## **Figma**

This notebook covers how to load data from the Figma REST API into a format that can be ingested into LangChain, along with example usage for code generation.

The Figma API Requires an access token, node\_ids, and a file key.

The file key can be pulled from the URL. https://www.figma.com/file/{filekey}/sampleFilename

Node IDs are also available in the URL. Click on anything and look for the '?node-id={node\_id}' param.

Access token instructions are in the Figma help center article: https://help.figma.com/hc/en-us/articles/8085703771159-Manage-personal-access-tokens

```
figma_loader = FigmaFileLoader(
   os.environ.get('ACCESS_TOKEN'),
   os.environ.get('NODE_IDS'),
   os.environ.get('FILE_KEY')
)
```

```
# see https://python.langchain.com/en/latest/modules/indexes/getting_started.html
```

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```
index = VectorstoreIndexCreator().from_loaders([figma_loader])
figma_doc_retriever = index.vectorstore.as_retriever()
```

```
def generate_code(human_input):
    # I have no idea if the Jon Carmack thing makes for better code. YMMV.
https://python.langchain.com/en/latest/modules/models/chat/getting started.html
for chat info
    system prompt template = """You are expert coder Jon Carmack. Use the provided
design context to create idomatic HTML/CSS code as possible based on the user
request.
    Everything must be inline in one file and your response must be directly
renderable by the browser.
    Figma file nodes and metadata: {context}"""
    human prompt template = "Code the {text}. Ensure it's mobile responsive"
    system message prompt =
SystemMessagePromptTemplate.from template(system prompt template)
    human message prompt =
HumanMessagePromptTemplate.from template(human prompt template)
    # delete the gpt-4 model name to use the default gpt-3.5 turbo for faster
    gpt 4 = ChatOpenAI(temperature=.02, model name='gpt-4')
    # Use the retriever's 'get relevant documents' method if needed to filter down
    relevant nodes = figma doc retriever.get relevant documents(human input)
    conversation = [system message prompt, human message prompt]
    chat prompt = ChatPromptTemplate.from messages(conversation)
    response = gpt 4(chat prompt.format prompt(
        context=relevant nodes,
        text=human input).to messages())
    return response
```

```
response = generate_code("page top header")
```

Returns the following in response.content:

```
name="viewport" content="width=device-width, initial-scale=1.0">\n <style>\n
   @import url(\'https://fonts.googleapis.com/css2?
family=DM+Sans:wght@500;700&family=Inter:wght@600&display=swap\');\n\n
                                                                  body
            margin: 0;\n
                                 font-family: \'DM Sans\', sans-serif;\n
{\n
  }\n\n
             .header {\n
                                 display: flex;\n
                                                        justify-
content: space-between;\n
                               align-items: center;\n
                                                            padding:
               background-color: #fff;\n
20px;\n
                                               box-shadow: 0 2px 4px
rgba(0, 0, 0, 0.1);\n
                        }\n\n
                                  .header h1 {\n
                                                         font-size:
16px;\n
               font-weight: 700;\n
                                         margin: 0;\n
                                                           }\n\n
d: ---1---- .C1----\--
```

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```
weight: 500;\n
                     text-decoration: none;\n
                                                    color: #000;\n
    margin-left: 20px;\n
                           }\n\n
                                      @media (max-width: 768px) {\n
   .header nav {\n
                             display: none;\n
                                                              }\n
                                                    }\n
                                                     <h1>Company
Contact</h1>\n
                  <nav>\n
                                  <a href="#">Lorem Ipsum</a>\n
<a href="#">Lorem Ipsum</a>\n
                                  <a href="#">Lorem Ipsum</a>\n
</nav>\n </header>\n</body>\n</html>
```