Redis

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This notebook shows how to use functionality related to the Redis database.

```python
from langchain.embeddings.openai import OpenAIEmbeddings
from langchain.text_splitter import CharacterTextSplitter
from langchain.vectorstores.redis import Redis
```

```python
from langchain.document_loaders import TextLoader
loader = TextLoader('../../../state_of_the_union.txt')
documents = loader.load()
text_splitter = CharacterTextSplitter(chunk_size=1000, chunk_overlap=0)
docs = text_splitter.split_documents(documents)

embeddings = OpenAIEmbeddings()
```

```python
rds = Redis.from_documents(docs, embeddings, redis_url="redis://localhost:6379",
index_name='link')
```

```python
rds.index_name
```

```
'link'
```

```python
query = "What did the president say about Ketanji Brown Jackson"
results = rds.similarity_search(query)
print(results[0].page_content)
```

Tonight. I call on the Senate to: Pass the Freedom to Vote Act. Pass the John

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Tonight, I'd like to honor someone who has dedicated his life to serve this country: Justice Stephen Breyer—an Army veteran, Constitutional scholar, and retiring Justice of the United States Supreme Court. Justice Breyer, thank you for your service.

One of the most serious constitutional responsibilities a President has is nominating someone to serve on the United States Supreme Court.

And I did that 4 days ago, when I nominated Circuit Court of Appeals Judge Ketanji Brown Jackson. One of our nation's top legal minds, who will continue Justice Breyer's legacy of excellence.

```
print(rds.add_texts(["Ankush went to Princeton"]))
```

```
['doc:333eadf75bd74be393acafa8bca48669']
```

```python
query = "Princeton"
results = rds.similarity_search(query)
print(results[0].page_content)
```

```
Ankush went to Princeton
```

```python
#Query
rds = Redis.from_existing_index(embeddings, redis_url="redis://localhost:6379", index_name='link')

query = "What did the president say about Ketanji Brown Jackson"
results = rds.similarity_search(query)
print(results[0].page_content)
```

RedisVectorStoreRetriever

Here we go over different options for using the vector store as a retriever.

There are three different search methods we can use to do retrieval. By default, it will use semantic similarity.

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```
docs = retriever.get_relevant_documents(query)
```

We can also use similarity_limit as a search method. This is only return documents if they are similar enough

```
retriever = rds.as_retriever(search_type="similarity_limit")
```

```
# Here we can see it doesn't return any results because there are no relevant
documents
retriever.get_relevant_documents("where did ankush go to college?")
```

```
[]
```