

# Challenge 3 - Solution

Two little challenges:

- First, the web site <http://api.geonames.org/countryInfoJSON> gives information in JSON about countries and you should extract the capitals. You can use the 'demo' and '' as login and password.
- Second, the web site <http://www.omdbapi.com/> offers an api to get information about movies. For example using `t` allows one to specify the title of a movie. Define a query to get the poster of 'The Terminator'.

## Hints:

- Have a look at `ZnEasy` or `ZnClient`.
- To get the contents of an HTML request, send it the message contents.
- To parse and convert a string representing JSON into Pharo collection, use the `STON` class (check the class side).
- To pass a binding to a request, use the message `queryAt:put:.`
- Using the inspector is a good idea to explore objects and query results.

## Solutions

Getting the Capitals

```
((STON fromString: (
  ZnEasy
    get: 'http://api.geonames.org/countryInfoJSON'
    username: 'demo'
    password: '') contents) at: #geonames) collect: [ : d | d
```



Figure 1.1 The Poster of Terminator in a Pharo Inspector.

```
i  
[ at: #capital ]
```

## Get poster of The Terminator movie

You need a free key to get the solution fully working. Here is a possible way to do it.

```
[ (ZnEasy getJpeg:  
  ((STON fromString:  
    (ZnClient new  
      url: 'http://www.omdbapi.com/?i=tt3896198&apikey=891bda06';  
      queryAt: 't' put: 'The Terminator';  
      get;  
      contents)  
    ) at: #Poster)  
  ) asMorph openInWindow
```

When the service did not require a key we did it that way.

```
[ (ZnEasy getJpeg: ((STON fromString:  
  (ZnClient new  
    url: 'http://www.omdbapi.com/';  
    queryAt: 't' put: 'The Terminator';  
    get;  
    contents)) at: #Poster)) inspect
```