**Qdrant tutorial video:**

<https://www.youtube.com/watch?v=VL6MAAgwSDM&t=7s&ab_channel=AlejandroAO-Software%26Ai>

**Qdrant binary-quantization documentation:**

<https://qdrant.tech/articles/binary-quantization/>

**OpenAI Embeddings:**

<https://api.python.langchain.com/en/latest/embeddings/langchain_openai.embeddings.base.OpenAIEmbeddings.html>

<https://qdrant.tech/documentation/embeddings/openai/>

A screenshot of a computer

Description automatically generated

**ConversationalRetrievalChain documentation:**

<https://api.python.langchain.com/en/latest/chains/langchain.chains.conversational_retrieval.base.ConversationalRetrievalChain.html#langchain.chains.conversational_retrieval.base.ConversationalRetrievalChain>

<https://api.python.langchain.com/en/latest/_modules/langchain/chains/qa_with_sources/loading.html#load_qa_with_sources_chain>

**Qdrant documentation to access text-embeddings-3-large**

<https://qdrant.tech/documentation/embeddings/openai/>

Below is test documents processed:

12-page document of job descriptions

2-page resume

18 words split incorrectly

4347 words total

.41%

See: Test docs with word splits

**To fine tune examples later:**

A screenshot of a computer

Description automatically generated

**Template resources:**

FewShotPromptTemplate documentation:

<https://python.langchain.com/docs/modules/model_io/prompts/few_shot_examples_chat/>

create\_history\_aware\_retriever:

<https://api.python.langchain.com/en/latest/chains/langchain.chains.history_aware_retriever.create_history_aware_retriever.html>

**Chains:**

List of chains with links to documentation on LangChain

<https://python.langchain.com/docs/modules/chains/>

**Question at github about a similar setup with good examples:**

<https://github.com/langchain-ai/langchain/discussions/16002>

create\_stuff\_documents\_chain:

**create\_history\_aware\_retriever**: (llm, retriever, prompt)

**create\_stuff\_documents:** (llm, prompt)

**create\_retrieval\_chain:** (retriever(from create history aware), docs for context (from create stuff documents))

**Example with all the chains I used:**

**Quickstart example**

<https://python.langchain.com/docs/get_started/quickstart/>

LangChain Tutorial (Python) #5: Adding Chat History to Chatbot

<https://www.youtube.com/watch?v=KwA5DnRo_co&ab_channel=LeonvanZyl>

**Example Streamlit app with tab with instructions/background:**

<https://canadianvineyards.streamlit.app/>

<https://github.com/SpencerMartel/VineyardComparison/blob/main/app.py>