



Angular http

GFT INTERNAL TRAINING

INNOVATE. TRANSFORM. DELIVER.

Example rest service

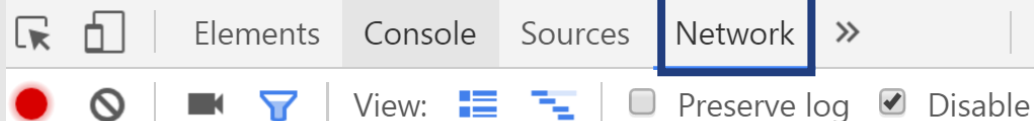
<https://restcountries.eu/rest/v2/name/ireland>

← → ↻ Es seguro | <https://restcountries.eu/rest/v2/name/ireland>

```
[{"name":"Ireland","topLevelDomain":[".ie"],"alpha2Code":"IE","alpha3Code":"IRL","callingCodes":
["353"],"capital":"Dublin","altSpellings":["IE","Éire","Republic of Ireland","Poblacht na
hÉireann"],"region":"Europe","population":6378000,"latlng":
[53.0,-8.0],"demonym":"Irish","area":70273.0,"gini":34.3,"timezones":["UTC"],"borders":
["GBR"],"nativeName":"Éire","numericCode":"372","currencies":
[{"code":"EUR","name":"Euro","symbol":"€"}],"languages":
[{"iso639_1":"ga","iso639_2":"gle","name":"Irish","nativeName":"Gaeilge"},
{"iso639_1":"en","iso639_2":"eng","name":"English","nativeName":"English"}],"translations":
```

Inspecting data in Chrome DevTools

```
[{"name": "Spain", "topLevelDomain":  
[".es"], "alpha2Code": "ES", "alpha3Code": "ESP", "callingCodes":  
["34"], "capital": "Madrid", "altSpellings": ["ES", "Kingdom of  
Spain", "Reino de  
España"], "region": "Europe", "population": 46438422, "latlng":  
[40.0, -4.0], "demonym": "Spanish", "area": 505992.0, "gini": 34.7, "ti
```



Filter

☐ Regex ☐ Hide data URLs

All | XHR | JS | CSS | Img | Media | Font | Doc | WS | Manifest | Other

20 ms

40 ms

60 ms

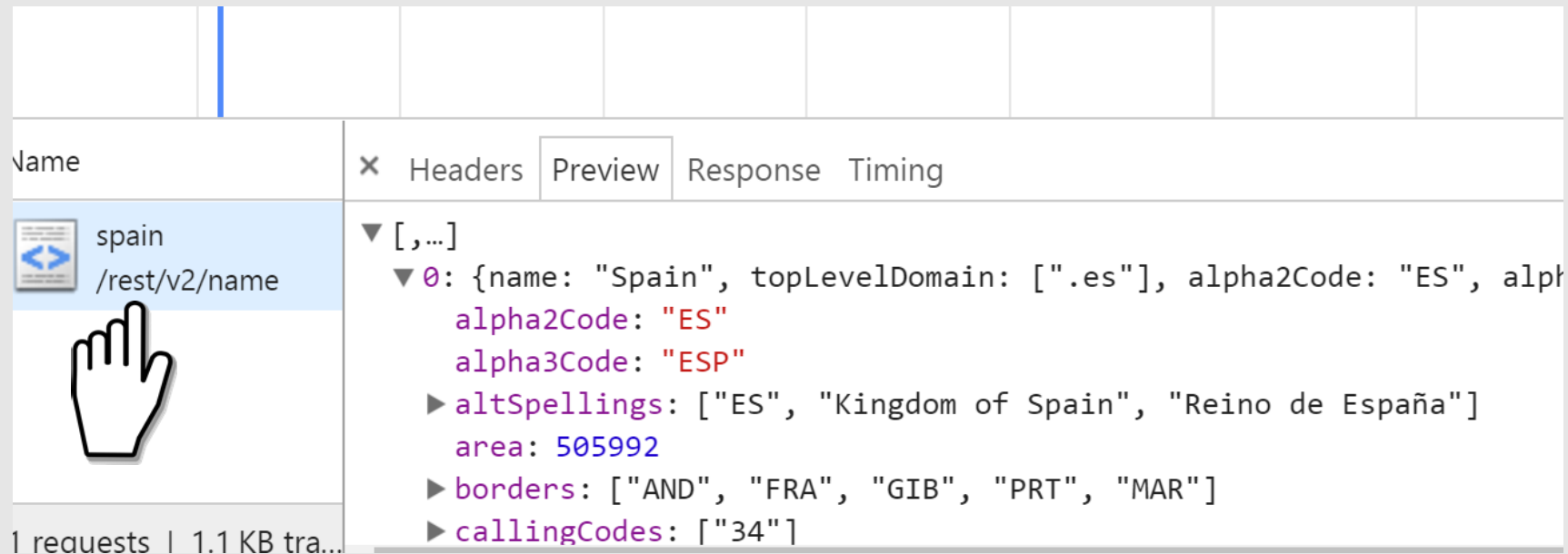
80 ms

100 ms

Recording network activity...

Perform a request or hit **F5** to record the reload.

Inspecting data in Chrome DevTools



The screenshot shows the Chrome DevTools Network tab. A request to 'spain /rest/v2/name' is selected. The 'Preview' tab is active, displaying the response data in a structured format. A hand icon points to the selected request.

1 requests | 1.1 KB tra...

Name

✕ Headers Preview Response Timing

spain /rest/v2/name

▼ [,...]

- ▼ 0: {name: "Spain", topLevelDomain: [".es"], alpha2Code: "ES", alpha2Code: "ES", alpha3Code: "ESP", altSpellings: ["ES", "Kingdom of Spain", "Reino de España"], area: 505992, borders: ["AND", "FRA", "GIB", "PRT", "MAR"], callingCodes: ["34"]}

hands on (angular app using http)

Enter a country

Find the capital

Enter a country

italy

Find the capital

Rome

```
export class CountriesComponent {  
  
  countryName: string;  
  capital: string;  
  
  constructor(private countriesService: RESTCountriesService) { };  
  
  showCapital(){  
    this.countriesService.getCountry(this.countryName)  
      .subscribe( data => this.capital = data[0].capital );  
  }  
}
```

- **Angular Http client** communicates with the server using a HTTP request/response protocol
- Http client is one of a family of services in the Angular HTTP library
- include HttpClientModule in the imports for the root NgModule allow access HTTP services from anywhere in the application

```
import { HttpClientModule } from '@angular/common/http'
```

```
@NgModule({  
  imports: [ BrowserModule,  
            FormsModule,  
            HttpClientModule  
  ],  
})
```

Works with Angular 6 or greater

restcountries.service.ts

```
import { Injectable } from '@angular/core';  
import { HttpClient } from '@angular/common/http';  
import { Observable } from 'rxjs';
```

```
@Injectable()
```

```
export class RESTCountriesService {  
  BASEURI = "https://restcountries.eu/rest/v2"  
  constructor( private http:HttpClient) { }
```

```
  getCountry( countryName: string ): Observable<any> {  
    |  
    | return this.http  
    |  
    | .get(` ${this.BASEURI}/name/${countryName}` )  
    |  
  }  
}
```

due to its asynchronous nature, the HTTP request is usually placed in services

Works with Angular 6 or greater

Version Angular 2,4,5

```
import { HttpClientModule } from '@angular/http';
```

```
@NgModule({  
  declarations: [  
    AppComponent,  
    CountriesComponent  
  ],  
  imports: [  
    BrowserModule,  
    FormsModule,  
    HttpClientModule  
  ],  
})
```

Only works with Angular 5, 4 or 2

restcountries.service.ts

```
import { Injectable } from '@angular/core';
import { Http } from '@angular/http';
import { Observable } from 'rxjs/Observable';
import 'rxjs/add/operator/map';
@Injectable()
export class RESTCountriesService {
  BASEURI = "https://restcountries.eu/rest/v2";
  constructor( private http:Http) { }

  getCountry( countryName: string ): Observable<any> {
    return this.http
      .get(` ${this.BASEURI}/name/${countryName}` )
      .map((response) => response.json())
  }
}
```

Only works with Angular 5, 4 or 2

Shaping the future of digital business

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