

## maXbox6

all about code blocks

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## Free Google Translator API

February 6, 2026

While learning katakana through the source code of Google's [Google Dictionary Chrome extension](#), which has support for translating via Google Translate, I found the web frontend endpoint they use in order to do just that.

We don't need an API-Key or an registration account and can call and use almost any Rest-Client as get or post:

URL: [https://clients5.google.com/translate\\_a/t?client=dict-chrome-ex&sl=auto&t1=en&q=bonjour](https://clients5.google.com/translate_a/t?client=dict-chrome-ex&sl=auto&t1=en&q=bonjour)

```

158 var httpq: THttpClient;
159     rets: TStrings;
160     heads: TStrings; iht: IHttpClient;
161     jo: TJSON; jarr: TJSONArray;
162 begin
163     httpq := THttpClient.Create(true);
164     rets := TStrings.Create('');
165     heads := TStrings.Create('');
166     heads.Add('User-Agent: '+USERAGENT5);
167     heads.Add('Content-type:application/json');
168     //heads2.Add('Content-type:application/json; charset=UTF-8');
169     iht := httpq.SetHeaders(heads);
170     try
171         httpq.Get(Format(TBASE_URL, [Langorig, Langtarget, atext]), rets);
172         writeln('server31: '+httpq.GetResponseHeader('server'));
173         rets.SaveToFile(exepath+'examples\saveTrans.txt');
174         //OpenFile(exepath+'examples\saveFromStream2.txt')
175     except
176     end;
177 end;

```

```

Interface List: 1465_GoogleTranslate_API1_2.txt
*****
function GoogleTranslate(const Text, SrcLang, D
function Text_to_translate_API5(AURL, actent);
function Text_to_translate_API5(AURL, actent,
procedure FreeTranslate_API_Post(Sender: TObj
procedure TForm1.ExportMapToAPI_Post(Sender
procedure TForm1.ExportCreateResource_API_P
function GEO_to_text_API2_randimage(AURL,
function PyObjectDetect2(imgpath, aAPIKey
Locs: 510 - code blocks: 9

```

```

[
  [
    "こんにちは、デザインを伴うコーディングの街から来た友達です",
    "bonjour mes amis da la ville de coding avec design",
    null,
    null,
    3,
  ],
]

```

[https://sourceforge.net/projects/maxbox5/files/examples/1465\\_GoogleTranslate\\_API1\\_3.txt/download](https://sourceforge.net/projects/maxbox5/files/examples/1465_GoogleTranslate_API1_3.txt/download)

TStrings is tied to a *specific encoding* that has to be declared in the *constructor* before the stream is populated with data, and it cannot be changed dynamically. The default encoding is TEncoding.Default, which represents the OS default encoding. If the HTTP response uses a *different* encoding, the data will not decode to a String correctly.

Second, we have to make sure to seeking the stream's Position back to 0 before calling ReadString(). An easier way to retrieve a TStrings's

content as a decoded String is to use the DataString property instead, which ignores the Position property and returns the entire stream content as a whole or in my case to use the file-system store with SavetoFile and loadFromFile:

```

1  function Text_to_translate_API52(AURL,aclient,langorig,langta
2  var httpq: THttpConnectionWinInet;
3      rets: TStringStream; heads: TStringList; iht: IHttpConnectio
4  jo: TJSON; jarr:TJSONArray2;
5  begin
6      httpq:= THttpConnectionWinInet.Create(true);
7      rets:= TStringStream.create('');
8      heads:= TStringList.create;
9      heads.add('User-Agent='+USERAGENT5);
10     heads.add('Content-type=application/json');
11     iht:= httpq.setHeaders(heads);
12     try
13         httpq.Get(Format(TBASE_URL,[langorig,langtarget,atext])
14         writeln('server31: '+Httpq.GetResponseHeader('server')
15         rets.savetofile(exepath+'examples\savetrans.txt')
16         //openFile(exepath+'examples\savefromstream2.txt')
17
18         jo:= TJSON.Create();
19         jo.parse(loadfileUC(exepath+'examples\savetrans.txt'))
20         jarr:= jo.JsonArray;
21         if httpq.getResponsecode=200 Then
22             result:=jarr[0].decode(loadfileUC(exepath+'examples
23         else result:='Rest API Failed: '+
24             itoa(Httpq.getResponsecode)+Httpq.GetResponse
25     except
26         writeln('EWI_HTTP: '+ExceptionToString(exceptiontype,e
27     finally
28         //httpq.free;
29         httpq:= Nil;
30         rets.Free;
31         jo.free;
32         heads.free;
33     end;
34 end;

```

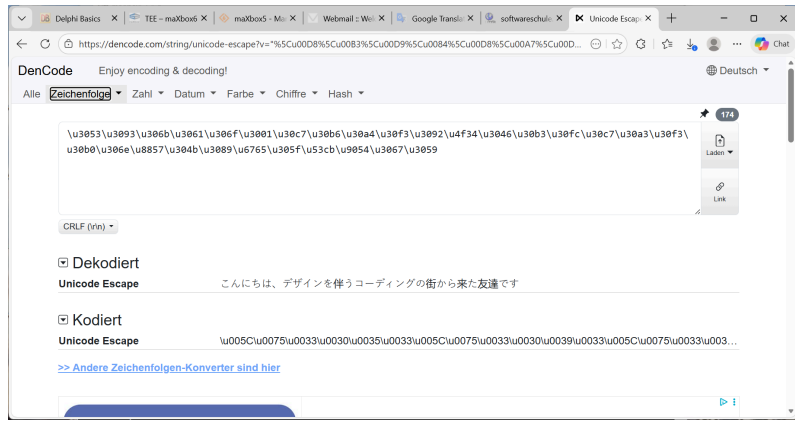
I am sending an HTTP Get request to Google's Translator endpoint API, and I fill my StringStream with the response from the frontend-endpoint:

```

1  httpq:= THttpConnectionWinInet.Create(true);
2  rets:= TStringStream.create('');
3  heads:= TStringList.create;
4  heads.add('User-Agent='+USERAGENT5);
5  heads.add('Content-type=application/json');
6  iht:= httpq.setHeaders(heads);
7  try
8      httpq.Get(Format(TBASE_URL,[langorig,langtarget,atext])
9      writeln('server31: '+Httpq.GetResponseHeader('server')
10     rets.savetofile(exepath+'examples\savetrans.txt')

```

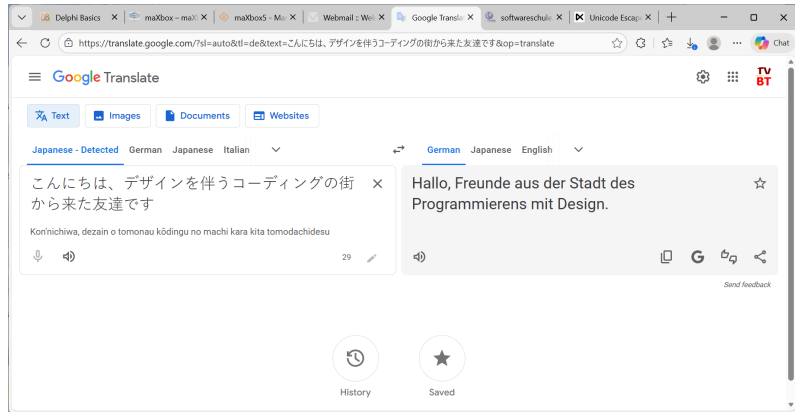
Special attention has to be made with Unicode and for example the Japanese Language, thus, the number of characters in Japanese is many more than 256 and thus cannot be encoded using a single byte – Japanese is thus encoded using two or more bytes, in a so-called “double byte” or “multi-byte” encoding. Problems that arise relate to [transliteration](#) and [romanization](#), character encoding, and input of Japanese text.



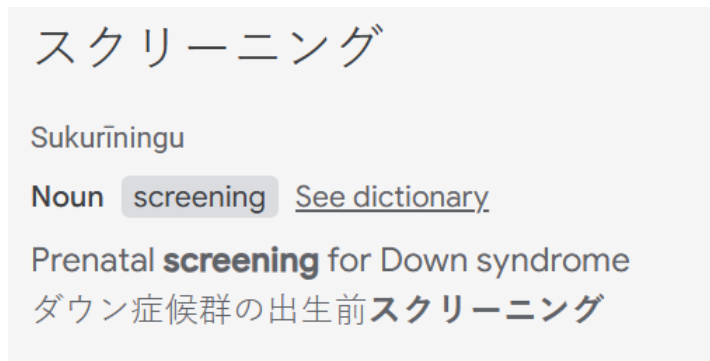
Unicode Escape Sequences in JSON Return

There are several standard methods to encode Japanese characters for use on a computer, including JIS, Shift-JIS, EUC, and Unicode. While mapping the set of kana is a simple matter, kanji has proven more difficult.

In the end we got an almost same result like the well known translator:



Google Translate



It depends on the language to call more functions like a dictionary

## Parameters and Errors

You do have several parameters to call the API:

## Breakdown

Endpoint: [https://clients5.google.com/translate\\_a/t](https://clients5.google.com/translate_a/t)

### Query Parameters

Query Parameter	Default	Notes
client	dict-chrome-ex	Needs to be dict-chrome-ex or else you'll get a 403 error.
sl	auto	Designates the source language of the text to translate.
tl	(none)	Designates the destination language of the text to translate.
q	(none)	Text to translate

Written Japanese uses several different scripts: kanji (Chinese characters), 2 sets of *kana* (phonetic syllabaries) and roman letters. While kana and roman letters can be typed directly into a computer, entering kanji is a more complicated process as there are far more kanji than there are keys on most keyboards.

We call the function like the following:

```

1  const
2  TBASE_URLS = 'https://clients5.google.com/translate_a/t?clie
3
4  atext:= 'Programmieren mit Design';
5  writeln((Text_to_translate_API52(TBASE_URLS, 'dict-chrome-ex', '

```

In the end you can trap mostly in two types of error:

1 (502) 875 err:20

EWL\_HTTP: Exception: Can not send REST message

[https://translate.googleapis.com/translate\\_a/single?](https://translate.googleapis.com/translate_a/single?)

*client=gtx&dt=t&sl=auto&tl=ja&q=bonjour mes amis da la ville of coding avec design, error: Bad Gateway (502)*

2 debug: 222- 875 err:21

debug: 207-The requested header could not be located. 878 err:20

REQC\_Err: Exception: The requested header could not be located.

First (Gateway) means you don't have a valid JSON [] or stream object () to send and the second (header) could be an invalid request header:

```

1  USERAGENT5 = 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleW
2  ' Chrome/126.0.0.0 Safari/537.36 E
3  heads:= TStringlist.create;
4  heads.add('User-Agent='+USERAGENT5);
5  heads.add('Content-type=application/json');
6  iht:= httpq.setHeaders(heads);

```

It seems like a great discovery cause the API is simple to use and powerful in result with support of many languages and also the provided JSON has an automatic (parameter auto) language detection inside:

server31: ESF

```


[
  [
    "デザインを取り入れたプログラミング",
    "Programmieren mit Design",

```

```

null,
null,
3,
null,
null,
[
  [
  ],
  [
  ]
],
[
  [
    [
      "ad3d68f0fc47c8c7a84213b3d785dc3a",
      "de_en_2023q1.md"
    ]
  ],
  [
    [
      "466914b2b9b759682681a550c00b67dd",
      "en_ja_2023q1.md"
    ]
  ]
]
]
],
null,
"de",
null,
null,
null,
1,
[
],
[
  [
    "de"
  ],
  null,
  [
    1
  ],
  [
    "de"
  ]
]
]

```

mX5  executed: 06/02/2026 16:06:12 Runtime: 0:0:2.710  
 Memload: 71% use


## Conclusion

The Google Translate API is a powerful tool for developers and businesses looking to integrate translation capabilities into their applications. It offers two main versions: Basic (V2) and Advanced (V3), with the latter providing features like gl

ossaries for consistent translations and AutoML for custom translation models. Key features include:

- Glossaries: User-defined dictionaries for specific terms.
- Batch Translation: Efficient processing of multiple translations at once.
- Document Translation: Directly translating documents while preserving fo rmatting.

For a successful implementation, it's crucial to use IAM accounts for secur ity and to plan for cost control and compliance with regulations like DSGVO Q.2

-  2 Quellen
- Also a free API endpoint with no management and support available.



Speak the Locomotion Languages

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