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# QUESTIONS FROM THE COURSES

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## Day 01: questions from the course.

### Q1.1 Practice XML replace missing parts

#### Answer

```
<archi_book>
  <short_title>Architecture Now</short_title>
  <main_author>Jodidio, Philip</main_authot>
  <ID isbn10="3822840912" />
</archi_book>
```

### Q1.2 Provide 10 first lines

Get 10 first lines of the five results for:

<http://www.wikidata.org/entity/Q23014205>  
<http://www.wikidata.org/entity/Q23014205.json>  
<http://www.wikidata.org/entity/Q23014205.rdf>  
<http://www.wikidata.org/entity/Q23014205.ttl>  
<http://www.wikidata.org/entity/Q23014205.nt>

#### Answer

```
1 <!DOCTYPE html>
  <html class="client-nojs" lang="en" dir="ltr">
  <head>
    <meta charset="UTF-8"/>
    <title>Fabien Gandon - Wikidata</title>
    <script>document.documentElement.className="client-
js";RLCONF={"wgCanonicalNamespace":"","wgCanonicalSpecialPageName":!1,"wgNamespaceNum
ber":0,"wgPageName":"Q23014205","wgTitle":"Q23014205","wgCurRevisionId":872123137,"wgRev
isionId":872123137,"wgArticleId":25028548,"wgIsArticle":!0,"wgIsRedirect":!1,"wgAction":"view","
wgUserName":null,"wgUserGroups":["*"],"wgCategories":[],"wgBreakFrames":!1,"wgPageContentLa
nguage":"en","wgPageContentModel":"wikibase-
item","wgSeparatorTransformTable":["",""],"wgDigitTransformTable":["",""],"wgDefaultDateFormat
":"dmy","wgMonthNames":["","January","February","March","April","May","June","July","August","S
eptember","October","November","December"],"wgMonthNamesShort":["","Jan","Feb","Mar","Apr","
May","Jun","Jul","Aug","Sep","Oct","Nov","Dec"],"wgRelevantPageName":"Q23014205","wgReleva
ntArticleId":25028548,"wgRequestId":"XYiIOwpAICoAAJSZR5AAAACK","wgCSPNonce":!1,"wgIs
ProbablyEditable":!0,"wgRelevantPageIsProbablyEditable":!0,"wgRestrictionEdit":[
],"wgMediaViewerOnClick":!0,"wgMediaViewerEnabledByDefault":!0,"wgVisualEditor":{"pageLang
uageCode":"en","pageLanguageDir":"ltr","pageVariantFallbacks":"en"},"wgMFDisplayWikibaseDescr
ptions":{"search":!0,"nearby":!0,"watchlist":!0,"tagline":!1},"wgWMESchemaEditAttemptStepOversa
mple":!1,"wgPoweredByHHVM":!1,"wgULSCurrentAutonym":"English","wgNoticeProject":"wikidat
a","wbIsEditView":!0,"wbEntityId":"Q23014205","wgEditSubmitButtonLabelPublish":!0,"wbUserSpe
cifiedLanguages":[],"wbCopyright":{"version":"wikibase-1","messageHtml":"By clicking \"publish\",
you agree to the \u003Ca href=\"https://foundation.wikimedia.org/wiki/Terms_of_Use\"
class=\"extiw\" title=\"wikimedia:Terms of Use\"\u003C/a\u003E, and you
irrevocably agree to release your contribution under the \u003Ca rel=\"nofollow\" class=\"external
text\" href=\"https://creativecommons.org/publicdomain/zero/1.0/\" \u003ECreative Commons CC0
License\u003C/a\u003E."},"wbBadgeItems":{"Q17437798":
"wb-badge-goodarticle","Q17437796":"wb-badge-featuredarticle","Q17559452":"wb-badge-
recommendedarticle","Q17506997":"wb-badge-featuredlist","Q17580674":"wb-badge-
```

	<p>featuredportal","Q20748091":"wb-badge-notproofread","Q20748094":"wb-badge-problematic","Q20748092":"wb-badge-proofread","Q20748093":"wb-badge-validated","Q28064618":"wb-badge-digitaldocument","Q51759403":"wb-badge-goodlist"},"wbMultiLingualStringLimit":250,"wgCentralAuthMobileDomain":!1};RLSTATE={"ext.globalCssJs.user.styles":"ready","site.styles":"ready","noscript":"ready","user.styles":"ready","ext.globalCssJs.user":"ready","user":"ready","user.options":"ready","user.tokens":"loading","wikibase.common":"ready","jquery.ui.core.styles":"ready","jquery.wikibase.statementview.RankSelector.styles":"ready","jquery.wikibase.toolbar.styles":"ready","jquery.wikibase.toolbarbutton.styles":"ready","mediawiki.legacy.shared":"ready","mediawiki.legacy.commonPrint":"ready","jquery.makeCollapsible.styles":"ready","ext.visualEditor.desktopArticleTarget.noscript":"ready","ext.uls.pt":"ready","ext.wikidata-org.badges":"ready","ext.wikimediaBadges":"ready","ext.3d.styles":"ready","mediawiki.skinning.interface":"ready","skins.vector.styles":"ready"};RLPAGEMODULES=["wikibase.ui.entityViewInit","site","mediawiki.page.startup","mediawiki.page.ready","jquery.makeCollapsible","mediawiki.searchSuggest","wikibase.ui.entitysearch","ext.gadget.Search","ext.gadget.AuthorityControl","ext.gadget.SiteIdToInterwiki","ext.gadget.ProtectionIndicators","ext.gadget.PopupsFix","ext.gadget.imagelinks","ext.gadget.NewSection","ext.gadget.formWizard","ext.centralauth.centralautologin","mmv.head","mmv.bootstrap.autostart","ext.visualEditor.desktopArticleTarget.init","ext.visualEditor.targetLoader","ext.citoid.wikibase.init","ext.eventLogging","ext.wikimediaEvents","ext.wikimediaEvents.wikibase","ext.navigationTiming","ext.uls.compactlinks","ext.uls.interface","propertySuggester.suggestions","wikibase.quality.constraints.suggestions","ext.centralNotice.geoIP","ext.centralNotice.startUp","skins.vector.js"];&lt;/script&gt;</p>
2	<pre>{   "entities":{     "Q23014205":{       "pageid":25028548,       "ns":0,       "title":"Q23014205",       "lastrevid":872123137,       "modified":"2019-03-02T12:03:45Z",       "type":"item",       "id":"Q23014205",       "labels":{         "fr":{           "language":"fr",           "value":"Fabien Gandon"         }       },     },   }, }</pre>
3	<pre>&lt;?xml version="1.0"?&gt; &lt;rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:xsd="http://www.w3.org/2001/XMLSchema#" xmlns:ontolex="http://www.w3.org/ns/lemon/ontolex#" xmlns:dct="http://purl.org/dc/terms/" xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#" xmlns:owl="http://www.w3.org/2002/07/owl#" xmlns:wikibase="http://wikiba.se/ontology#" xmlns:skos="http://www.w3.org/2004/02/skos/core#" xmlns:schema="http://schema.org/" xmlns:cc="http://creativecommons.org/ns#" xmlns:geo="http://www.opengis.net/ont/geosparql#" xmlns:prov="http://www.w3.org/ns/prov#" xmlns:v="http://www.wikidata.org/value/" xmlns:wd="http://www.wikidata.org/entity/" xmlns:data="https://www.wikidata.org/wiki/Special:EntityData/" xmlns:s="http://www.wikidata.org/entity/statement/" xmlns:ref="http://www.wikidata.org/reference/" xmlns:wdt="http://www.wikidata.org/prop/direct/" xmlns:wdrn="http://www.wikidata.org/prop/direct-normalized/" xmlns:p="http://www.wikidata.org/prop/" xmlns:ps="http://www.wikidata.org/prop/statement/" xmlns:psv="http://www.wikidata.org/prop/statement/value/" xmlns:psn="http://www.wikidata.org/prop/statement/value-normalized/" xmlns:pq="http://www.wikidata.org/prop/qualifier/" xmlns:pqv="http://www.wikidata.org/prop/qualifier/value/" xmlns:pqn="http://www.wikidata.org/prop/qualifier/value-normalized/"</pre>

	<pre> xmlns:pr="http://www.wikidata.org/prop/reference/" xmlns:prv="http://www.wikidata.org/prop/reference/value/" xmlns:prn="http://www.wikidata.org/prop/reference/value-normalized/" xmlns:weno="http://www.wikidata.org/prop/novalue/" &lt;rdf:Description rdf:about="https://www.wikidata.org/wiki/Special:EntityData/Q23014205"&gt;   &lt;rdf:type rdf:resource="http://schema.org/Dataset"/&gt;   &lt;schema:about rdf:resource="http://www.wikidata.org/entity/Q23014205"/&gt;   &lt;cc:license rdf:resource="http://creativecommons.org/publicdomain/zero/1.0"/&gt;   &lt;schema:softwareVersion&gt;1.0.0&lt;/schema:softwareVersion&gt;   &lt;schema:version rdf:datatype="http://www.w3.org/2001/XMLSchema#integer"&gt;872123137&lt;/schema:version&gt;   &lt;schema:dateModified rdf:datatype="http://www.w3.org/2001/XMLSchema#dateTime"&gt;2019-03- 02T12:03:45Z&lt;/schema:dateModified&gt;   &lt;wikibase:statements rdf:datatype="http://www.w3.org/2001/XMLSchema#integer"&gt;29&lt;/wikibase:statements&gt; </pre>
4	<pre> @prefix rdf: &lt;http://www.w3.org/1999/02/22-rdf-syntax-ns#&gt; . @prefix xsd: &lt;http://www.w3.org/2001/XMLSchema#&gt; . @prefix ontolox: &lt;http://www.w3.org/ns/lemon/ontolox#&gt; . @prefix dct: &lt;http://purl.org/dc/terms/&gt; . @prefix rdfs: &lt;http://www.w3.org/2000/01/rdf-schema#&gt; . @prefix owl: &lt;http://www.w3.org/2002/07/owl#&gt; . @prefix wikibase: &lt;http://wikiba.se/ontology#&gt; . @prefix skos: &lt;http://www.w3.org/2004/02/skos/core#&gt; . @prefix schema: &lt;http://schema.org/&gt; . @prefix cc: &lt;http://creativecommons.org/ns#&gt; . </pre>
5	<pre> &lt;https://www.wikidata.org/wiki/Special:EntityData/Q23014205&gt; &lt;http://www.w3.org/1999/02/22-rdf- syntax-ns#type&gt; &lt;http://schema.org/Dataset&gt; . &lt;https://www.wikidata.org/wiki/Special:EntityData/Q23014205&gt; &lt;http://schema.org/about&gt; &lt;http://www.wikidata.org/entity/Q23014205&gt; . &lt;https://www.wikidata.org/wiki/Special:EntityData/Q23014205&gt; &lt;http://creativecommons.org/ns#license&gt; &lt;http://creativecommons.org/publicdomain/zero/1.0/&gt; . &lt;https://www.wikidata.org/wiki/Special:EntityData/Q23014205&gt; &lt;http://schema.org/softwareVersion&gt; "1.0.0" . &lt;https://www.wikidata.org/wiki/Special:EntityData/Q23014205&gt; &lt;http://schema.org/version&gt; "872123137"^^&lt;http://www.w3.org/2001/XMLSchema#integer&gt; . &lt;https://www.wikidata.org/wiki/Special:EntityData/Q23014205&gt; &lt;http://schema.org/dateModified&gt; "2019-03-02T12:03:45Z"^^&lt;http://www.w3.org/2001/XMLSchema#dateTime&gt; . &lt;https://www.wikidata.org/wiki/Special:EntityData/Q23014205&gt; &lt;http://wikiba.se/ontology#statements&gt; "29"^^&lt;http://www.w3.org/2001/XMLSchema#integer&gt; . &lt;https://www.wikidata.org/wiki/Special:EntityData/Q23014205&gt; &lt;http://wikiba.se/ontology#identifiers&gt; "10"^^&lt;http://www.w3.org/2001/XMLSchema#integer&gt; . &lt;https://www.wikidata.org/wiki/Special:EntityData/Q23014205&gt; &lt;http://wikiba.se/ontology#sitelinks&gt; "0"^^&lt;http://www.w3.org/2001/XMLSchema#integer&gt; . &lt;http://www.wikidata.org/entity/Q23014205&gt; &lt;http://www.w3.org/1999/02/22-rdf-syntax-ns#type&gt; &lt;http://wikiba.se/ontology#Item&gt; . </pre>

### Q1.3 DBpedia

1. Find "London" on DBpedia.org; e.g. Google: "london site:dbpedia.org" make sure you are on the English chapter (dbpedia.org) as there are many others (fr.dbpedia.org, de.dbpedia.org)
2. Find dbp:populationDonym and give its value
3. Find rdf:type and click on value yago:WikicatCapitalsInEurope
4. Find "Vienna" and get its URI  
(careful: with content negotiation and redirection, the URL of the page you are currently viewing may be different from the URI of the resource it describes)
5. Access to Vienna and find its native name?

**Answer**

1.	<a href="http://dbpedia.org/page/London">http://dbpedia.org/page/London</a>
2.	Londoner
3.	owl:Thing dbo:Place dbo:Location wikidata:Q486972 dbo:PopulatedPlace dbo:Settlement geo:SpatialThing schema:Place umbel-rc:Location_Underspecified umbel-rc:PopulatedPlace umbel-rc:Village yago:WikicatStaplePorts yago:AdministrativeDistrict108491826 yago:Area108497294 yago:Capital108518505 yago:Center108523483 yago:City108524735 yago:District108552138 yago:GeographicPoint108578706 yago:GeographicalArea108574314 yago:Location100027167 yago:Municipality108626283 yago:Object100002684 yago:PhysicalEntity100001930 yago:Point108620061 yago:Port108633957 yago:Region108630985 yago:Seat108647945 yago:Site108651247 yago:Town108665504 yago:Tract108673395 yago:UrbanArea108675967 yago:YagoGeoEntity yago:YagoLegalActorGeo yago:YagoPermanentlyLocatedEntity yago:WikicatCapitalsInEurope yago:WikicatCitiesInEngland yago:WikicatCitiesWithMillionsOfInhabitants yago:WikicatArthurianLocations yago:WikicatBritishCapitals yago:WikicatPopulatedPlacesEstablishedInThe1stCentury yago:WikicatPortCities yago:WikicatPortCitiesAndTownsInEngland yago:WikicatPortsAndHarbours yago:WikicatPostTownsInPostcodeAreasCoveringLondon
4	<a href="http://dbpedia.org/resource/Vienna">http://dbpedia.org/resource/Vienna</a>
5	Wien en allemand , Wean en austro-bavarois

**Q1.4 WHO.IS?**

1. contact for inria.fr
2. contact for fabien.info
3. contact for lemonde.fr

**Answer**

- 1) Florian DUFOUR
- 2) empty
- 3) SOCIETE EDITRICE DU MONDE

## Q1.5 CURL

1. Ten first lines:  
`curl -o Paris.html -L -H "Accept: text/html" http://dbpedia.org/resource/Paris`  
`curl -o Paris-rdf.xml.txt -L -H "Accept: application/rdf+xml" http://dbpedia.org/resource/Paris`
2. Ten first lines for HTML and RDF `http://ns.inria.fr/fabien.gandon#me`
3. Ten first lines for HTML and RDF for 'Vienna' on Dbpedia
4. Ten first lines for the "URI of the name of Victor Hugo" in the Library of Congress:  
`http://id.loc.gov/authorities/names/n79091479`
5. Ten first lines for HTML and RDF  
`http://purl.uniprot.org/uniprot/P43121`
6. What is the topic and format of data obtained with  
`curl -o json.txt -L -H "Accept: application/json"`  
`https://www.wikidata.org/wiki/Special:EntityData/Q551861`
7. What is the topic and format of data obtained with  
`curl -o turtle.txt -L -H "Accept: text/turtle" http://dx.doi.org/10.1007/3-540-45741-0\_18`

## Answer

### 1 Paris.html

```
<?xml version="1.0" encoding="UTF-8" ?>
<!DOCTYPE html PUBLIC "-
//W3C//DTD XHTML+RDFa 1.0//EN" "http://www.w3.org/MarkUp/DTD/xhtml1-rdfa-1.dtd">
<html xmlns="http://www.w3.org/1999/xhtml"
      xmlns:dbpprop="http://dbpedia.org/property/"
      xmlns:foaf="http://xmlns.com/foaf/0.1/"
      version="XHTML+RDFa 1.0"
      xml:lang="en"
>
```

### Paris-rdf.xml.txt

```
<?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:dbo="http://dbpedia.org/ontology/"
  xmlns:dct="http://purl.org/dc/terms/"
  xmlns:foaf="http://xmlns.com/foaf/0.1/"
  xmlns:geo="http://www.w3.org/2003/01/geo/wgs84_pos#"
  xmlns:prov="http://www.w3.org/ns/prov#"
>
```

### 2 HTML:

```
<?xml version="1.0" encoding="utf-8" ?>
<!DOCTYPE html PUBLIC "-
//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
    <title>FOAF profile of Fabien GANDON</title>
  </head>
  <body>
    <h1>FOAF profile of Fabien GANDON</h1>
    <p>You may have been redirected here by your browser.</p>
```

### RDF:

```
<?xml version='1.0' encoding='utf-8' ?>
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
>
```

	<pre> xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#" xmlns:foaf="http://xmlns.com/foaf/0.1/" xml:base="http://ns.inria.fr/fabien.gandon"&gt;  &lt;foaf:PersonalProfileDocument rdf:about=""&gt;   &lt;foaf:makes rdf:resource="#me"/&gt;   &lt;foaf:primaryTopic rdf:resource="#me"/&gt; </pre>
3	<p>HTML:</p> <pre> &lt;?xml version="1.0" encoding="UTF-8" ?&gt; &lt;!DOCTYPE html PUBLIC "- //W3C//DTD XHTML+RDFa 1.0//EN" "http://www.w3.org/MarkUp/DTD/xhtml-rdfa-1.dtd"&gt; &lt;html xmlns="http://www.w3.org/1999/xhtml"   xmlns:dbpprop="http://dbpedia.org/property/"   xmlns:foaf="http://xmlns.com/foaf/0.1/"   version="XHTML+RDFa 1.0"   xml:lang="en" &gt; </pre> <p>RDF:</p> <pre> &lt;?xml version="1.0" encoding="utf-8" ?&gt; &lt;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:dbo="http://dbpedia.org/ontology/"   xmlns:dbp="http://dbpedia.org/property/"   xmlns:dct="http://purl.org/dc/terms/"   xmlns:foaf="http://xmlns.com/foaf/0.1/"   xmlns:skos="http://www.w3.org/2004/02/skos/core#" </pre>
4	<p>HTML:</p> <pre> &lt;!DOCTYPE html PUBLIC "-//W3C//DTD XHTML+RDFa 1.0//EN"   "http://www.w3.org/MarkUp/DTD/xhtml-rdfa-1.dtd"&gt; &lt;html version="XHTML+RDFa 1.0" xmlns="http://www.w3.org/1999/xhtml" xmlns:madsrdf="http://www.loc.gov/mads/rdf/v1#" xmlns:ri="http://id.loc.gov/ontologies/RecordInfo#" xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#" xmlns:rdfs="http://www.w3.org/2000/01/rdf-schema#" xmlns:skos="http://www.w3.org/2004/02/skos/core#" xmlns:skosxl="http://www.w3.org/2008/05/skos-xl#" xmlns:owl="http://www.w3.org/2002/07/owl#" xmlns:cs="http://www.w3.org/2003/06/sw-vocab-status/ns#" xmlns:dcterms="http://purl.org/dc/terms/"&gt;   &lt;head&gt;     &lt;title&gt;Hugo, Victor, 1802-1885 - LC Linked Data Service: Authorities and Vocabularies   Library of Congress&lt;/title&gt;     &lt;meta name="description" content="The Linked Data Service provides access to commonly found standards and vocabularies promulgated by the Library of Congress. This includes data values and the controlled vocabularies that house them. Datasets available include LCSH, BIBFRAME, LC Name Authorities, LC Classification, MARC codes, PREMIS vocabularies, ISO language codes, and more."/&gt;     &lt;link rel="schema.DC" href="http://purl.org/dc/elements/1.1/" /&gt;     &lt;link rel="dc:relation.isPartOf" href="//www.loc.gov/" title="Library of Congress" /&gt;     &lt;meta name="dc:title" content="LC Linked Data Service: Authorities and Vocabularies (Library of Congress)" /&gt;     &lt;meta name="dc:contributor" content="The Library of Congress" /&gt; </pre> <p>RDF:</p> <pre> &lt;rdf:RDF xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"   &lt;madsrdf:PersonalName rdf:about="http://id.loc.gov/authorities/names/n79091479" xmlns:madsrdf="http://www.loc.gov/mads/rdf/v1#"&gt;   &lt;rdf:type rdf:resource="http://www.loc.gov/mads/rdf/v1#Authority"/&gt; </pre>



	<pre> &lt;madsrdf:authoritativeLabel xml:lang="en"&gt;Hugo, Victor, 1802-1885&lt;/madsrdf:authoritativeLabel&gt; &lt;madsrdf:elementList rdf:parseType="Collection"&gt;   &lt;madsrdf:FullNameElement&gt;     &lt;madsrdf:elementValue xml:lang="en"&gt;Hugo, Victor,&lt;/madsrdf:elementValue&gt;   &lt;/madsrdf:FullNameElement&gt;   &lt;madsrdf:DateNameElement&gt;     &lt;madsrdf:elementValue xml:lang="en"&gt;1802-1885&lt;/madsrdf:elementValue&gt; </pre>
5	<p>HTML:</p> <pre> &lt;!DOCTYPE html SYSTEM "about:legacy-compat"&gt; &lt;html xmlns="http://www.w3.org/1999/xhtml" lang="en" xml:lang="en"&gt;&lt;head&gt;&lt;title&gt;MCAM - Cell surface glycoprotein MUC18 precursor - Homo sapiens (Human) - MCAM gene &amp; pr otein&lt;/title&gt;&lt;meta content="IE=edge" http-equiv="X-UA- Compatible"/&gt;&lt;meta content="text/html; charset=UTF-8" http-equiv="Content- Type"/&gt;&lt;meta content="width=device-width, initial- scale=1" name="viewport"/&gt;&lt;link href="/" rel="home"/&gt;&lt;link href="https://creativecommo ns.org/licenses/by/4.0/" rel="license"/&gt;&lt;link type="image/vnd.microsoft.icon" href="/f avicon.ico" rel="shortcut icon"/&gt;&lt;link href="/uniprot.min.css2019_08" type="text/css" rel="stylesheet"/&gt;&lt;script type="text/javascript"&gt;   var BASE = '/';   var ua = window.navigator.userAgent;   var directory = (~ua.indexOf('MSIE ')    ~ua.indexOf('Trident/')) === 0 ? "non-ie" : "ie"; &lt;/script&gt;&lt;script src="/scripts/frontier/d3/d3.v3.min.js" type="text/javascript "&gt;&lt;/script&gt;&lt;script src="/js- compr.js2019_08" type="text/javascript"&gt;&lt;/script&gt;&lt;script type="text/javascript"&gt;   uniprot.namespace = 'uniprot';   uniprot.releasedate = '2019_08'; &lt;/script&gt;&lt;script type="text/javascript"&gt; ; </pre> <p>RDF:</p> <pre> &lt;?xml version='1.0' encoding='UTF-8'?&gt; &lt;rdf:RDF xml:base="http://purl.uniprot.org/uniprot/" xmlns="http://purl.uniprot.org/core/" xmlns:dcterms="http://purl.org/dc/terms/" 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:skos="http://www.w3.org/2004/02/skos/core#" xmlns:bibo="http://purl.org/ontology/bibo/" xmlns:foaf="http://xmlns.com/foaf/0.1/" xmlns:void="http://rdfs.org/ns/void#" xmlns:sd="http://www.w3.org/ns/sparql-service-description#" xmlns:faldo="http://biohackathon.org/resource/faldo#"&gt; &lt;owl:Ontology rdf:about="http://purl.uniprot.org/uniprot/"&gt; &lt;owl:imports rdf:resource="http://purl.uniprot.org/core/"&gt; &lt;/owl:Ontology&gt; &lt;rdf:Description rdf:about="http://purl.uniprot.org/uniprot/P43121"&gt; &lt;rdf:type rdf:resource="http://purl.uniprot.org/core/Protein"/&gt; &lt;reviewed rdf:datatype="http://www.w3.org/2001/XMLSchema#boolean"&gt;true&lt;/reviewed&gt; &lt;created rdf:datatype="http://www.w3.org/2001/XMLSchema#date"&gt;1995-11-01&lt;/created&gt; &lt;modified rdf:datatype="http://www.w3.org/2001/XMLSchema#date"&gt;2019-09-18&lt;/modified&gt; </pre>
6	<p>Topic: Q551861: Xavier Dolan</p> <p>Format: JSON format</p>
7	<p>Topic: Distributed Artificial Intelligence for Distributed Corporate Knowledge Management</p> <p>Format: .nt format</p>

## Q1.6 Recall five best practices of linked open data



### Answer

1. On the web
2. Machine-readable data
3. Non-proprietary format
4. RDF standards
5. Linked RDF

## Q1.7

### Spotlight demo

Reproduce the demo:

1. Copy a text from Wikipedia (e.g. Muse Band page)
2. Find the DBpedia Spotlight service page
3. Paste the text and run the detection
4. Try with other texts and copy-paste one of the results you get.

### Answer

[Muse](#) are an [English rock](#) band from [Teignmouth](#), [Devon](#), formed in 1994. The band consists of [Matt Bellamy](#) ([lead vocals](#), [guitar](#), [keyboards](#)), [Chris Wolstenholme](#) ([bass guitar](#), [backing vocals](#)), and Dominic [Howard](#) ([drums](#)).

[Muse](#) have won numerous awards, including two [Grammy Awards](#), two [Brit Awards](#), five [MTV Europe Music Awards](#) and eight [NME Awards](#). In 2012 they received the [Ivor Novello Award](#) for International Achievement from the [British Academy](#) of Songwriters, Composers and Authors. As of June 2016, they have sold over 20 million albums worldwide.

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