Sources: **https://github.com/rcc-uchicago/NLP_with_GPT3**

I. **Introduction**

    a. ***What is a transformer, and how does GPT-3 work?***
(API only @ present, GPT-2 is available on Midway)

    "The GPT-3 Architecture, on a Napkin"
https://dugas.ch/artificial_curiosity/GPT_architecture.html

    b. ***"masking"*** → ***iterative token prediction***

II. **Using GPT-3 : Basics**

    a. **Logging in to OpenAI**

    b. **The OpenAI "Playground" UI**
       vs.
    Running in Python or Curl with an API Key ("< >")

    c. **How the results are generated & an NSFW warning**

    d. **What all can GPT-3 do? Examples page:**
https://beta.openai.com/examples

III. **Generating Text from a Custom Prompt using GPT-3**

    a. **The 4 models: Ada, Babbage, Curie and Davinci**
https://beta.openai.com/docs/engines

    b. **Examples of Generative Text using each of the 4 "Engines" (models) :**
https://beta.openai.com/playground?model=ada

    c. **Generative text: Using custom parameters (temperature, Top P)**

IV. **Classification using GPT-3** https://beta.openai.com/docs/guides/classifications

    a. **Sentiment analysis classification: Tweet Classifier**
https://beta.openai.com/playground/p/default-adv-tweet-classifier

V. **Summarization using GPT-3** https://beta.openai.com/docs/examples/summarization

    a. **Default tl;dr Summarization ("Summarization for a 2nd-Grader"):**
https://beta.openai.com/playground/p/default-summarize

VI. **Chat (chatbots)**

    a. **Default chatbot**
https://beta.openai.com/playground/p/default-chat

VII. **Question-Answering (Q&A)**

    a. **Default Q&A**
https://beta.openai.com/playground/p/default-qa

VIII. **Translation: English to French**

    a. **Default translation**
https://beta.openai.com/playground/p/default-translate

IX. **Evaluating GPT-3 : Performance and Results**

    a. **Human-based evaluation (hand-coding)**
    b. **Programmatic evaluation (e.g. SQuAD)** rajpurkar.github.io/SQuAD-explorer

X. **GPT-3 and the Future of NLP / NLU**