

CUSTOM TOOLS AND AGENTS IN LANGCHAIN

**READING
MULTIPLE
VECTORSTORES
IN LANGCHAIN**



[HTTPS://GITHUB.COM/INSIGHTBUILDER](https://github.com/insightbuilder)



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CHAINING VECTORSTORES

TWO WAYS TO DO THIS.. FINALLY AGENTEXECUTOR USED

WE WILL UNDERSTAND HOW TO SERIALISE THESE AGENTS

CUSTOM TOOL

- **CREATING RETRIVALQA TOOLS WITH THE
VECTOR STORES, AND USE THEM AS TOOLKIT.**

CUSTOM AGENT:

- **DIRECTLY CREATE VECTORSTORE AGENTS**

AND THEN USE IT AT CUSTOM AGENTS

BOTH REQUIRE VECTORSTORES

```
EMBEDDINGS = EMBEDDING_FUNCTION()
```

```
STORE1 = CHROMA.FROM_DOCUMENTS(TEXTS_1, EMBEDDINGS,  
COLLECTION_NAME="STORE1")
```

```
STORE2 = CHROMA.FROM_DOCUMENTS(TEXTS_2, EMBEDDINGS,  
COLLECTION_NAME="STORE2")
```

CUSTOM TOOL

```
STORE1 = RETRIEVALQA.FROM_CHAIN_TYPE(LLM=LLM, CHAIN_TYPE="STUFF",  
RETRIEVER=DOCSEARCH1.AS_RETRIEVER())
```

```
STORE2 = RETRIEVALQA.FROM_CHAIN_TYPE(LLM=LLM, CHAIN_TYPE="STUFF",  
RETRIEVER=DOCSEARCH2.AS_RETRIEVER())
```

```
TOOLS = [TOOL(NAME = "STORE1 QA SYSTEM",FUNC=STORE1.RUN,DESCRIPTION="USEFUL FOR WHEN YOU NEED  
TO ANSWER QUESTIONS ABOUT STORE1."),  
TOOL(NAME = "STORE2 QA SYSTEM",FUNC=STORE2.RUN,DESCRIPTION="USEFUL FOR WHEN YOU NEED TO  
ANSWER QUESTIONS STORE2."),]
```

```
AGENT = INITIALIZE_AGENT(TOOLS, LLM, AGENT="ZERO-SHOT-REACT-DESCRIPTION", VERBOSE=TRUE)  
AGENT.RUN("QUERY")
```

CUSTOM AGENT

```
STORE1_VECTORSTORE = VECTORSTOREINFO(NAME="STORE2_INFO",  
DESCRIPTION="INFORMATION ABOUT THE STORE1",VECTORSTORE=STORE1)
```

```
STORE2_VECTORSTORE = VECTORSTOREINFO(NAME="STORE2_INFO",  
DESCRIPTION="INFORMATION ABOUT THE STORE2",VECTORSTORE=STORE2)
```

```
ROUTER_TOOLKIT = VECTORSTOREROUTERTOOLKIT(VECTORSTORES=[STORE1_VECTORSTORE,  
STORE2_VECTORSTORE],LLM=LLM)
```

```
AGENT_EXECUTOR = CREATE_VECTORSTORE_AGENT(LLM=LLM,TOOLKIT=ROUTER_TOOLKIT,VERBOSE=TRUE)  
AGENT_EXECUTOR.RUN("QUERY")
```

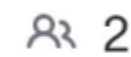
LETS HEAD TO COLAB

NOW WE ARE TALKING!!! PRACTICE

insightbuilder/
python_de_learners_data



Repo contains the code, data and supporting documents including presentations, playbooks and additional documents to support learning



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Contributors



0

Issues



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Fork



python_de_learners_data/multi_vectorstore_with_openai.ipynb at main · insightbuilder/python_de_learners_data

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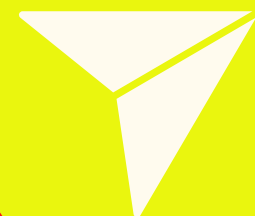


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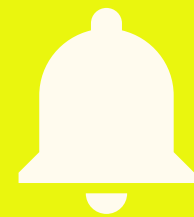
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