</sup>  
[has ceramic shape](#)<sup>op</sup> **some** [ceramic shape](#)<sup>c</sup>  
[has ceramic type](#)<sup>op</sup> **some** [ceramic type](#)<sup>c</sup>  
[has production place](#)<sup>op</sup> **some** [production place](#)<sup>c</sup>

**is in range of**

[has ceramic class](#)<sup>op</sup>

**is disjoint with**

[ceramic shape](#)<sup>c</sup>, [ceramic type](#)<sup>c</sup>

## ceramic shape<sup>c</sup>

back to [ToC](#) or [Class ToC](#)

**IRI:** [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#CeramicShape](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#CeramicShape)

The specific shape or form of an object, such as a bowl, plate, or flat-bottomed amphora.

**has super-classes**

[archaeological classification](#)<sup>c</sup>  
[has technology](#)<sup>op</sup> **some** [technology](#)<sup>c</sup>

**is in domain of**

[has technology](#)<sup>op</sup>

**is in range of**

[has ceramic shape](#)<sup>op</sup>

**is disjoint with**

[ceramic class](#)<sup>c</sup>, [ceramic type](#)<sup>c</sup>

## ceramic type<sup>c</sup>

back to [ToC](#) or [Class ToC](#)

**IRI:** [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#CeramicType](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#CeramicType)

A set of objects sharing similar morphological traits, often assigned to the same class and chronological range. When the morphology is indeterminate, this is explicitly noted.

**has super-classes**

[archaeological classification](#)<sup>c</sup>

[has ceramic class](#)<sup>op</sup> **some** [ceramic class](#)<sup>c</sup>  
[has ceramic shape](#)<sup>op</sup> **some** [ceramic shape](#)<sup>c</sup>  
[has production place](#)<sup>op</sup> **some** [production place](#)<sup>c</sup>

is in range of

[has ceramic type](#)<sup>op</sup>

is disjoint with

[ceramic class](#)<sup>c</sup>, [ceramic shape](#)<sup>c</sup>

## discovery area<sup>c</sup>

back to [ToC](#) or [Class ToC](#)

**IRI:** [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#DiscoveryArea](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#DiscoveryArea)

When available, the area or trench in which the space and layer were excavated (e.g., Area A, Trial Trench).

has super-classes

[discovery palce](#)<sup>c</sup>

is in range of

[has discovery area](#)<sup>op</sup>

is disjoint with

[discovery layer](#)<sup>c</sup>, [discovery site](#)<sup>c</sup>, [discovery space](#)<sup>c</sup>

## discovery layer<sup>c</sup>

back to [ToC](#) or [Class ToC](#)

**IRI:** [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#DiscoveryLayer](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#DiscoveryLayer)

The archaeological layer in which an artefact was found.

has super-classes

[discovery palce](#)<sup>c</sup>

[has excavation year](#)<sup>dp</sup> **some** integer

is in domain of

[has excavation year](#)<sup>dp</sup>

is in range of

[has discovery layer](#)<sup>op</sup>

is disjoint with

[discovery area](#)<sup>c</sup>, [discovery site](#)<sup>c</sup>, [discovery space](#)<sup>c</sup>

## discovery palce<sup>c</sup>

back to [ToC](#) or [Class ToC](#)

**IRI:** [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#DiscoveryPalce](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#DiscoveryPalce)

has super-classes

[location](#)<sup>c</sup>

[locates](#)<sup>op</sup> **some** [discovery palce](#)<sup>c</sup>

has sub-classes

[discovery area](#)<sup>c</sup>, [discovery layer](#)<sup>c</sup>, [discovery site](#)<sup>c</sup>, [discovery space](#)<sup>c</sup>

is in domain of

[is part of](#)<sup>op</sup>

is in range of

[is part of](#)<sup>op</sup>

is disjoint with

[production place](#)<sup>c</sup>

## discovery site<sup>c</sup>

back to [ToC](#) or [Class ToC](#)

**IRI:** [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#DiscoverySite](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#DiscoverySite)

The site associated with the excavation.

### has super-classes

[discovery palce<sup>c</sup>](#)

### is in range of

[has discovery site<sup>op</sup>](#)

### is disjoint with

[discovery area<sup>c</sup>](#), [discovery layer<sup>c</sup>](#), [discovery space<sup>c</sup>](#)

## discovery space<sup>c</sup>

back to [ToC](#) or [Class ToC](#)

**IRI:** [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#DiscoverySpace](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#DiscoverySpace)

When available, the type of space in which the layer was excavated, such as a room, cesspit, or courtyard.

### has super-classes

[discovery palce<sup>c</sup>](#)

### is in range of

[has discovery space<sup>op</sup>](#)

### is disjoint with

[discovery area<sup>c</sup>](#), [discovery layer<sup>c</sup>](#), [discovery site<sup>c</sup>](#)

## location<sup>c</sup>

back to [ToC](#) or [Class ToC](#)

**IRI:** [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#Location](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#Location)

### has sub-classes

[discovery palce<sup>c</sup>](#), [production place<sup>c</sup>](#)

### is disjoint with

[archaeological classification<sup>c</sup>](#), [artefact identifier<sup>c</sup>](#), [technology<sup>c</sup>](#)

## production place<sup>c</sup>

back to [ToC](#) or [Class ToC](#)

**IRI:** [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#ProductionPlace](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#ProductionPlace)

The broad production region or place associated with the origin of an artefact, such as Africa, the Eastern Mediterranean, or Italy. In some cases, this origin is reflected directly in the class name.

### has super-classes

[location<sup>c</sup>](#)

### is in range of

[has production place<sup>op</sup>](#)

### is disjoint with

[discovery palce<sup>c</sup>](#)

## technology<sup>c</sup>

back to [ToC](#) or [Class ToC](#)

**IRI:** [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#Technology](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#Technology)

The production method or technological process employed to manufacture a specific object or class.

### is in range of

<a href="#">has technology</a> <sup>op</sup> <b>is disjoint with</b> <a href="#">archaeological classification</a> <sup>c</sup> , <a href="#">artefact identifier</a> <sup>c</sup> , <a href="#">location</a> <sup>c</sup>
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## Object Properties

<a href="#">has ceramic class</a> <a href="#">has ceramic shape</a> <a href="#">has ceramic type</a> <a href="#">has discovery area</a> <a href="#">has discovery layer</a> <a href="#">has discovery site</a> <a href="#">has discovery space</a> <a href="#">has production place</a> <a href="#">has technology</a> <a href="#">is ceramic class of</a> <a href="#">is ceramic shape of</a> <a href="#">is ceramic type of</a> <a href="#">is discovery area of</a> <a href="#">is discovery layer of</a> <a href="#">is discovery site of</a> <a href="#">is discovery space of</a> <a href="#">is part of</a> <a href="#">is production place of</a> <a href="#">is technology of</a> <a href="#">locates</a>
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<a href="#">has ceramic class</a> <sup>op</sup>	<a href="#">back to ToC</a> or <a href="#">Object Property ToC</a>
<b>IRI:</b> <a href="http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#hasCeramicClass">http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#hasCeramicClass</a>	
<b>has super-properties</b> top object property	
<b>has domain</b> <a href="#">artefact identifier</a> <sup>c</sup> or <a href="#">ceramic type</a> <sup>c</sup>	
<b>has range</b> <a href="#">ceramic class</a> <sup>c</sup>	
<b>is inverse of</b> <a href="#">is ceramic class of</a> <sup>op</sup>	

<a href="#">has ceramic shape</a> <sup>op</sup>	<a href="#">back to ToC</a> or <a href="#">Object Property ToC</a>
<b>IRI:</b> <a href="http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#hasCeramicShape">http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#hasCeramicShape</a>	
<b>has super-properties</b> top object property	
<b>has domain</b> <a href="#">artefact identifier</a> <sup>c</sup> or <a href="#">ceramic class</a> <sup>c</sup> or <a href="#">ceramic type</a> <sup>c</sup>	
<b>has range</b> <a href="#">ceramic shape</a> <sup>c</sup>	
<b>is inverse of</b> <a href="#">is ceramic shape of</a> <sup>op</sup>	

<a href="#">has ceramic type</a> <sup>op</sup>	<a href="#">back to ToC</a> or <a href="#">Object Property ToC</a>
<b>IRI:</b> <a href="http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#hasCeramicType">http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#hasCeramicType</a>	
<b>has super-properties</b> top object property	
<b>has domain</b> <a href="#">artefact identifier</a> <sup>c</sup> or <a href="#">ceramic class</a> <sup>c</sup>	
<b>has range</b> <a href="#">ceramic type</a> <sup>c</sup>	
<b>is inverse of</b> <a href="#">is ceramic type of</a> <sup>op</sup>	

<a href="#">has discovery area</a> <sup>op</sup>	<a href="#">back to ToC</a> or <a href="#">Object Property ToC</a>
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**IRI:** [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#hasDiscoveryArea](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#hasDiscoveryArea)

**has super-properties**  
top object property

**has domain**  
[artefact identifier](#)<sup>c</sup>

**has range**  
[discovery area](#)<sup>c</sup>

**is inverse of**  
[is discovery area of](#)<sup>op</sup>

**has discovery layer**<sup>op</sup>

back to [ToC](#) or [Object Property ToC](#)

**IRI:** [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#hasDiscoveryLayer](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#hasDiscoveryLayer)

**has super-properties**  
top object property

**has domain**  
[artefact identifier](#)<sup>c</sup>

**has range**  
[discovery layer](#)<sup>c</sup>

**is inverse of**  
[is discovery layer of](#)<sup>op</sup>

**has discovery site**<sup>op</sup>

back to [ToC](#) or [Object Property ToC](#)

**IRI:** [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#hasDiscoverySite](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#hasDiscoverySite)

**has super-properties**  
top object property

**has domain**  
[artefact identifier](#)<sup>c</sup>

**has range**  
[discovery site](#)<sup>c</sup>

**is inverse of**  
[is discovery site of](#)<sup>op</sup>

**has discovery space**<sup>op</sup>

back to [ToC](#) or [Object Property ToC](#)

**IRI:** [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#hasDiscoverySpace](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#hasDiscoverySpace)

**has super-properties**  
top object property

**has domain**  
[artefact identifier](#)<sup>c</sup>

**has range**  
[discovery space](#)<sup>c</sup>

**is inverse of**  
[is discovery space of](#)<sup>op</sup>

**has production place**<sup>op</sup>

back to [ToC](#) or [Object Property ToC](#)

**IRI:** [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#hasProductionPlace](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#hasProductionPlace)

has domain

[artefact identifier](#)<sup>C</sup> or [ceramic class](#)<sup>C</sup> or [ceramic type](#)<sup>C</sup>

has range

[production place](#)<sup>C</sup>

is inverse of

[is production place of](#)<sup>op</sup>

has technology<sup>op</sup>

back to [ToC](#) or [Object Property ToC](#)

IRI: [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#hasTechnology](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#hasTechnology)

has super-properties

[top object property](#)

has domain

[ceramic shape](#)<sup>C</sup>

has range

[technology](#)<sup>C</sup>

is inverse of

[is technology of](#)<sup>op</sup>

is ceramic class of<sup>op</sup>

back to [ToC](#) or [Object Property ToC](#)

IRI: [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#isCeramicClassOf](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#isCeramicClassOf)

has super-properties

[top object property](#)

is inverse of

[has ceramic class](#)<sup>op</sup>

is ceramic shape of<sup>op</sup>

back to [ToC](#) or [Object Property ToC](#)

IRI: [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#isCeramicShapeOf](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#isCeramicShapeOf)

has super-properties

[top object property](#)

is inverse of

[has ceramic shape](#)<sup>op</sup>

is ceramic type of<sup>op</sup>

back to [ToC](#) or [Object Property ToC](#)

IRI: [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#isCeramicTypeOf](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#isCeramicTypeOf)

has super-properties

[top object property](#)

is inverse of

[has ceramic type](#)<sup>op</sup>

is discovery area of<sup>op</sup>

back to [ToC](#) or [Object Property ToC](#)

IRI: [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#isDiscoveryAreaOf](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#isDiscoveryAreaOf)

has super-properties

[top object property](#)

<b>is inverse of</b> <a href="#">has discovery area</a> <sup>op</sup>	
<b>is discovery layer of</b> <sup>op</sup> <div> <a href="#">back to ToC</a> or <a href="#">Object Property ToC</a> </div>	
<b>IRI:</b> <a href="http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#isDiscoveryLayerOf">http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#isDiscoveryLayerOf</a>	
<b>has super-properties</b> top object property	
<b>is inverse of</b> <a href="#">has discovery layer</a> <sup>op</sup>	
<b>is discovery site of</b> <sup>op</sup> <div> <a href="#">back to ToC</a> or <a href="#">Object Property ToC</a> </div>	
<b>IRI:</b> <a href="http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#isDiscoverySiteOf">http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#isDiscoverySiteOf</a>	
<b>has super-properties</b> top object property	
<b>is inverse of</b> <a href="#">has discovery site</a> <sup>op</sup>	
<b>is discovery space of</b> <sup>op</sup> <div> <a href="#">back to ToC</a> or <a href="#">Object Property ToC</a> </div>	
<b>IRI:</b> <a href="http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#isDiscoverySpaceOf">http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#isDiscoverySpaceOf</a>	
<b>has super-properties</b> top object property	
<b>is inverse of</b> <a href="#">has discovery space</a> <sup>op</sup>	
<b>is part of</b> <sup>op</sup> <div> <a href="#">back to ToC</a> or <a href="#">Object Property ToC</a> </div>	
<b>IRI:</b> <a href="http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#isPartOf">http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#isPartOf</a>	
<b>has super-properties</b> top object property	
<b>has domain</b> <a href="#">discovery_palce</a> <sup>c</sup>	
<b>has range</b> <a href="#">discovery_palce</a> <sup>c</sup>	
<b>is inverse of</b> <a href="#">locates</a> <sup>op</sup>	
<b>is production place of</b> <sup>op</sup> <div> <a href="#">back to ToC</a> or <a href="#">Object Property ToC</a> </div>	
<b>IRI:</b> <a href="http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#isProductionPlaceOf">http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#isProductionPlaceOf</a>	
<b>is inverse of</b> <a href="#">has production place</a> <sup>op</sup>	
<b>is technology of</b> <sup>op</sup> <div> <a href="#">back to ToC</a> or <a href="#">Object Property ToC</a> </div>	
<b>IRI:</b> <a href="http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#isTechnologyOf">http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#isTechnologyOf</a>	



**has super-properties**  
top object property  
**is inverse of**  
[has technology](#)<sup>op</sup>

[locates](#)<sup>op</sup>

back to [ToC](#) or [Object Property ToC](#)

**IRI:** [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#Locates](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#Locates)

**has super-properties**  
top object property  
**is inverse of**  
[is part of](#)<sup>op</sup>

## Data Properties

[has excavation year](#) [has preserved part](#) [has specific workshop](#)

[has excavation year](#)<sup>dp</sup>

back to [ToC](#) or [Data Property ToC](#)

**IRI:** [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#hasExcavationYear](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#hasExcavationYear)

**has super-properties**  
top data property  
**has domain**  
[discovery layer](#)<sup>c</sup>  
**has range**  
integer

[has preserved part](#)<sup>dp</sup>

back to [ToC](#) or [Data Property ToC](#)

**IRI:** [http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#hasPreservedPart](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#hasPreservedPart)

**has super-properties**  
top data property  
**has domain**  
[artefact identifier](#)<sup>c</sup>  
**has range**  
string

[has specific workshop](#)<sup>dp</sup>

back to [ToC](#) or [Data Property ToC](#)

**IRI:**  
[http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#hasSpecificWorkshop](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#hasSpecificWorkshop)

**has super-properties**  
top data property  
**has domain**  
[artefact identifier](#)<sup>c</sup>  
**has range**  
string

## Annotation Properties

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[bibliographic citation](#)<sup>ap</sup>

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**IRI:** <http://purl.org/dc/terms/bibliographicCitation>

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## General Axioms

All Disjoint Classes

[back to ToC](#)

[archaeological classification](#)<sup>c</sup>, [artefact identifier](#)<sup>c</sup>, [location](#)<sup>c</sup>, [technology](#)<sup>c</sup>

All Disjoint Classes

[back to ToC](#)

[ceramic class](#)<sup>c</sup>, [ceramic shape](#)<sup>c</sup>, [ceramic type](#)<sup>c</sup>

All Disjoint Classes

[back to ToC](#)

[discovery area](#)<sup>c</sup>, [discovery layer](#)<sup>c</sup>, [discovery site](#)<sup>c</sup>, [discovery space](#)<sup>c</sup>

## Namespace Declarations

[back to ToC](#)

**default namespace**

[http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq\\_workshop\\_2025#](http://www.semanticweb.org/fabrizio/ontologies/2025/11/uq_workshop_2025#)

**06**

<https://romanpotterystudy.org.uk/wp-content/uploads/2016/06/>

**11**

<http://www.semanticweb.org/fabrizio/ontologies/2025/11/>

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**en**

<https://firs-project.univ-amu.fr/en/>

**file** <https://hal.science/hal-04082349v1/file/>  
**id** <https://cordis.europa.eu/project/id/>  
**orcid-org** <https://orcid.org/>  
**owl** <http://www.w3.org/2002/07/owl#>  
**rdf** <http://www.w3.org/1999/02/22-rdf-syntax-ns#>  
**rdfs** <http://www.w3.org/2000/01/rdf-schema#>  
**terms** <http://purl.org/dc/terms/>  
**xsd** <http://www.w3.org/2001/XMLSchema#>