

OpenAI Talk

Setting Up An Account – go to openai website

- Go to <https://openai.com>, click on 'API', then 'Get started'.
- Create your account, you will get five bucks credit to start with.
- Make sure you're logged in, then create an API key or two... These are master keys to use the API. You get nowhere without them and you get billed each time a key is used. You can trash them and make new ones and maybe doing this every so often is a good security measure. Also, its a good idea to set usage limits and alerts in case someone gets one of your keys.
- You can check your usage here to see how much money you've used. I funded my account with twenty bucks and that will probably last me quite some time.

The Basic Parts

- Prompt - this is a, perhaps quite long, text describing what you want OpenAI to do
- Completion or Image – this is what you get back
- Model – various rules OpenAI uses for composing an answer – some models are terse, others verbose.
- Temperature, Frequency_Penalty, Presence_Penalty – parameters to control how bold and how varied the completion is.
- Tokens – these are how OpenAI chops up text. These are what you pay for

Experimenting with the API – Development Mode

- The easiest way is to knock out a web ap, where you can fool with the various parameters. You could also do this with JS in Node or Python, but the web-ap seems to me the easiest.
- NPM install -S openai.
- Include openai in your project.
- Create an API interface object:

```
const openai = new OpenAI({apiKey: 'my_openai_api_key',  
                           dangerouslyAllowBrowser: true});
```

- The API is promise-based so a typical call would look like:

```
await openai.somecall({requestObj}).then(
```

```

    data => {
      doSomethingWithTheData;
    },
    err => {
      doSomethingWithTheError;
    }
  );

```

Using the API – Production Mode

- To keep your keys safe, Production should make all OpenAI calls through a server endpoint.
- Node / Express example.
- Switch {} / named function – switch offers a layer of obscurity.

Prompts

- max_tokens & prompts

prompt: 'Sound enthusiastic in five words or less.' - generic 'stop'.

prompt: 'Generate a short message to enthusiastically say "\${outline}" sounds interesting and that you need some minutes to think about it. Mention one aspect of the sentence.', needs more max_tokens

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- Zero shot approach – prompt is just an instruction – completion is often less than desired or often completely off topic.

prompt: `Create 50 words of advertising copy for \${productName}, which can be described as \${productDesc} aimed at \${productTarget}.

`,

max_tokens: 100,

- Few shot approach – instruction, complete example or two, then a template. (separate instruction, examples with hashes).

prompt: `Use a product name, a product description and a target market to create advertising copy for a product.`,

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product name: Flask Tie

product description: A tie with a pouch to hold liquids and a straw to drink through

product target market: office workers

advertising copy: Are you tired of having to worry about how much to drink throughout the day? With the Flask Tie, you can stay hydrated on-the-go! Our unique tie features a pouch that enables you to securely hold and sip your favorite drinks with the built-in straw! The water cooler is history! Long live Flask Tie!

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product name: \${productName}
product description: \${productDesc}
product target market: \${productTarget}
advertising copy: