Angular http

GFT INTERNAL TRAINING

INNOVATE. TRANSFORM. DELIVER.

Example rest service
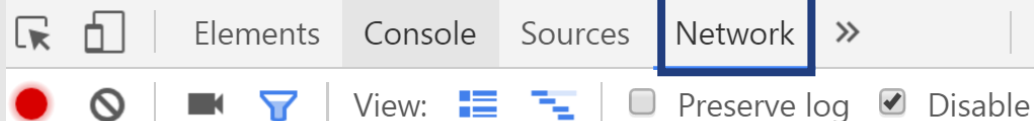
https://restcountries.eu/rest/v2/name/ireland

← → C 🔒 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

Elements Console Sources Network »

View: Preserve log Disable

Filter Regex Hide data URLs

All XHR JS CSS Img Media Font Doc WS Manifest Other
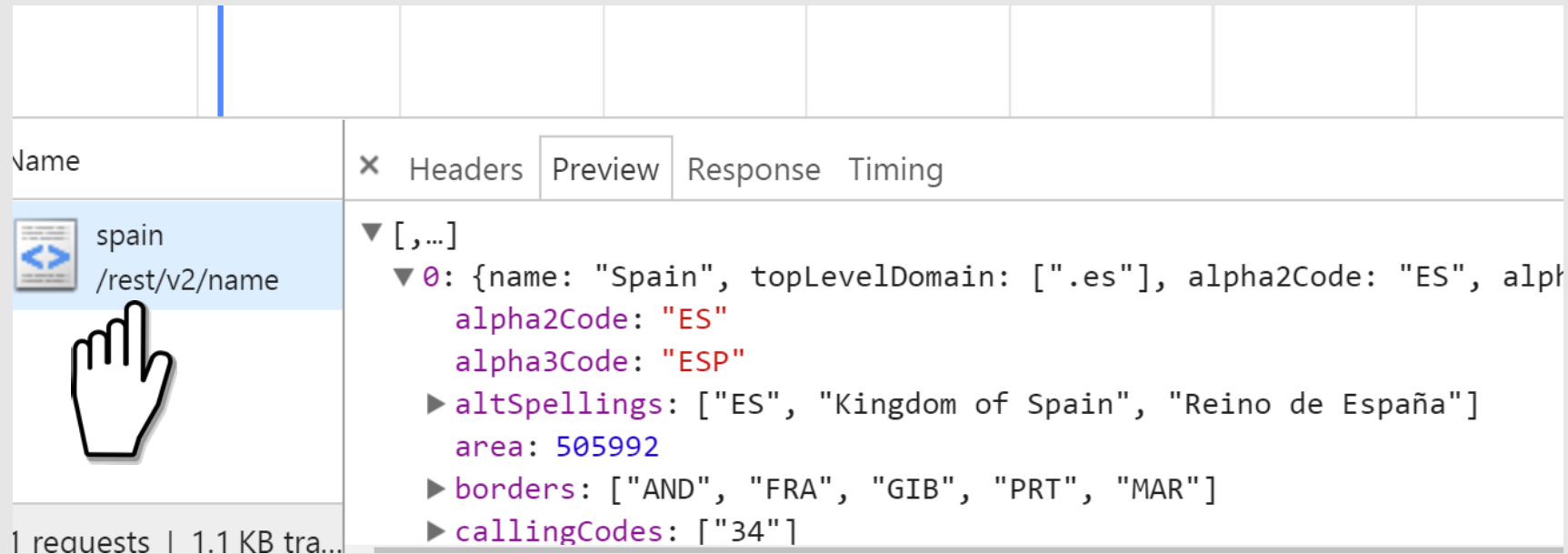
20 ms	40 ms	60 ms	80 ms	100

Recording network activity...

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

Inspecting data in Chrome DevTools

Name

✕ Headers Preview Response Timing

spain
/rest/v2/name

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

1 requests | 1.1 KB tra...

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 { HttpModule } from '@angular/http';
```

```
@NgModule({
  declarations: [
    AppComponent,
    CountriesComponent
  ],
  imports: [
    BrowserModule,
    FormsModule,
    HttpModule
  ],
```

```typescript
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())

  }

}
```

restcountries.service.ts

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Shaping the future of digital business

GFT Internal Technical Training

Eduardo García Ibaseta

eduardo.garcia-ibaseta@gft.com
+34 935 639476

GFT IT Consulting, S.L.
Av. Alcalde Barnils, 69-71
08174 Sant Cugat del Vallès (BARCELONA)