

Things and Documents

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Web Documents

A **Web document** is defined as something that has a URI and can return **representations** (responses in a format such as HTML or JPEG or RDF) of the identified resource in response to HTTP requests

<http://ex.com/>

the homepage of Example Inc.

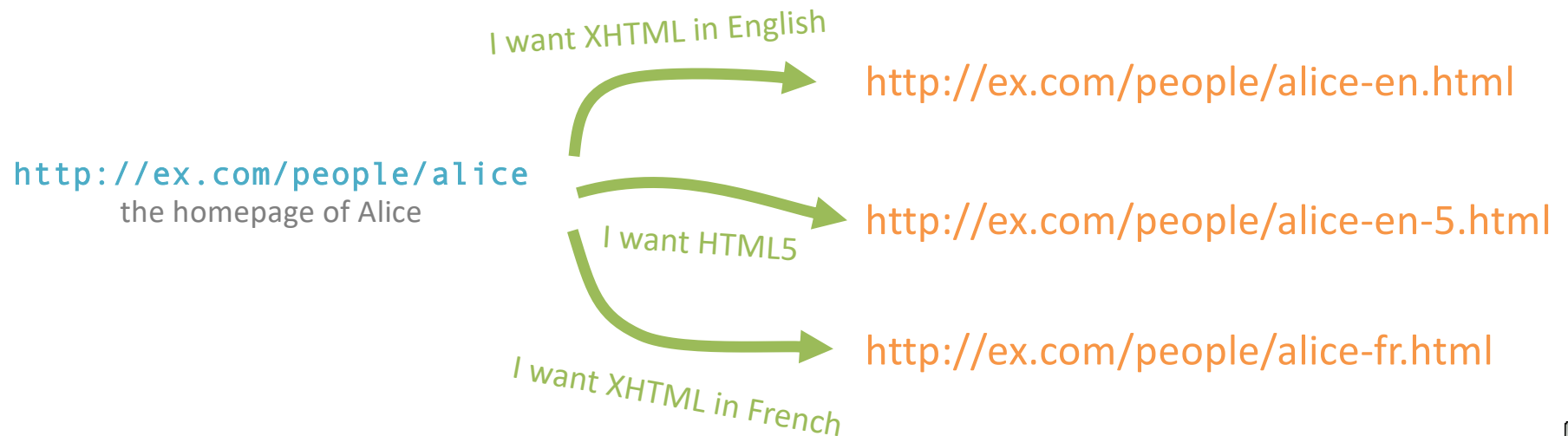
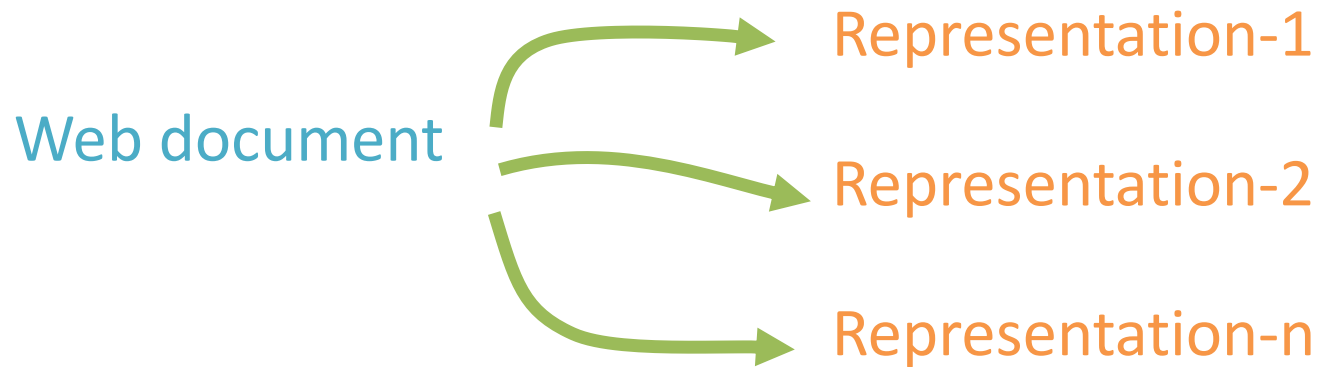
<http://ex.com/people/alice>

the homepage of Alice

<http://ex.com/people/bob>

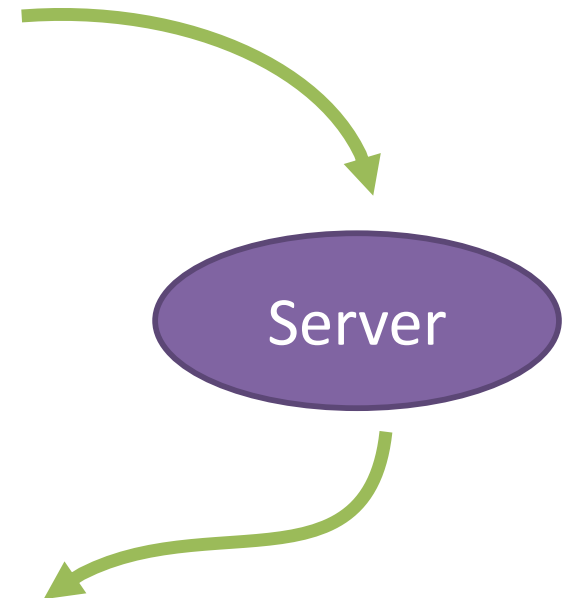
the homepage of Bob

Content Negotiation



Content Negotiation

```
GET /people/alice HTTP/1.1  
Host: ex.com  
Accept: text/html, application/xhtml+xml  
Accept-Language: en, de
```



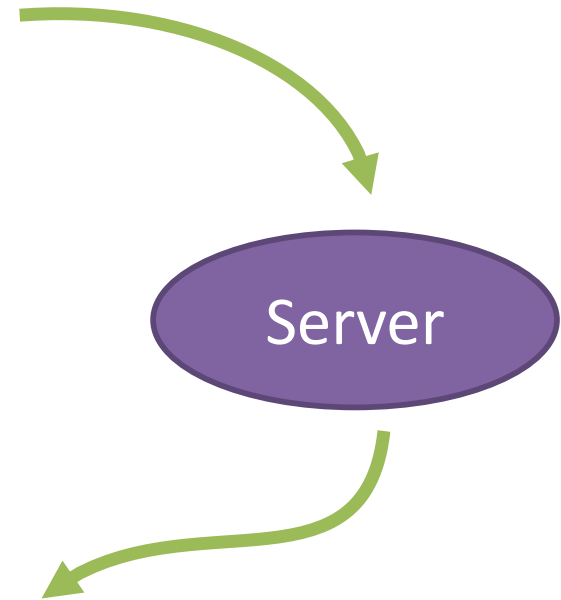
```
HTTP/1.1 200 OK  
Content-Type: text/html  
Content-Language: en  
Content-Location: http://ex.com/people.en.html  
... and the body of the page goes here ...
```

Content Negotiation

```
GET /people/alice HTTP/1.1  
Host: ex.com  
Accept: text/html, application/xhtml+xml  
Accept-Language: en, de
```

here is the closest
representation of your
Web document that I can give you

```
HTTP/1.1 200 OK  
Content-Type: text/html  
Content-Language: en  
Content-Location: http://ex.com/people.en.html  
... and the body of the page goes here ...
```





Alice, the person

```
GET /people/alice HTTP/1.1  
Host: ex.com  
Accept: text/html, application/xhtml+xml  
Accept-Language: en, de
```

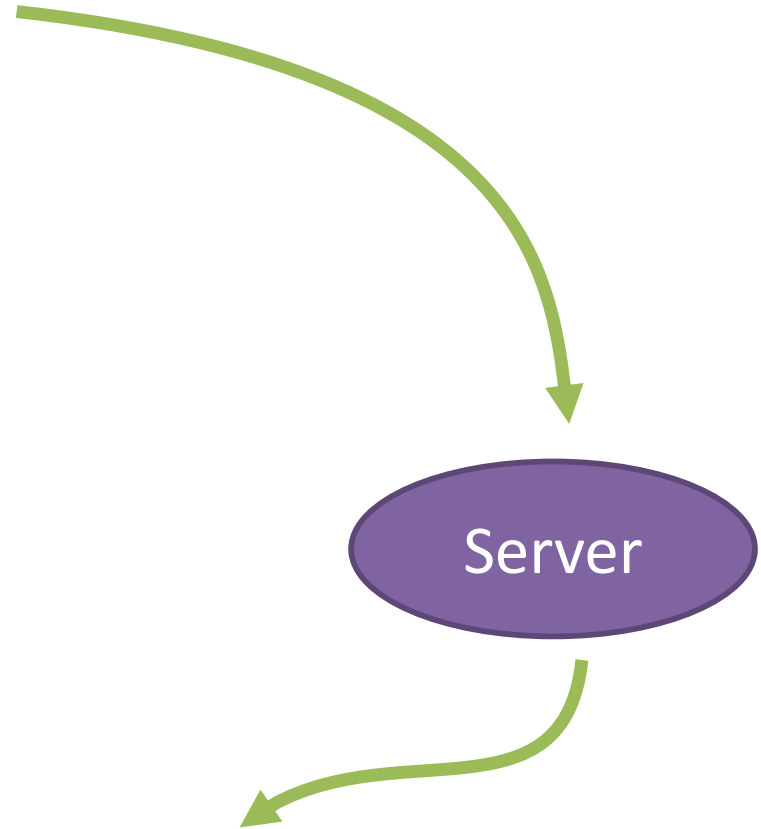
here is the closest
representation of your
Web document that I can give you

```
HTTP/1.1 200 OK  
Content-Type: text/html  
Content-Language: en  
Content-Location: http://ex.com/people.en.html  
... and the body of the page goes here ...
```





Alice, the person



here is the closest
representation of your
Web document that I can give you

```
HTTP/1.1 200 OK  
Content-Type: text/html  
Content-Language: en  
Content-Location: http://ex.com/people.en.html  
... and the body of the page goes here ...
```



Alice, the person

An HTML document is **not** a
representation of a person
it is a **representation** of a **Web**
document

HTTP/1.1 200 OK
Content-Type: text/html
Content-Language: en
Content-Location: http://ex.com/people.en.html
... and the body of the page goes here ...

we need different URIs
for **Things** and **Web**
documents

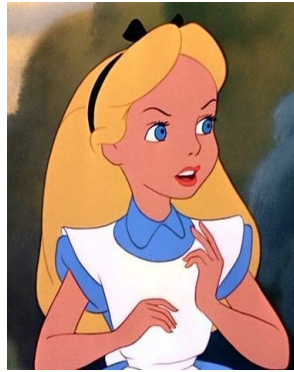


<URI-of-alice>


`http://ex.com/id/alice`

`http://id.ex.com/alice`


The Person



<http://ex.com/id/alice>



Web document



<http://ex.com/people/alice>

The Person



<http://ex.com/id/alice>

`<http://ex.com/id/alice>`
`foaf:page <http://ex.com/people/alice> .`



Web document



<http://ex.com/people/alice>

The Person



<http://ex.com/id/alice>



Web document



<http://ex.com/people/alice>



content negotiation



HTML
representation



RDF
representation

what if the two documents
don't contain the **same**
content?



HTML
representation



RDF
representation

The Person



<http://ex.com/id/alice>

Web document



<http://ex.com/people/alice>



Web document

<http://ex.com/data/people/alice>



content negotiation



<http://ex.com/people/alice-en.html>

<http://ex.com/people/alice-fr.html>

representations

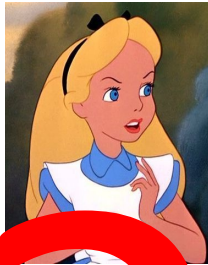
<http://ex.com/data/people/alice.rdf>

<http://ex.com/data/people/alice.n3>

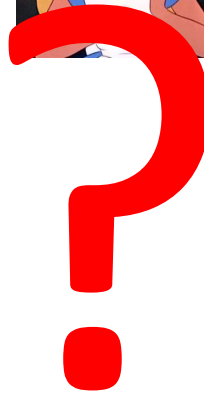
representations



The Person



<http://ex.com/id/alice>



Web document



<http://ex.com/people/alice>



Web document

<http://ex.com/data/people/alice>



content negotiation



<http://ex.com/people/alice-en.html>

<http://ex.com/people/alice-fr.html>

representations

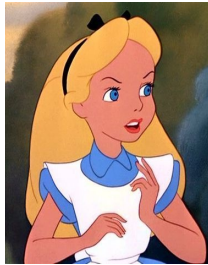
<http://ex.com/data/people/alice.rdf>

<http://ex.com/data/people/alice.n3>

representations



The Person



<http://ex.com/id/alice>

303 redirect

Web document



<http://ex.com/people/alice>



Web document

<http://ex.com/data/people/alice>



content negotiation



<http://ex.com/people/alice-en.html>

<http://ex.com/people/alice-fr.html>

representations

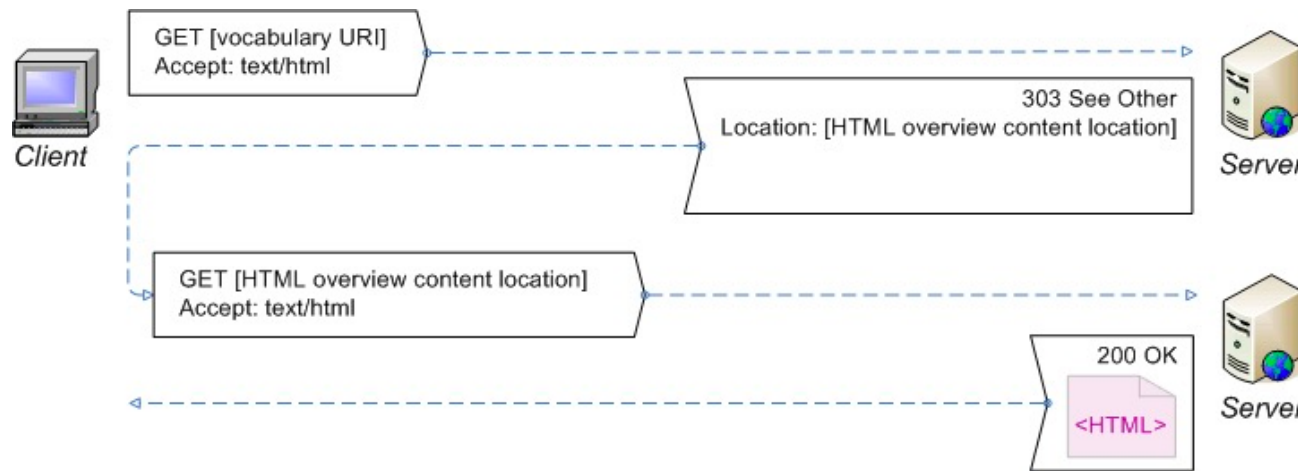
<http://ex.com/data/people/alice.rdf>

<http://ex.com/data/people/alice.n3>

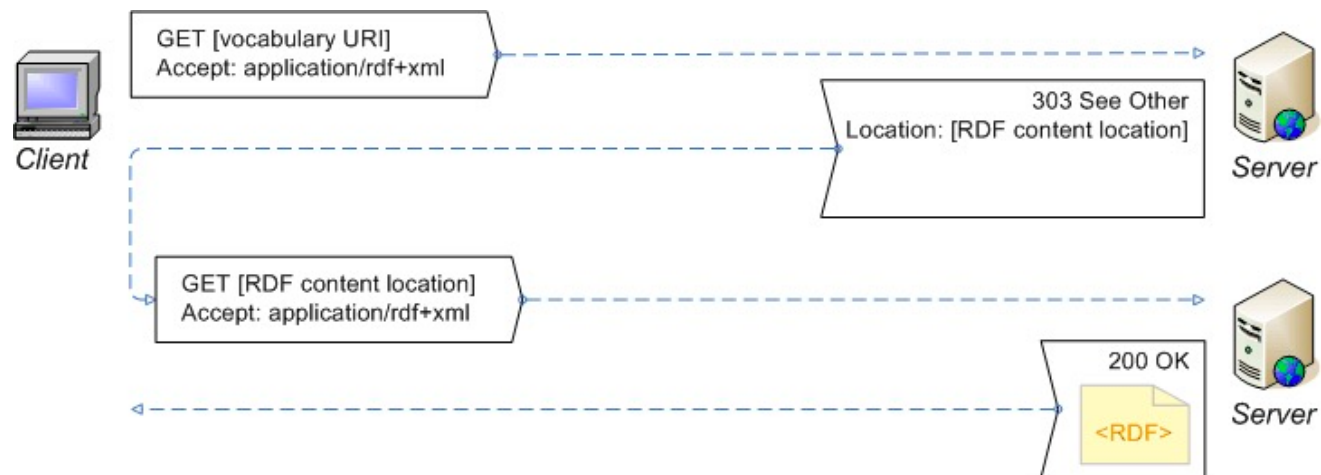
representations



Dereference the vocabulary URI, requesting **HTML** content



Dereference the vocabulary URI, requesting **RDF** content

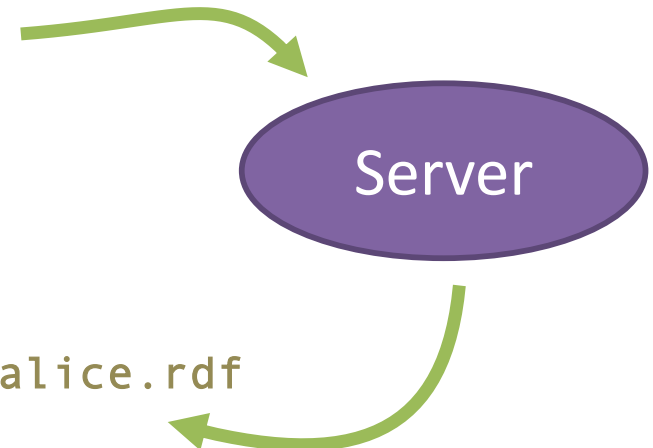
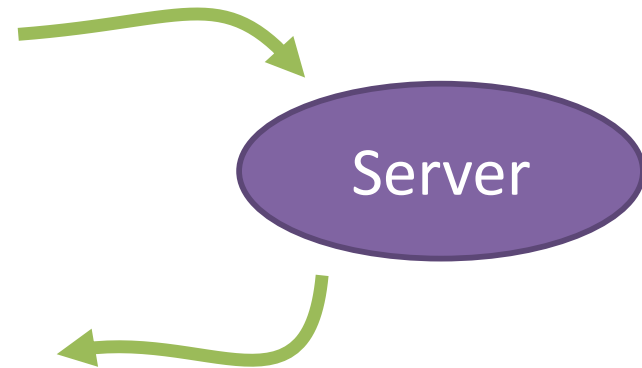


GET <http://ex.com/id/alice> HTTP/1.1
Host: ex.com
Accept: [application/rdf+xml](#)

HTTP/1.1 303 Found
Location: <http://ex.com/data/people/alice>

GET <http://ex.com/data/people/alice> HTTP/1.1
Host: ex.com
Accept: [application/rdf+xml](#)

HTTP/1.1 200 OK
Content-Type: [application/rdf+xml](#)
Content-Location: <http://ex.com/data/people/alice.rdf>
... and the body of the page goes here ...



3 URIs

thing



<http://ex.com/id/alice>

data



<http://ex.com/data/people/alice>

HTML



<http://ex.com/people/alice>

the 3 URIs are related

<http://ex.com/data/alice.n3>

```
<http://ex.com/id/alice>
  foaf:page <http://ex.com/people/alice> ;
  rdfs:isDefinedBy <http://ex.com/data/alice> ;

a foaf:Person ;
foaf:name "Alice" ;
foaf:mbox <mailto:alice@example.com> ;
...
```