



**Max Kleiner**  
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# World News API endpoint2

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This function fetches news from a World News API endpoint, parses the JSON response, fills UI fields with article data, and downloads the first article image into an image control. It also returns a text summary of the articles it found, a sentiment analysis or an error message if the HTTP request fails. [newsapi](#) Further you can translate the text with another API.



## What it does

- Builds an HTTP GET request from `AURL`, `searchtext`, `language`, and `anumb`.
- Sends the request with JSON headers and an API key.
- Reads the response as UTF-8 text.
- Parses the JSON and expects a `news` array in the response.
- Loops through each news item and extracts fields like `title`, `text`, `summary`, `image`, `url`, `sentiment`, and `source_country`.

```

{$I .\NINJA-APIKEY2.INC} //stored API-Key

function World_News_API55(AURL, searchtext, language
var httpq: THttpRequestC; //THttpConnectionWinInet;
jo: TJSON; jarr:TJSONArray2;jobj: TJsonObject2;
Bmp: TBitmap;
begin

```



**Max Kleiner**

The Art of Coding: maXbox is a script tool engine, compiler and lib all in one exe to design and code your scripts in a shellbook! It supports Pascal, Delphi (VCL), Python (P4D), PowerShell and JS.

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```

mapStream:= TMemoryStream.create;
Bmp:= TBitmap.Create;
httpq:= THttpRequestC.create(self);
httpq.headers.add('Accept:application/json; char
httpq.headers.add('x-api-key: '+WORLDNEWS_APIKEY)
//httpq.SecurityOptions:= [soSsl13,soPct,soIgnore
try
  writ('requrl: '+wideFormat(AURL,[searchtext,1
  httpq.Get(wideFormat(AURL,[searchtext,language
  writ('http get status '+itoa(httpq.response.s
  urlback:= httpq.response.ContentAsUTF8String;
  writ('ctype transback: '+httpq.response.Cont
  jo:= TJSON.Create();
  //StringReplace( backstr, '\n\n', CR+LF,[rfRe
  writ(StringReplace(formatjson(urlback),'\n',
  jo.parse(urlback));
  jobj:= jo.JsonObject;
  cbb1.clear;
  cbb1.Text:= 'Select News Topic'
  if httpq.response.statuscode2=200 Then begin
    //result:=jobj[0].decode(urlback)
    //result:=jobj['news'].decode(urlback);
    jarr:=jobj['news'].asarray;
    //jarr.decode(jarr.stringify)
    for it:= 0 to jarr.count-1 do begin
      jobj:= jarr.items[it].asobject;
      result:= result+CRLF+itoa(it)+' '+jobj['
      result:= result+' sent: '+jobj['sentimer
      result:= result+' src: '+jobj['source_cc
      cbb1.items.add(itoa(it)+' '+htmldecode(j
      nsrec[it].ftitle:= jobj['title'].decod
      nsrec[it].ftext:= StringReplace(jobj['t
        ', '.']+C
      nsrec[it].fsummary:= jobj['summary'].dec
      nsrec[it].fimage:= StrTrimQuotes(jobj['i
      nsrec[it].furl:= StrTrimQuotes(jobj['ur]
      nsrec[it].fsentiment:= jobj['sentiment']
    end;
    //StringReplace(formatjson(urlback),'\n',
    tex1.text:= StringReplace(jobj['text'].dec
      ', '
    //)writ('response headers '+httpq.response
    writ('response headers quota used:'+httpq.
    writ('response headers quota left:'+httpq.
    newsrecord.fimage:= jobj['image'].decod
    newsrecord.furl:= jobj['url'].decode(jobj
    writ('debug '+StrTrimQuotes(newsrecord.fi
    //Http_GetStream(newsrecord.fimage, mapstr
    //mapStream.Position:= 0;
    Wininet_HttpGet(StrTrimQuotes(newsrecord.f
    writ('debug size: '+itoa(mapstream.size))
    DownloadJPGToBitmap(StrTrimQuotes(newsrecc
    //img11.Picture.bitmap.LoadFromStream(maps
  end else result:='REST API Failed: '+
    itoa(Httpq.response.statuscode2)+htt
except
  println('EWI_HTTPS: '+ExceptionToString(excep
finally
  httpq.free;
  httpq:= Nil;
  jo.free;
  mapstream.free;

```

```
    bmp.free();
  end;
end;
```

- Populates:
  - `cbb1` with article titles,
  - `newsrecarray[]` with per-article data,
  - `tex1` with the last article text,
  - `newsrecord` with the last article's image and URL.
- Downloads the image from the last parsed article into `img11.Picture.Bitmap`.

## Return value

If the request succeeds, the function returns a concatenated string containing each article's index, title, sentiment, and source country. If the HTTP status is not 200, it returns an error string with the status code and response headers. [newsapi](#)

The API Get template with string concatenation and the main call example:

```
TBASE_WORLDNEWSAPI_URL10 =
'https://api.worldnewsapi.com/search-news?
text=%s&language=%s&number=%d&earliest-publish-
date=2026-06-01';
```

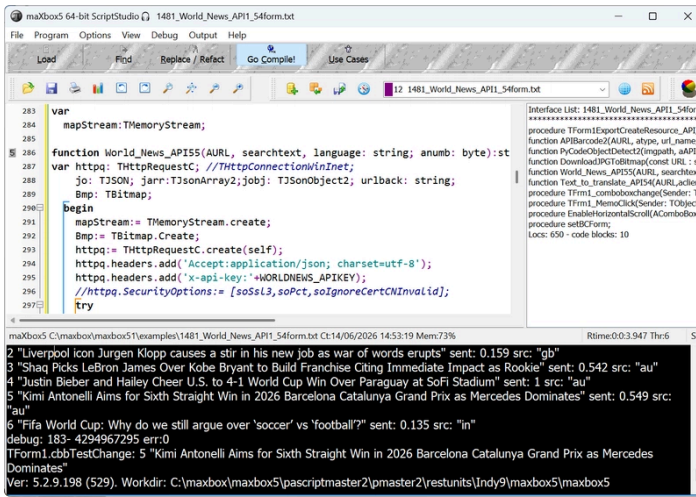
```
maxform1.setconsole;
SetBCForm();
PrintIn(World_News_API55(TBASE_WORLDNEWSAPI_URL10, '
<img alt="Screenshot of a console output showing a URL and a scrollbar." data-bbox="210 585 605 600"/>
```

## Important side effects

- It clears and repopulates the combo box.
- It changes text in the UI.
- It stores article data into global or form-level variables.
- It performs network I/O and image download as part of the same routine.

## Code quirks

- `Bmp` is created but never used.
- `jo`, `mapStream`, and `httpq` are freed in `finally`, but `jo` may be unsafe if parsing fails before assignment.
- The function uses the last item in the loop to set `tex1`, `newsrecord`, and the downloaded image.
- It assumes the JSON has a top-level `news` array; if the API format differs, it will fail or misbehave.



The `THttpRequestC` dependency is significant because it's the HTTP client component that makes the entire function work: it performs the actual network request to the World News API and returns the response the function parses.

### Key significance

Aspect	Why it matters
<b>Network I/O</b>	Without <code>THttpRequestC</code> , the function cannot make HTTP GET requests to fetch news data <a href="#">github</a>
<b>Custom Delphi component</b>	It's a third-party wrapper for WinInet (indicated by the comment <code>//THttpConnectionWinInet</code> ), not a standard Delphi RTL class like <code>THTTIClient</code> or <code>TNetHttpRequest</code> <a href="#">github</a>
<b>Response data access</b>	It provides <code>response.statuscode2</code> , <code>response.ContentAsUTF8String</code> , and <code>response.headers</code> —all critical for checking success, reading JSON, and accessing quota headers <a href="#">github</a>
<b>Header management</b>	It lets you add custom headers ( <code>Accept</code> , <code>x-api-key</code> ) required by the API <a href="#">github</a>
<b>Compilation dependency</b>	Your project must include the unit that defines <code>THttpRequestC</code> in the <code>uses</code> clause; otherwise the code won't compile

### Practical implications

- **Portability:** Since it's a custom wrapper for WinInet, the code is tied to Windows platforms (WinInet is

Windows-only) [github](#)

- **Availability:** You need to have the `HttpComponent` library (or equivalent) installed; it's not part of standard Delphi/RAD Studio [github](#) In maXbox5 the component is included as prebuilt coreclass
- **Alternatives:** Standard Delphi HTTP classes (`THTTPClient`, `TNetHTTPClient`, `IdHTTP`) could replace it but would require refactoring the code [blog.csdn](#)

In short, `THttpRequestC` is the core HTTP transport layer—without it, the function has no way to communicate with the API.

Script is available at:

[1481\\_World\\_News\\_API1\\_54form.txt](#)

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Max Kleiner 👤 • 14. Juni ⋮



Sentiment analysis (also known as opinion mining) is the use of natural language processing, text analysis, computational linguistics, and biometrics to systematically identify, extract, quantify, and study affective states and subjective information.

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