

```
rdfs:subPropertyOf owl:topObjectProperty .
```

https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#hasTopping

:hasTopping rdf:type owl:ObjectProperty ;

owl:inverseOf :isToppingOf ;

rdfs:domain :Pizza ;

rdfs:range :PizzaTopping .

https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#isToppingOf

:isToppingOf rdf:type owl:ObjectProperty ;

rdfs:domain :Pizza ;

rdfs:range :PizzaTopping .

https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#sellsAlcohol

:sellsAlcohol rdf:type owl:ObjectProperty ;

rdfs:domain :Venue ;

owl:propertyDisjointWith <https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#doesn'tsellAlcohol> .

https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#doesn'tsellAlcohol

<https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#doesn'tsellAlcohol> rdf:type owl:ObjectProperty ;

rdfs:domain :Venue .

#####

Data properties

#####

https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#hasPostcode

:hasPostcode rdf:type owl:DatatypeProperty ;
 rdfs:subPropertyOf owl:topDataProperty ;
 rdfs:domain :Location ;
 rdfs:range xsd:string .

https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#hasValue

:hasValue rdf:type owl:DatatypeProperty ;
 rdfs:domain :Price ;
 rdfs:range xsd:decimal .

https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#isCurrency

:isCurrency rdf:type owl:DatatypeProperty ;
 rdfs:subPropertyOf owl:topDataProperty ;
 rdfs:domain :Price ;
 rdfs:range xsd:string .

#####

Classes

#####

https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#AmericanRestaurant

:AmericanRestaurant rdf:type owl:Class ;
 rdfs:subClassOf :Venue ,

```
[ rdf:type owl:Restriction ;  
  owl:onProperty :sellsAlcohol ;  
  owl:minQualifiedCardinality "0"^^xsd:nonNegativeInteger ;  
  owl:onClass :AmericanRestaurant  
].
```

https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Bacon

```
:Bacon rdf:type owl:Class ;  
  rdfs:subClassOf :PizzaTopping ;  
  rdfs:comment "Boczek"@pl .
```

https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Bar

```
:Bar rdf:type owl:Class ;  
  rdfs:subClassOf :Venue ,  
  [ rdf:type owl:Restriction ;  
    owl:onProperty :sellsAlcohol ;  
    owl:someValuesFrom :Bar  
  ] ;  
  rdfs:comment "Bar has to sell some alcohol. Kids are not allowed." .
```

https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#CaliforniaPizza

```
:CaliforniaPizza rdf:type owl:Class ;  
  rdfs:subClassOf :NamedPizza ,  
  [ rdf:type owl:Restriction ;  
    owl:onProperty :hasTopping ;  
    owl:someValuesFrom :CheddarCheese
```

```

    ],
    [ rdf:type owl:Restriction ;
      owl:onProperty :hasTopping ;
      owl:someValuesFrom :Cheese
    ],
    [ rdf:type owl:Restriction ;
      owl:onProperty :hasTopping ;
      owl:someValuesFrom :Mushroom
    ],
    [ rdf:type owl:Restriction ;
      owl:onProperty :hasTopping ;
      owl:someValuesFrom :RomaTomatoes
    ],
    [ rdf:type owl:Restriction ;
      owl:onProperty :hasTopping ;
      owl:someValuesFrom :Spinach
    ],
    [ rdf:type owl:Restriction ;
      owl:onProperty :hasTopping ;
      owl:minQualifiedCardinality "0"^^xsd:nonNegativeInteger ;
      owl:onClass :ChickenBreast
    ] ;
    owl:disjointWith :HawaiianPizza ,
      :PizzaDaAli ;
    rdfs:comment "This is expensive pizza to make" .

```

https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#CheddarCheese

```
:CheddarCheese rdf:type owl:Class ;
```

```
rdfs:subClassOf :PizzaTopping ;  
owl:disjointWith :Mozzarella .
```

```
### https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Cheese  
:Cheese rdf:type owl:Class ;  
rdfs:subClassOf :PizzaTopping .
```

```
### https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#ChickenBreast  
:ChickenBreast rdf:type owl:Class ;  
rdfs:subClassOf :PizzaTopping .
```

```
### https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Food  
:Food rdf:type owl:Class .
```

```
### https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#FrenchRestaurant  
:FrenchRestaurant rdf:type owl:Class ;  
rdfs:subClassOf :Venue ,  
[ rdf:type owl:Restriction ;  
owl:onProperty :sellsAlcohol ;  
owl:minQualifiedCardinality "0"^^xsd:nonNegativeInteger ;  
owl:onClass :FrenchRestaurant  
] .
```

```
### https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Ham
```

```
:Ham rdf:type owl:Class ;  
    rdfs:subClassOf :PizzaTopping ;  
    rdfs:comment "Szynka"@pl .
```

https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#HawaiianPizza

```
:HawaiianPizza rdf:type owl:Class ;  
    rdfs:subClassOf :NamedPizza ,  
        [ rdf:type owl:Restriction ;  
          owl:onProperty :hasTopping ;  
          owl:someValuesFrom :Ham  
        ],  
        [ rdf:type owl:Restriction ;  
          owl:onProperty :hasTopping ;  
          owl:someValuesFrom :Pineapple  
        ],  
        [ rdf:type owl:Restriction ;  
          owl:onProperty :hasTopping ;  
          owl:minQualifiedCardinality "0"^^xsd:nonNegativeInteger ;  
          owl:onClass :Bacon  
        ] ;  
    owl:disjointWith :PizzaDaAli .
```

https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#ItalianRestaurant

```
:ItalianRestaurant rdf:type owl:Class ;  
    rdfs:subClassOf :Venue ,  
        [ rdf:type owl:Restriction ;  
          owl:onProperty :sellsAlcohol ;
```

```
        owl:minQualifiedCardinality "0"^^xsd:nonNegativeInteger ;  
        owl:onClass :ItalianRestaurant  
    ] .
```

```
### https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Location  
:Location rdf:type owl:Class .
```

```
### https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Mozzarella  
:Mozzarella rdf:type owl:Class ;  
    rdfs:subClassOf :PizzaTopping .
```

```
### https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Mushroom  
:Mushroom rdf:type owl:Class ;  
    rdfs:subClassOf :PizzaTopping .
```

```
### https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#NamedPizza  
:NamedPizza rdf:type owl:Class ;  
    rdfs:subClassOf :Pizza .
```

```
### https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Pineapple  
:Pineapple rdf:type owl:Class ;  
    rdfs:subClassOf :PizzaTopping ;  
    owl:disjointWith :Spinach ;  
    rdfs:comment "Canned or fresh." .
```


https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Pizza

:Pizza rdf:type owl:Class ;

 rdfs:subClassOf :Food ;

 owl:disjointWith :PizzaTopping .

https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzaDaAli

:PizzaDaAli rdf:type owl:Class ;

 rdfs:subClassOf :NamedPizza ,

 [rdf:type owl:Restriction ;

 owl:onProperty :hasTopping ;

 owl:someValuesFrom :Bacon

] ,

 [rdf:type owl:Restriction ;

 owl:onProperty :hasTopping ;

 owl:someValuesFrom :Cheese

] ,

 [rdf:type owl:Restriction ;

 owl:onProperty :hasTopping ;

 owl:someValuesFrom :Mushroom

] .

https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzaPlace

:PizzaPlace rdf:type owl:Class ;

 rdfs:subClassOf :Venue ,

 [rdf:type owl:Restriction ;

```
        owl:onProperty <https://www.city.ac.uk/inm713-  
in3067/2024/pawel_staszynski#doesn'tsellAlcohol> ;
```

```
        owl:allValuesFrom :PizzaPlace
```

```
    ] .
```

```
### https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzaTopping
```

```
:PizzaTopping rdf:type owl:Class ;
```

```
    rdfs:subClassOf :Food .
```

```
### https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzeriaDaAli
```

```
:PizzeriaDaAli rdf:type owl:Class ;
```

```
    rdfs:subClassOf :Venue ,
```

```
        [ rdf:type owl:Restriction ;
```

```
            owl:onProperty :hasPizza ;
```

```
            owl:someValuesFrom :PizzaDaAli
```

```
        ] ,
```

```
        [ rdf:type owl:Restriction ;
```

```
            owl:onProperty :sellsAlcohol ;
```

```
            owl:someValuesFrom :PizzeriaDaAli
```

```
        ] .
```

```
### https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Price
```

```
:Price rdf:type owl:Class .
```

```
### https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Restaurant
```

```
:Restaurant rdf:type owl:Class ;  
    rdfs:subClassOf :Venue ,  
        [ rdf:type owl:Restriction ;  
          owl:onProperty :sellsAlcohol ;  
          owl:minQualifiedCardinality "0"^^xsd:nonNegativeInteger ;  
          owl:onClass :Restaurant  
        ] .
```

https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#RomaTomatoes

```
:RomaTomatoes rdf:type owl:Class ;  
    rdfs:subClassOf :PizzaTopping .
```

https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Spinach

```
:Spinach rdf:type owl:Class ;  
    rdfs:subClassOf :PizzaTopping .
```

https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Venue

```
:Venue rdf:type owl:Class .
```

Generated by the OWL API (version 4.5.26.2023-07-17T20:34:13Z) <https://github.com/owlcs/owlapi>

```
<?xml version="1.0"?>
<rdf:RDF xmlns="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#"
  xml:base="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski"
  xmlns:dc="http://purl.org/dc/elements/1.1/"
  xmlns:ps="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:xml="http://www.w3.org/XML/1998/namespace"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#">
  <owl:Ontology rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski">
    <dc:creator>Pawel Staszynski, Ali Momenzadeh Kholenjani</dc:creator>
  </owl:Ontology>
```

```
<!--
////////////////////////////////////
//
// Annotation properties
//
////////////////////////////////////
-->
```

```
<!-- http://purl.org/dc/elements/1.1/creator -->
```

```
<owl:AnnotationProperty rdf:about="http://purl.org/dc/elements/1.1/creator"/>
```

```
<!--
```

```
////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
```

```
//
```

```
// Object Properties
```

```
//
```

```
////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
```

```
-->
```

```
<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#hasPizza -->
```

```
<owl:ObjectProperty rdf:about="https://www.city.ac.uk/inm713-  
in3067/2024/pawel_staszynski#hasPizza">
```

```
  <rdfs:subPropertyOf rdf:resource="http://www.w3.org/2002/07/owl#topObjectProperty"/>
```

```
</owl:ObjectProperty>
```

```
<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#hasTopping -->
```

```
<owl:ObjectProperty rdf:about="https://www.city.ac.uk/inm713-  
in3067/2024/pawel_staszynski#hasTopping">
```

```
  <owl:inverseOf rdf:resource="https://www.city.ac.uk/inm713-  
in3067/2024/pawel_staszynski#isToppingOf"/>
```

```
<rdfs:domain rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Pizza"/>
```

```
<rdfs:range rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzaTopping"/>
```

```
</owl:ObjectProperty>
```

```
<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#isToppingOf -->
```

```
<owl:ObjectProperty rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#isToppingOf">
```

```
<rdfs:domain rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Pizza"/>
```

```
<rdfs:range rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzaTopping"/>
```

```
</owl:ObjectProperty>
```

```
<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#sellsAlcohol -->
```

```
<owl:ObjectProperty rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#sellsAlcohol">
```

```
<rdfs:domain rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Venue"/>
```

```
<owl:propertyDisjointWith rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#doesn'tsellAlcohol"/>
```

```
</owl:ObjectProperty>
```

```
<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#doesn'tsellAlcohol -->
```

```
<owl:ObjectProperty rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#doesn'tsellAlcohol">
```

```
<rdfs:domain rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Venue"/>
```

```
</owl:ObjectProperty>
```

```
<!--
```

```
////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
```

```
//
```

```
// Data properties
```

```
//
```

```
////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
```

```
-->
```

```
<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#hasPostcode -->
```

```
<owl:DatatypeProperty rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#hasPostcode">
```

```
<rdfs:subPropertyOf rdf:resource="http://www.w3.org/2002/07/owl#topDataProperty"/>
```

```
<rdfs:domain rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Location"/>
```

```
<rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>
```

```
</owl:DatatypeProperty>
```

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#hasValue -->

<owl:DatatypeProperty rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#hasValue">

<rdfs:domain rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Price"/>

<rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#decimal"/>

</owl:DatatypeProperty>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#isCurrency -->

<owl:DatatypeProperty rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#isCurrency">

<rdfs:subPropertyOf rdf:resource="http://www.w3.org/2002/07/owl#topDataProperty"/>

<rdfs:domain rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Price"/>

<rdfs:range rdf:resource="http://www.w3.org/2001/XMLSchema#string"/>

</owl:DatatypeProperty>

<!--

//

//

// Classes

//

////////////////////////////////////

-->

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#AmericanRestaurant -->

```
<owl:Class rdf:about="https://www.city.ac.uk/inm713-  
in3067/2024/pawel_staszynski#AmericanRestaurant">
```

```
<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-  
in3067/2024/pawel_staszynski#Venue"/>
```

<rdfs:subClassOf>

```
<owl:Restriction>
```

```
<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-  
in3067/2024/pawel_staszynski#sellsAlcohol"/>
```

```
<owl:minQualifiedCardinality
rdf:datatype="http://www.w3.org/2001/XMLSchema#nonNegativeInteger">0</owl:minQualifiedCardinality>
```

```
<owl:onClass rdf:resource="https://www.city.ac.uk/inm713-  
in3067/2024/pawel_staszynski#AmericanRestaurant"/>
```

</owl:Restriction>

</rdfs:subClassOf>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Bacon -->

```
<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Bacon">
```

```
<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzaTopping"/>
```

```
<rdfs:comment xml:lang="pl">Boczek</rdfs:comment>
```

```
</owl:Class>
```

```
<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Bar -->
```

```
<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Bar">
```

```
<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Venue"/>
```

```
<rdfs:subClassOf>
```

```
<owl:Restriction>
```

```
<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#sellsAlcohol"/>
```

```
<owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Bar"/>
```

```
</owl:Restriction>
```

```
</rdfs:subClassOf>
```

```
<rdfs:comment>Bar has to sell some alcohol. Kids are not allowed.</rdfs:comment>
```

```
</owl:Class>
```

```
<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#CaliforniaPizza -->
```

```
<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#CaliforniaPizza">
```

```
<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#NamedPizza"/>
```

```
<rdfs:subClassOf>

  <owl:Restriction>

    <owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#hasTopping"/>

    <owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#CheddarCheese"/>

  </owl:Restriction>

</rdfs:subClassOf>

<rdfs:subClassOf>

  <owl:Restriction>

    <owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#hasTopping"/>

    <owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#Cheese"/>

  </owl:Restriction>

</rdfs:subClassOf>

<rdfs:subClassOf>

  <owl:Restriction>

    <owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#hasTopping"/>

    <owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#Mushroom"/>

  </owl:Restriction>

</rdfs:subClassOf>

<rdfs:subClassOf>

  <owl:Restriction>

    <owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#hasTopping"/>

    <owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#RomaTomatoes"/>

  </owl:Restriction>

</rdfs:subClassOf>
```

```
<rdfs:subClassOf>

  <owl:Restriction>

    <owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#hasTopping"/>

    <owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#Spinach"/>

  </owl:Restriction>

</rdfs:subClassOf>

<rdfs:subClassOf>

  <owl:Restriction>

    <owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#hasTopping"/>

    <owl:minQualifiedCardinality
rdf:datatype="http://www.w3.org/2001/XMLSchema#nonNegativeInteger">0</owl:minQualifiedCardina
lity>

    <owl:onClass rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#ChickenBreast"/>

  </owl:Restriction>

</rdfs:subClassOf>

  <owl:disjointWith rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#HawaiianPizza"/>

  <owl:disjointWith rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#PizzaDaAli"/>

  <rdfs:comment>This is expensive pizza to make</rdfs:comment>

</owl:Class>
```

```
<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#CheddarCheese -->
```

```
<owl:Class rdf:about="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#CheddarCheese">
```

```
<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzaTopping"/>
```

```
<owl:disjointWith rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Mozzarella"/>
```

```
</owl:Class>
```

```
<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Cheese -->
```

```
<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Cheese">
```

```
<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzaTopping"/>
```

```
</owl:Class>
```

```
<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#ChickenBreast -->
```

```
<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#ChickenBreast">
```

```
<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzaTopping"/>
```

```
</owl:Class>
```

```
<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Food -->
```

```
<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Food"/>
```

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#FrenchRestaurant -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#FrenchRestaurant">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Venue"/>

<rdfs:subClassOf>

<owl:Restriction>

<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#sellsAlcohol"/>

<owl:minQualifiedCardinality
rdf:datatype="http://www.w3.org/2001/XMLSchema#nonNegativeInteger">0</owl:minQualifiedCardinality>

<owl:onClass rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#FrenchRestaurant"/>

</owl:Restriction>

</rdfs:subClassOf>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Ham -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Ham">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzaTopping"/>

<rdfs:comment xml:lang="pl">Szynka</rdfs:comment>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#HawaiianPizza -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#HawaiianPizza">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#NamedPizza"/>

<rdfs:subClassOf>

<owl:Restriction>

<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#hasTopping"/>

<owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Ham"/>

</owl:Restriction>

</rdfs:subClassOf>

<rdfs:subClassOf>

<owl:Restriction>

<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#hasTopping"/>

<owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Pineapple"/>

</owl:Restriction>

</rdfs:subClassOf>

<rdfs:subClassOf>

<owl:Restriction>

<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#hasTopping"/>

<owl:minQualifiedCardinality
rdf:datatype="http://www.w3.org/2001/XMLSchema#nonNegativeInteger">0</owl:minQualifiedCardinality>

```
        <owl:onClass rdf:resource="https://www.city.ac.uk/inm713-  
in3067/2024/pawel_staszynski#Bacon"/>
```

```
    </owl:Restriction>
```

```
</rdfs:subClassOf>
```

```
    <owl:disjointWith rdf:resource="https://www.city.ac.uk/inm713-  
in3067/2024/pawel_staszynski#PizzaDaAli"/>
```

```
</owl:Class>
```

```
<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#ItalianRestaurant -->
```

```
    <owl:Class rdf:about="https://www.city.ac.uk/inm713-  
in3067/2024/pawel_staszynski#ItalianRestaurant">
```

```
        <rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-  
in3067/2024/pawel_staszynski#Venue"/>
```

```
    <rdfs:subClassOf>
```

```
        <owl:Restriction>
```

```
            <owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-  
in3067/2024/pawel_staszynski#sellsAlcohol"/>
```

```
            <owl:minQualifiedCardinality  
rdf:datatype="http://www.w3.org/2001/XMLSchema#nonNegativeInteger">0</owl:minQualifiedCardina  
lity>
```

```
        <owl:onClass rdf:resource="https://www.city.ac.uk/inm713-  
in3067/2024/pawel_staszynski#ItalianRestaurant"/>
```

```
    </owl:Restriction>
```

```
</rdfs:subClassOf>
```

```
</owl:Class>
```

```
<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Location -->
```



```
<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Location"/>
```

```
<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Mozzarella -->
```

```
<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Mozzarella">  
  <rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzaTopping"/>  
</owl:Class>
```

```
<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Mushroom -->
```

```
<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Mushroom">  
  <rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzaTopping"/>  
</owl:Class>
```

```
<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#NamedPizza -->
```

```
<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#NamedPizza">  
  <rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Pizza"/>  
</owl:Class>
```

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Pineapple -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Pineapple">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzaTopping"/>

<owl:disjointWith rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Spinach"/>

<rdfs:comment>Canned or fresh.</rdfs:comment>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Pizza -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Pizza">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Food"/>

<owl:disjointWith rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzaTopping"/>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzaDaAli -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzaDaAli">

<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#NamedPizza"/>

```
<rdfs:subClassOf>

  <owl:Restriction>

    <owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#hasTopping"/>

    <owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#Bacon"/>

  </owl:Restriction>

</rdfs:subClassOf>

<rdfs:subClassOf>

  <owl:Restriction>

    <owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#hasTopping"/>

    <owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#Cheese"/>

  </owl:Restriction>

</rdfs:subClassOf>

<rdfs:subClassOf>

  <owl:Restriction>

    <owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#hasTopping"/>

    <owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#Mushroom"/>

  </owl:Restriction>

</rdfs:subClassOf>

</owl:Class>

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzaPlace -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzaPlace">
```

```
<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#Venue"/>

<rdfs:subClassOf>

  <owl:Restriction>

    <owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#doesn'tsellAlcohol"/>

    <owl:allValuesFrom rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#PizzaPlace"/>

  </owl:Restriction>

</rdfs:subClassOf>

</owl:Class>
```

```
<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzaTopping -->
```

```
<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzaTopping">

  <rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#Food"/>

</owl:Class>
```

```
<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzeriaDaAli -->
```

```
<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzeriaDaAli">

  <rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#Venue"/>

  <rdfs:subClassOf>

    <owl:Restriction>
```

```
<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#hasPizza"/>
```

```
<owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzaDaAli"/>
```

```
</owl:Restriction>
```

```
</rdfs:subClassOf>
```

```
<rdfs:subClassOf>
```

```
<owl:Restriction>
```

```
<owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#sellsAlcohol"/>
```

```
<owl:someValuesFrom rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#PizzeriaDaAli"/>
```

```
</owl:Restriction>
```

```
</rdfs:subClassOf>
```

```
</owl:Class>
```

```
<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Price -->
```

```
<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Price"/>
```

```
<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Restaurant -->
```

```
<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Restaurant">
```

```
<rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Venue"/>
```

```
<rdfs:subClassOf>
```

```
<owl:Restriction>
  <owl:onProperty rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#sellsAlcohol"/>
  <owl:minQualifiedCardinality
rdf:datatype="http://www.w3.org/2001/XMLSchema#nonNegativeInteger">0</owl:minQualifiedCardina
lity>
  <owl:onClass rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#Restaurant"/>
</owl:Restriction>
</rdfs:subClassOf>
</owl:Class>
```

```
<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#RomaTomatoes -->
```

```
<owl:Class rdf:about="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#RomaTomatoes">
  <rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#PizzaTopping"/>
</owl:Class>
```

```
<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Spinach -->
```

```
<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Spinach">
  <rdfs:subClassOf rdf:resource="https://www.city.ac.uk/inm713-
in3067/2024/pawel_staszynski#PizzaTopping"/>
</owl:Class>
```

<!-- https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Venue -->

<owl:Class rdf:about="https://www.city.ac.uk/inm713-in3067/2024/pawel_staszynski#Venue"/>
</rdf:RDF>

<!-- Generated by the OWL API (version 4.5.26.2023-07-17T20:34:13Z) <https://github.com/owlcs/owlapi> -->