

Code Blog

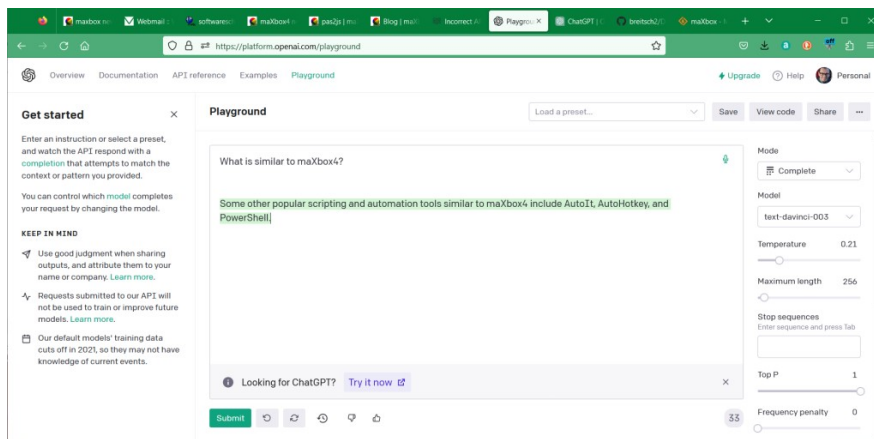
How to chat with GPT

 [maxbox4](#)  [April 1, 2023](#)  [Code, Machine Learning, maXbox](#)  [ai, chatgpt, maXbox](#)
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GPT stands for Generative Pre-trained Transformer. It is a deep learning model based on the Transformer architecture that has been pre-trained on a large corpus of text data. GPT is used for natural language processing tasks such as language modeling, text generation, and question answering.

ChatGPT is an AI-based chatbot developed by OpenAI that can be used in various ways across many industries.

First you need an account:



Playground with GPT

Second, you need to register an Open AI account, (**Note: This is required**). Then open [website](#), Log in first. After the login is completed, it is still at the previous [website](#)

Then you can use a maXbox script to get access to the server:

```

114 //atext:= 'guten tag meine freunde';
115 //writeln(Text_to_translate_API2(AURL, 'dict-chrome', 'es', atext));
116 //writeln(Text_to_translate_API2(AURL, 'dict-chrome-ex', 'fr', 'es', atext));
117 //writeln(utf8ToAnsi(Text_to_translate_API2(AURL, 'dict-chrome-ex', 'auto', 'it', atext)));
118 //writeln(utf8ToAnsi(Text_to_translate_API2(AURL, 'dict-chrome-ex', 'auto', 'it', atext)));
119 sleep(500);
120
121 (jo:= TJJSON.Create());
122 try
123   jo.parse(TESTRS_JSON)
124   writeln('answer: '+jo.values['choices'].asarray[0].asobject['text'].asString);
125 except
126   writeln(ExceptionToString(exceptiontype, exceptionparam));
127 end;
128 jo.free; //()
129
130 //writeln(AskChatGPT('how large is the earth?'));
131 writeln(AskChatGPT('What is maXbox4?'));
132
133 End.

```

```

server: ESF
["Un documento di ricerca suggerisce di migliorare le prestazioni del GPT-4 del 30% facendo in modo che fosse sbagliato." "en"]
Answer2: maXbox4 is a free and open source software development tool for creating and running programs written in the Object Pascal programming language. It is designed to be used with the Lazarus IDE, and is based on the Delphi compiler. maXbox4 is a powerful tool for creating applications for Windows, Linux, Mac OS X, iOS, and Android. It includes a wide range of features, such as a visual designer, debugging tools, and a code editor.
maXbox4 executed: 30/03/2023 22:27:07 Runtime: 0:0:3.824 Memload: 49% use
PascalScript maXbox4 - FenObjects & SynEdit

```

maXbox GPT Script

Due to the limitation of OpenAI's official server, the ChatGPT model cannot be used temporarily. So the plugin accesses the GPT3 model. It's a relatively old model and not very smart. But it can be used normally.

That's how the code looks in maXbox or Python:

```

1 function TALHTTPClient2_AskChatGPT(feedstream:string;
2                                     aResponseHeader:TALHTTPResponseHeader2)
3 Var
4   poststrm: TStream;
5   JPostdata, aturl: string;
6   jo: TJJSON;
7 begin
8   JPostData:= '{' +
9     '"model": "text-davinci-003",' +
10    '"prompt": "%s",' +
11    '"max_tokens": 2048,' +
12    '"temperature": 0.3'+
13    '}' ;
14
15   with TALWininetHttpClient2.create do begin
16     atUrl:= 'https://api.openai.com/v1/completions';
17     //RequestHeader.UserAgent:= UAGENT;
18     RequestHeader.ContentType:= 'application/json';
19     RequestHeader.Authorization:= 'Bearer '+ CHATGPT_APIKEY2;
20     try
21       poststrm:= TStringStream.create(format(JPostData, [feedstream]))
22       jo:= TJJSON.Create();
23       jo.parse(Post3(atUrl, poststrm, []))
24       result:=jo.values['choices'].asarray[0].asobject['text'].asString;
25     finally
26       Free;
27       poststrm.Free;
28       jo.Free;
29     end;
30   end; //with
31 end;

```

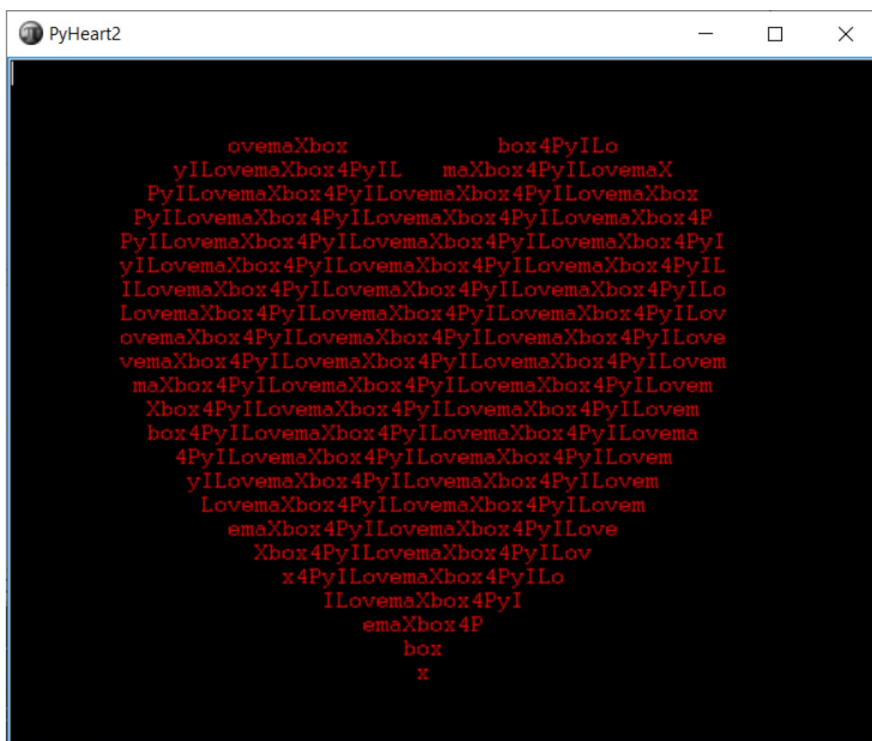
The ChatGPT API allows developers to integrate ChatGPT into their own applications, products, or services as a result of JSON. The API endpoint for making POST requests is api.openai.com/v1/chat/completions

One important thing is the temperature. **Temperature** is a hyperparameter used in some natural language processing models, including **ChatGPT**, to control the level of randomness or “creativity” in the generated text. Higher **temperatures** result in more diverse and unpredictable output. Conversely, lower **temperatures** result in more conservative and predictable output.

```
1  const genfunc =
2      'def generate_response(prompt):'           '+LF+'
3      '    response = openai.Completion.create(' '+LF+'
4      '        engine="text-davinci-002",'      '+LF+'
5      '        prompt=prompt,'                 '+LF+'
6      '        max_tokens=60,'                 '+LF+'
7      '        n=1,'                           '+LF+'
8      '        stop=None,'                     '+LF+'
9      '        temperature=0.5,'               '+LF+'
10     '    )'                                   '+LF+'
11     '    return response.choices[0].text.strip()';
12
13  function Python32_AskChatGPT(feedstream: string): string;
14  begin
15  with TPythonEngine.Create(Nil) do begin
16      pythonhome:= PYHOME;
17      try
18          loadDLL;
19          execStr('import openai');
20          //https://github.com/sknetwork-team/scikit-network/issues/498
21          execStr('openai.api_key = "sk-your-api-key"');
22          execStr(genfunc);
23          //execStr('connection.request("GET","api.parse.com/echo")');
24          println(evalStr('openai.version'));
25          println(evalStr('generate_response("What is the capital of Fran
26      except
27          raiseError;
28      finally
29          unloadDLL;
30          free;
31      end;
32  end;
33  end;
```

You can sign up using your email address or Google/Microsoft account.

1. After signing up, you will receive a verification email in your provided email address.
2. You will also need to verify your account with a mobile number.
3. Once you have verified your account, you can generate an API key.
4. To generate an API key, log in to your OpenAI account and visit the API keys page.
5. Click on your profile in the top-right corner and select “View API Key” to get your key.
6. Click on “Create new secret key” to generate a new key. The API key is used to authenticate requests made to the OpenAI API.



Conclusion

Natural Language Processing (NLP) has become increasingly popular over the years, and ChatGPT API is one of the most powerful tools to implement NLP. The API provides access to OpenAI's GPT-3 language model, allowing you to generate natural language responses to any input text. In this blog, we will go through a step-by-step guide on how to use OpenAI's ChatGPT API in Python and maXbox, along with code examples.

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2 thoughts on “How to chat with GPT”

maxbox4

April 1, 2023 at 8:39 am



in case you dont have valid apikey: Exception: : Incorrect API key provided: sk-your-***-key.
You can find your API key at <https://platform.openai.com/account/api-keys>.

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April 1, 2023 at 12:45 pm



Along with the prompt, the temperature is one of the most important settings. It has a significant impact on the output, so it's worth spending some time explaining it. The temperature controls how much randomness is in the output.

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