

## RDF-TURTLE(1)

@prefix : <http://example.com/ex#> .

@prefix rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#> .

@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .

@prefix xml: <http://www.w3.org/XML/1998/namespace> .

@prefix xsd: <http://www.w3.org/2001/XMLSchema#> .

@prefix owl: <http://www.w3.org/2002/07/owl#> .

:Course a rdfs:class.

:Professor a rdfs:class.

:Associate\_Professor a rdfs:class.

:Assistant\_Professor a rdfs:class.

:Academic\_Staff\_Member rdf:type rdfs:Class ;

rdfs:subClassOf :Professor, :Associate\_Professor, :Assistant\_Professor .

:Staff\_Member rdf:type rdfs:Class ;

rdfs:subClassOf :Academic\_Staff\_Member.

```

:isTaughtBy    a    owl:ObjectProperty;
rdfs:domain    :Course;
rdfs:range     :Academic_Staff_Member .

```

```

:involves      a      owl:ObjectProperty;
rdfs:subPropertyOf    :isTaughtBy.

```

```

:id a owl:DatatypeProperty;
rdfs:domain    :Staff_Member;
rdfs:range     rdfs:Literal.

```

```

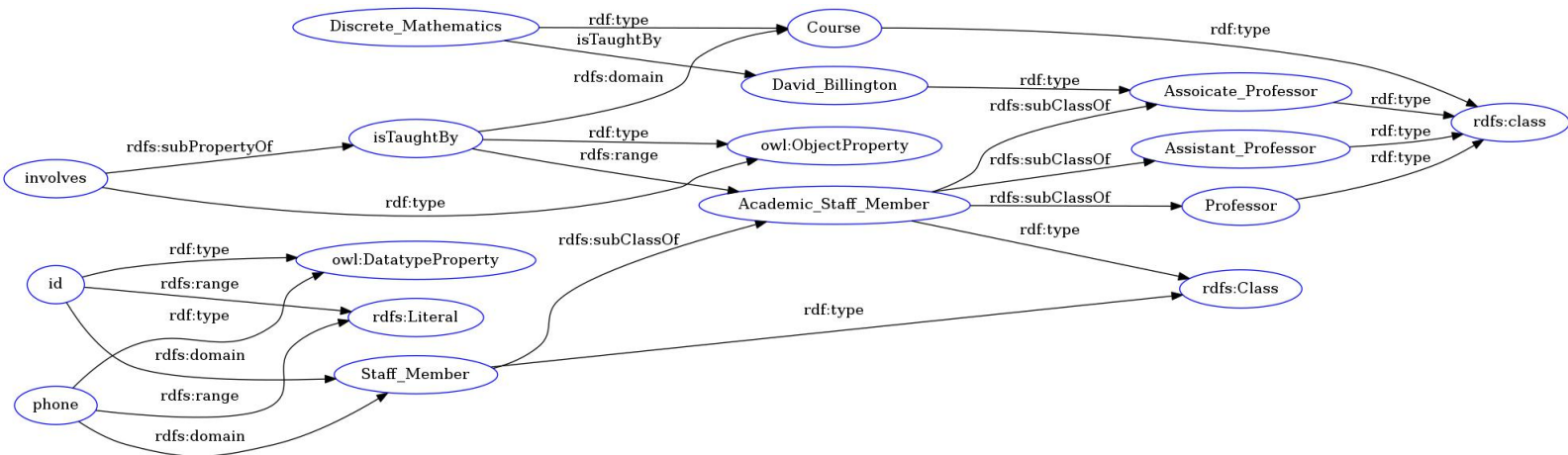
:phone a owl:DatatypeProperty;
rdfs:domain    :Staff_Member;
rdfs:range     rdfs:Literal.

```

```

:David_Billington    a      :Assoicate_Professor.
:Discrete_Mathematics    a      :Course;
                        :isTaughtBy    :David_Billington .

```



Namespaces:  
http://example.com/ex#  
rdf: http://www.w3.org/1999/02/22-rdf-syntax-ns#  
rdfs: http://www.w3.org/2000/01/rdf-schema#  
xml: http://www.w3.org/XML/1998/namespace  
xsd: http://www.w3.org/2001/XMLSchema#  
owl: http://www.w3.org/2002/07/owl#

## RDF-TURTLE(2)

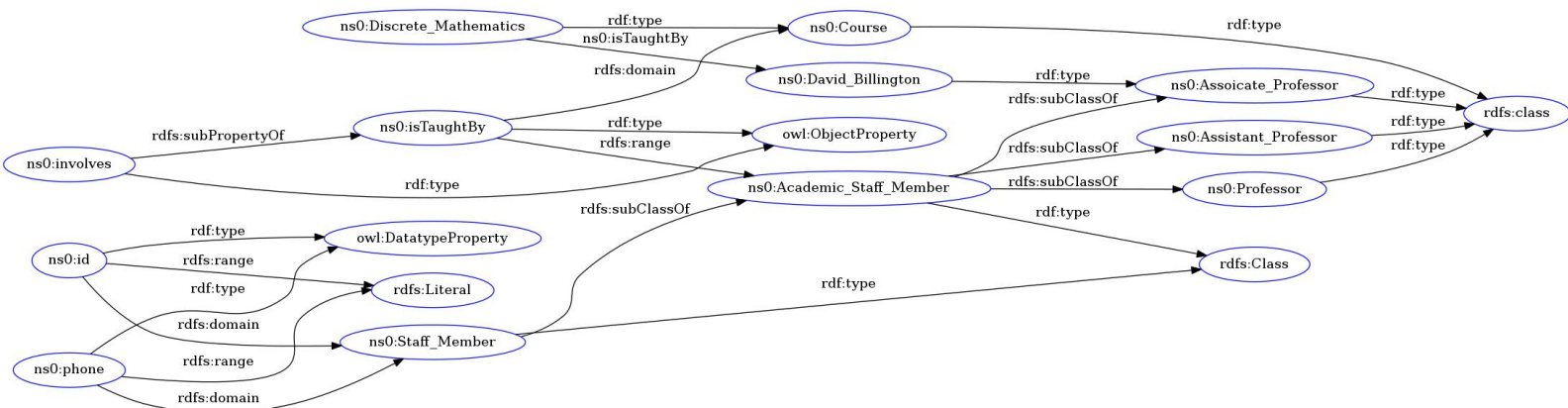
```

@prefix rdfs: <http://www.w3.org/2000/01/rdf-schema#> .
@prefix owl: <http://www.w3.org/2002/07/owl#> .
@prefix ns0: <http://example.com/ex#> .

<http://example.com/ex#Course> a rdfs:class .
<http://example.com/ex#Professor> a rdfs:class .
<http://example.com/ex#Associate_Professor> a rdfs:class .
<http://example.com/ex#Assistant_Professor> a rdfs:class .
<http://example.com/ex#Academic_Staff_Member> a rdfs:Class ;
  rdfs:subClassOf <http://example.com/ex#Professor>,
    <http://example.com/ex#Associate_Professor>,
    <http://example.com/ex#Assistant_Professor> .
<http://example.com/ex#Staff_Member> a rdfs:Class ;
  rdfs:subClassOf <http://example.com/ex#Academic_Staff_Member> .
<http://example.com/ex#isTaughtBy> a owl:ObjectProperty ;
  rdfs:domain <http://example.com/ex#Course> ;
  rdfs:range <http://example.com/ex#Academic_Staff_Member> .
<http://example.com/ex#involves> a owl:ObjectProperty ;
  rdfs:subPropertyOf <http://example.com/ex#isTaughtBy> .
<http://example.com/ex#id> a owl:DatatypeProperty ;
  rdfs:domain <http://example.com/ex#Staff_Member> ;
  rdfs:range rdfs:Literal .
<http://example.com/ex#phone> a owl:DatatypeProperty ;
  rdfs:domain <http://example.com/ex#Staff_Member> ;
  rdfs:range rdfs:Literal .
<http://example.com/ex#David_Billington> a
<http://example.com/ex#Associate_Professor> .

<http://example.com/ex#Discrete_Mathematics> a
<http://example.com/ex#Course> ;
  ns0:isTaughtBy ns0:David_Billington .

```



Namespaces:  
 rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>  
 rdfs: <http://www.w3.org/2000/01/rdf-schema#>  
 owl: <http://www.w3.org/2002/07/owl#>  
 ns0: <http://example.com/ex#>

## RDF-XML(1)

```
<?xml version="1.0" encoding="utf-8" ?><rdf:RDF
xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:ns0="http://example.com/ex#">

  <rdfs:class rdf:about="http://example.com/ex#Course">
  </rdfs:class>

  <rdfs:class rdf:about="http://example.com/ex#Professor">
  </rdfs:class>

  <rdfs:class rdf:about="http://example.com/ex#Associate_Professor">
  </rdfs:class>

  <rdfs:class rdf:about="http://example.com/ex#Assistant_Professor">
  </rdfs:class>

  <rdfs:Class rdf:about="http://example.com/ex#Academic_Staff_Member">
    <rdfs:subClassOf rdf:resource="http://example.com/ex#Professor"/>
    <rdfs:subClassOf
rdf:resource="http://example.com/ex#Associate_Professor"/>
    <rdfs:subClassOf
rdf:resource="http://example.com/ex#Assistant_Professor"/>
  </rdfs:Class>

  <rdfs:Class rdf:about="http://example.com/ex#Staff_Member">
    <rdfs:subClassOf
rdf:resource="http://example.com/ex#Academic_Staff_Member"/>
  </rdfs:Class>

  <owl:ObjectProperty rdf:about="http://example.com/ex#isTaughtBy">
    <rdfs:domain rdf:resource="http://example.com/ex#Course"/>
    <rdfs:range
rdf:resource="http://example.com/ex#Academic_Staff_Member"/>
  </owl:ObjectProperty>

  <owl:ObjectProperty rdf:about="http://example.com/ex#involves">
    <rdfs:subPropertyOf
rdf:resource="http://example.com/ex#isTaughtBy"/>
  </owl:ObjectProperty>

  <owl:DatatypeProperty rdf:about="http://example.com/ex#id">
    <rdfs:domain rdf:resource="http://example.com/ex#Staff_Member"/>
    <rdfs:range rdf:resource="http://www.w3.org/2000/01/rdf-
schema#Literal"/>
  </owl:DatatypeProperty>

  <owl:DatatypeProperty rdf:about="http://example.com/ex#phone">
    <rdfs:domain rdf:resource="http://example.com/ex#Staff_Member"/>
    <rdfs:range rdf:resource="http://www.w3.org/2000/01/rdf-
schema#Literal"/>
```

```

</owl:DatatypeProperty>

<rdf:Description rdf:about="http://example.com/ex#David_Billington">
  <rdf:type
rdf:resource="http://example.com/ex#Associate_Professor"/>
</rdf:Description>

<rdf:Description
rdf:about="http://example.com/ex#Discrete_Mathematics">
  <rdf:type rdf:resource="http://example.com/ex#Course"/>
  <ns0:isTaughtBy
rdf:resource="http://example.com/ex#David_Billington"/>
</rdf:Description>
</rdf:RDF>

```

## RDF-XML(2)

```

<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:owl="http://www.w3.org/2002/07/owl#"
  xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#"
  xmlns="http://example.com/ex#"
  xmlns:xsd="http://www.w3.org/2001/XMLSchema#" >
  <rdf:Description rdf:about="http://example.com/ex#Course">
    <rdf:type rdf:resource="http://www.w3.org/2000/01/rdf-schema#class"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://example.com/ex#Professor">
    <rdf:type rdf:resource="http://www.w3.org/2000/01/rdf-schema#class"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://example.com/ex#phone">
    <rdfs:range rdf:resource="http://www.w3.org/2000/01/rdf-schema#Literal"/>
    <rdfs:domain rdf:resource="http://example.com/ex#Staff_Member"/>
    <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#DatatypeProperty"/>
  </rdf:Description>
  <rdf:Description rdf:about="http://example.com/ex#Academic_Staff_Member">
    <rdfs:subClassOf rdf:resource="http://example.com/ex#Assistant_Professor"/>

```

```

<rdfs:subClassOf rdf:resource="http://example.com/ex#Assoicate_Professor"/>
<rdfs:subClassOf rdf:resource="http://example.com/ex#Professor"/>
<rdf:type rdf:resource="http://www.w3.org/2000/01/rdf-schema#Class"/>
</rdf:Description>
<rdf:Description rdf:about="http://example.com/ex#Assistant_Professor">
  <rdf:type rdf:resource="http://www.w3.org/2000/01/rdf-schema#class"/>
</rdf:Description>
<rdf:Description rdf:about="http://example.com/ex#id">
  <rdfs:range rdf:resource="http://www.w3.org/2000/01/rdf-schema#Literal"/>
  <rdfs:domain rdf:resource="http://example.com/ex#Staff_Member"/>
  <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#DatatypeProperty"/>
</rdf:Description>
<rdf:Description rdf:about="http://example.com/ex#Staff_Member">
  <rdfs:subClassOf
rdf:resource="http://example.com/ex#Academic_Staff_Member"/>
  <rdf:type rdf:resource="http://www.w3.org/2000/01/rdf-schema#Class"/>
</rdf:Description>
<rdf:Description rdf:about="http://example.com/ex#Assoicate_Professor">
  <rdf:type rdf:resource="http://www.w3.org/2000/01/rdf-schema#class"/>
</rdf:Description>
<rdf:Description rdf:about="http://example.com/ex#involves">
  <rdfs:subPropertyOf rdf:resource="http://example.com/ex#isTaughtBy"/>
  <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#ObjectProperty"/>
</rdf:Description>
<rdf:Description rdf:about="http://example.com/ex#isTaughtBy">
  <rdfs:range rdf:resource="http://example.com/ex#Academic_Staff_Member"/>
  <rdfs:domain rdf:resource="http://example.com/ex#Course"/>
  <rdf:type rdf:resource="http://www.w3.org/2002/07/owl#ObjectProperty"/>
</rdf:Description>
<rdf:Description rdf:about="http://example.com/ex#David_Billington">
  <rdf:type rdf:resource="http://example.com/ex#Assoicate_Professor"/>
</rdf:Description>

```

```

<rdf:Description rdf:about="http://example.com/ex#Discrete_Mathematics">
  <isTaughtBy rdf:resource="http://example.com/ex#David_Billington"/>
  <rdf:type rdf:resource="http://example.com/ex#Course"/>
</rdf:Description>
</rdf:RDF>

```

## N-TRIPLES

```

<http://example.com/ex#Course> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type> <http://www.w3.org/2000/01/rdf-schema#class> .<http://example.com/ex#Professor>
<http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/2000/01/rdf-schema#class> .<http://example.com/ex#Associate_Professor>
<http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/2000/01/rdf-schema#class> .<http://example.com/ex#Assistant_Professor>
<http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/2000/01/rdf-schema#class> .<http://example.com/ex#Academic_Staff_Member>
<http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/2000/01/rdf-schema#Class> .<http://example.com/ex#Academic_Staff_Member>
<http://www.w3.org/2000/01/rdf-schema#subClassOf>
<http://example.com/ex#Professor> .<http://example.com/ex#Academic_Staff_Member> <http://www.w3.org/2000/01/rdf-schema#subClassOf>
<http://example.com/ex#Associate_Professor> .<http://example.com/ex#Academic_Staff_Member> <http://www.w3.org/2000/01/rdf-schema#subClassOf>
<http://example.com/ex#Assistant_Professor> .<http://example.com/ex#Academic_Staff_Member> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/2000/01/rdf-schema#Class> .<http://example.com/ex#Staff_Member>
<http://www.w3.org/2000/01/rdf-schema#subClassOf>
<http://example.com/ex#Academic_Staff_Member> .<http://example.com/ex#isTaughtBy> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/2002/07/owl#ObjectProperty> .<http://example.com/ex#isTaughtBy> <http://www.w3.org/2000/01/rdf-schema#domain>
<http://example.com/ex#Course> .<http://example.com/ex#isTaughtBy>
<http://www.w3.org/2000/01/rdf-schema#range>
<http://example.com/ex#Academic_Staff_Member> .<http://example.com/ex#involves> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/2002/07/owl#ObjectProperty> .<http://example.com/ex#involves> <http://www.w3.org/2000/01/rdf-schema#subPropertyOf>
<http://example.com/ex#isTaughtBy> .<http://example.com/ex#id>
<http://www.w3.org/1999/02/22-rdf-syntax-ns#type>
<http://www.w3.org/2002/07/owl#DatatypeProperty> .<http://example.com/ex#id> <http://www.w3.org/2000/01/rdf-schema#domain>

```



```
<http://example.com/ex#Staff_Member> .<http://example.com/ex#id>  
<http://www.w3.org/2000/01/rdf-schema#range>  
<http://www.w3.org/2000/01/rdf-  
schema#Literal> .<http://example.com/ex#phone>  
<http://www.w3.org/1999/02/22-rdf-syntax-ns#type>  
<http://www.w3.org/2002/07/owl#DatatypeProperty> .<http://example.com/e  
x#phone> <http://www.w3.org/2000/01/rdf-schema#domain>  
<http://example.com/ex#Staff_Member> .<http://example.com/ex#phone>  
<http://www.w3.org/2000/01/rdf-schema#range>  
<http://www.w3.org/2000/01/rdf-  
schema#Literal> .<http://example.com/ex#David_Billington>  
<http://www.w3.org/1999/02/22-rdf-syntax-ns#type>  
<http://example.com/ex#Associate_Professor> .<http://example.com/ex#Dis  
crete_Mathematics> <http://www.w3.org/1999/02/22-rdf-syntax-ns#type>  
<http://example.com/ex#Course> .<http://example.com/ex#Discrete_Mathema  
tics> <http://example.com/ex#isTaughtBy>  
<http://example.com/ex#David_Billington> .
```