title
AWS S3 File | 🦜🔗 Langchain
Amazon Comprehend Moderation Chain | 🦜🔗 Langchain
AWS S3 Directory | 🦜🔗 Langchain
SageMaker | 🦜🔗 Langchain
Bedrock | 🦜🔗 Langchain
BedrockChat | 🦜🔗 Langchain
SageMakerEndpoint | 🦜🔗 Langchain
Streaming | 🦜🔗 Langchain
Quick Start | 🦜🔗 Langchain
Amazon API Gateway | 🦜🔗 Langchain
Bedrock | 🦜🔗 Langchain
Custom LLM | 🦜🔗 Langchain
Caching | 🦜🔗 Langchain
Tracking token usage | 🦜🔗 Langchain
Tracking token usage | 🦜🔗 Langchain
Caching | 🦜🔗 Langchain
Streaming | 🦜🔗 Langchain
Quick Start | 🦜🔗 Langchain
Time-weighted vector store retriever | 🦜🔗 Langchain
Contextual compression | 🦜🔗 Langchain
Long-Context Reorder | 🦜🔗 Langchain
CacheBackedEmbeddings | 🦜🔗 Langchain
Split by character | 🦜🔗 Langchain
Split by tokens | 🦜🔗 Langchain
Semantic Chunking | 🦜🔗 Langchain
Split code | 🦜🔗 Langchain
HTMLHeaderTextSplitter | 🦜🔗 Langchain
PDF | 🦜🔗 Langchain
JSON | 🦜🔗 Langchain
File Directory | 🦜🔗 Langchain
Markdown | 🦜🔗 Langchain
CSV | 🦜🔗 Langchain
HTML | 🦜🔗 Langchain
Neptune Open Cypher QA Chain | 🦜🔗 Langchain
GraphSparqlQAChain | 🦜🔗 Langchain
Memgraph QA chain | 🦜🔗 Langchain
NebulaGraphQAChain | 🦜🔗 Langchain
NetworkX | 🦜🔗 Langchain
Neo4j DB QA chain | 🦜🔗 Langchain
FalkorDBQAChain | 🦜🔗 Langchain
KuzuQAChain | 🦜🔗 Langchain
HugeGraph QA Chain | 🦜🔗 Langchain
ArangoDB QA chain | 🦜🔗 Langchain
Diffbot Graph Transformer | 🦜🔗 Langchain
Page Not Found | 🦜🔗 Langchain
Page Not Found | 🦜🔗 Langchain
Page Not Found | 🦜🔗 Langchain
Page Not Found | 🦜🔗 Langchain
Page Not Found | 🦜🔗 Langchain
OpenAI metadata tagger | 🦜🔗 Langchain
ChatAnthropic | 🦜🔗 Langchain

Chains | 🦜🔗 Langchain
Chains | 🦜🔗 Langchain
Anthropic Functions | 🦜🔗 Langchain
Chains | 🦜🔗 Langchain
Llama.cpp | 🦜🔗 Langchain
GPT4All | 🦜🔗 Langchain
JSONFormer | 🦜🔗 Langchain
Chat Messages | 🦜🔗 Langchain
MultiVector Retriever | 🦜🔗 Langchain
Text Splitters | 🦜🔗 Langchain
MultiQueryRetriever | 🦜🔗 Langchain
Chroma | 🦜🔗 Langchain
Vector store-backed retriever | 🦜🔗 Langchain
OpenAI | 🦜🔗 Langchain
Grobid | 🦜🔗 Langchain
Source Code | 🦜🔗 Langchain
MarkdownHeaderTextSplitter | 🦜🔗 Langchain
Recursively split by character | 🦜🔗 Langchain
WebBaseLoader | 🦜🔗 Langchain
CSV | 🦜🔗 Langchain
SQL Database | 🦜🔗 Langchain
Pandas Dataframe | 🦜🔗 Langchain
CSV | 🦜🔗 Langchain
Pandas DataFrame | 🦜🔗 Langchain
Token counting | 🦜🔗 Langchain
Tools as OpenAI Functions | 🦜🔗 Langchain
LangSmith Walkthrough | 🦜🔗 Langchain
OpenAI functions | 🦜🔗 Langchain
Timeouts for agents | 🦜🔗 Langchain
Access intermediate steps | 🦜🔗 Langchain
Cap the max number of iterations | 🦜🔗 Langchain
Handle parsing errors | 🦜🔗 Langchain
Running Agent as an Iterator | 🦜🔗 Langchain
Returning Structured Output | 🦜🔗 Langchain
Streaming | 🦜🔗 Langchain
Custom agent | 🦜🔗 Langchain
Tools | 🦜🔗 Langchain
Agent Types | 🦜🔗 Langchain
Quickstart | 🦜🔗 Langchain
Concepts | 🦜🔗 Langchain
YAML parser | 🦜🔗 Langchain
Ensemble Retriever | 🦜🔗 Langchain
Self-querying retriever | 🦜🔗 Langchain
Parent Document Retriever | 🦜🔗 Langchain
Indexing | 🦜🔗 Langchain
Output Parsers | 🦜🔗 Langchain
Quickstart | 🦜🔗 Langchain
Prompts | 🦜🔗 Langchain
Concepts | 🦜🔗 Langchain
[Beta] Memory | 🦜🔗 Langchain
Using tools | 🦜🔗 Langchain
Managing prompt size | 🦜🔗 Langchain

Adding moderation | 🦜 🔗 Langchain
Adding memory | 🦜 🔗 Langchain
Routing by semantic similarity | 🦜 🔗 Langchain
Code writing | 🦜 🔗 Langchain
Agents | 🦜 🔗 Langchain
Querying a SQL DB | 🦜 🔗 Langchain
Multiple chains | 🦜 🔗 Langchain
Prompt + LLM | 🦜 🔗 Langchain
RAG | 🦜 🔗 Langchain
Add message history (memory) | 🦜 🔗 Langchain
Inspect your runnables | 🦜 🔗 Langchain
Stream custom generator functions | 🦜 🔗 Langchain
Add fallbacks | 🦜 🔗 Langchain
Create a runnable with the `@chain` decorator | 🦜 🔗 Langchain
Configure chain internals at runtime | 🦜 🔗 Langchain
Bind runtime args | 🦜 🔗 Langchain
RunnableBranch: Dynamically route logic based on input | 🦜 🔗 Langchain
RunnableParallel: Manipulating data | 🦜 🔗 Langchain
RunnableLambda: Run Custom Functions | 🦜 🔗 Langchain
RunnablePassthrough: Passing data through | 🦜 🔗 Langchain
Faiss | 🦜 🔗 Langchain
Tavily Search API | 🦜 🔗 Langchain
xml-agent | 🦜 🔗 Langchain
vertexai-chuck-norris | 🦜 🔗 Langchain
summarize-anthropic | 🦜 🔗 Langchain
stepback-qa-prompting | 🦜 🔗 Langchain
sql-pgvector | 🦜 🔗 Langchain
sql-research-assistant | 🦜 🔗 Langchain
sql-ollama | 🦜 🔗 Langchain
sql-llamacpp | 🦜 🔗 Langchain
solo-performance-prompting-agent | 🦜 🔗 Langchain
sql-llama2 | 🦜 🔗 Langchain
Langchain - Robocorp Action Server | 🦜 🔗 Langchain
skeleton-of-thought | 🦜 🔗 Langchain
self-query-qdrant | 🦜 🔗 Langchain
self-query-supabase | 🦜 🔗 Langchain
retrieval-agent | 🦜 🔗 Langchain
rewrite_retrieve_read | 🦜 🔗 Langchain
research-assistant | 🦜 🔗 Langchain
rag-vectara | 🦜 🔗 Langchain
rag-vectara-multiquery | 🦜 🔗 Langchain
rag-weaviate | 🦜 🔗 Langchain
RAG with Timescale Vector using hybrid search | 🦜 🔗 Langchain
rag_supabase | 🦜 🔗 Langchain
rag-timescale-conversation | 🦜 🔗 Langchain
rag-self-query | 🦜 🔗 Langchain
rag-singlestoredb | 🦜 🔗 Langchain
rag-pinecone | 🦜 🔗 Langchain
rag-semi-structured | 🦜 🔗 Langchain
rag-pinecone-rerank | 🦜 🔗 Langchain
rag-redis | 🦜 🔗 Langchain
rag-pinecone-multi-query | 🦜 🔗 Langchain

rag-ollama-multi-query | 🦜 🔗 Langchain
rag-opensearch | 🦜 🔗 Langchain
rag-multi-modal-mv-local | 🦜 🔗 Langchain
rag-multi-modal-local | 🦜 🔗 Langchain
RAG with Multiple Indexes (Routing) | 🦜 🔗 Langchain
RAG with Multiple Indexes (Fusion) | 🦜 🔗 Langchain
rag-mongo | 🦜 🔗 Langchain
rag-matching-engine | 🦜 🔗 Langchain
rag-momento-vector-index | 🦜 🔗 Langchain
rag-gpt-crawler | 🦜 🔗 Langchain
rag-gemini-multi-modal | 🦜 🔗 Langchain
rag-google-cloud-sensitive-data-protection | 🦜 🔗 Langchain
rag-elasticsearch | 🦜 🔗 Langchain
rag-google-cloud-vertexai-search | 🦜 🔗 Langchain
rag-fusion | 🦜 🔗 Langchain
rag-conversation | 🦜 🔗 Langchain
rag-conversation-zep | 🦜 🔗 Langchain
rag-codellama-fireworks | 🦜 🔗 Langchain
rag-chroma | 🦜 🔗 Langchain
rag-chroma-private | 🦜 🔗 Langchain
rag-chroma-multi-modal | 🦜 🔗 Langchain
rag-chroma-multi-modal-multi-vector | 🦜 🔗 Langchain
rag-aws-kendra | 🦜 🔗 Langchain
rag-aws-bedrock | 🦜 🔗 Langchain
python-lint | 🦜 🔗 Langchain
rag-astradb | 🦜 🔗 Langchain
openai-functions-tool-retrieval-agent | 🦜 🔗 Langchain
pirate-speak | 🦜 🔗 Langchain
pirate-speak-configurable | 🦜 🔗 Langchain
plate-chain | 🦜 🔗 Langchain
propositional-retrieval | 🦜 🔗 Langchain
pii-protected-chatbot | 🦜 🔗 Langchain
openai-functions-agent | 🦜 🔗 Langchain
OpenAI Functions Agent - Gmail | 🦜 🔗 Langchain
nvidia-rag-canonical | 🦜 🔗 Langchain
neo4j-generation | 🦜 🔗 Langchain
neo4j-parent | 🦜 🔗 Langchain
neo4j-semantic-layer | 🦜 🔗 Langchain
neo4j-vector-memory | 🦜 🔗 Langchain
neo4j_cypher | 🦜 🔗 Langchain
neo4j-cypher-memory | 🦜 🔗 Langchain
neo4j-advanced-rag | 🦜 🔗 Langchain
neo4j-cypher-ft | 🦜 🔗 Langchain
mongo-parent-document-retrieval | 🦜 🔗 Langchain
llama2-functions | 🦜 🔗 Langchain
hyde | 🦜 🔗 Langchain
Hybrid Search in Weaviate | 🦜 🔗 Langchain
guardrails-output-parser | 🦜 🔗 Langchain
extraction-openai-functions | 🦜 🔗 Langchain
elastic-query-generator | 🦜 🔗 Langchain
extraction-anthropic-functions | 🦜 🔗 Langchain
csv-agent | 🦜 🔗 Langchain

cohere-librarian | 🦜🔗 Langchain
Chat Bot Feedback Template | 🦜🔗 Langchain
cassandra-synonym-caching | 🦜🔗 Langchain
Chain-of-Note (Wikipedia) | 🦜🔗 Langchain
cassandra-entomology-rag | 🦜🔗 Langchain
Bedrock JCVD 🤸‍♂️🥋 | 🦜🔗 Langchain
basic-critique-revise | 🦜🔗 Langchain
anthropic-iterative-search | 🦜🔗 Langchain
Contribute Code | 🦜🔗 Langchain
Contribute Integrations | 🦜🔗 Langchain
Frequently Asked Questions | 🦜🔗 Langchain
Testing | 🦜🔗 Langchain
Contribute Documentation | 🦜🔗 Langchain
langchain | 🦜🔗 Langchain
Callbacks | 🦜🔗 Langchain
Logging to file | 🦜🔗 Langchain
langchain-core | 🦜🔗 Langchain
WandB Tracing | 🦜🔗 Langchain
Safety | 🦜🔗 Langchain
Model comparison | 🦜🔗 Langchain
Pydantic compatibility | 🦜🔗 Langchain
Run LLMs locally | 🦜🔗 Langchain
Fallbacks | 🦜🔗 Langchain
Activeloop Deep Lake | 🦜🔗 Langchain
Evaluation | 🦜🔗 Langchain
Deployment | 🦜🔗 Langchain
Stores | 🦜🔗 Langchain
Adapters | 🦜🔗 Langchain
Chat loaders | 🦜🔗 Langchain
Callbacks | 🦜🔗 Langchain
Memory | 🦜🔗 Langchain
Tools | 🦜🔗 Langchain
Agents and toolkits | 🦜🔗 Langchain
Retrievers | 🦜🔗 Langchain
Vector stores | 🦜🔗 Langchain
Text embedding models | 🦜🔗 Langchain
Document loaders | 🦜🔗 Langchain
Document transformers | 🦜🔗 Langchain
Chat models | 🦜🔗 Langchain
LLMs | 🦜🔗 Langchain
Microsoft | 🦜🔗 Langchain
Components | 🦜🔗 Langchain
OpenAI | 🦜🔗 Langchain
Hugging Face | 🦜🔗 Langchain
Google | 🦜🔗 Langchain
AWS | 🦜🔗 Langchain
Anthropic | 🦜🔗 Langchain
LLMs | 🦜🔗 Langchain
Chat Models | 🦜🔗 Langchain
Retrievers | 🦜🔗 Langchain
Vector stores | 🦜🔗 Langchain
Text embedding models | 🦜🔗 Langchain

Text Splitters | 🦜🔗 Langchain
Document loaders | 🦜🔗 Langchain
Synthetic data generation | 🦜🔗 Langchain
Graph querying | 🦜🔗 Langchain
Code understanding | 🦜🔗 Langchain
Web scraping | 🦜🔗 Langchain
Tagging | 🦜🔗 Langchain
Summarization | 🦜🔗 Langchain
Extraction | 🦜🔗 Langchain
Interacting with APIs | 🦜🔗 Langchain
Using local models | 🦜🔗 Langchain
Using agents | 🦜🔗 Langchain
Streaming | 🦜🔗 Langchain
Per-User Retrieval | 🦜🔗 Langchain
Add chat history | 🦜🔗 Langchain
Quickstart | 🦜🔗 Langchain
Returning sources | 🦜🔗 Langchain
Welcome Contributors | 🦜🔗 Langchain
SQL | 🦜🔗 Langchain
Chatbots | 🦜🔗 Langchain
🦜🕸️ LangGraph | 🦜🔗 Langchain
Q&A with RAG | 🦜🔗 Langchain
🦜💬 LangServe | 🦜🔗 Langchain
LangSmith | 🦜🔗 Langchain
Chains | 🦜🔗 Langchain
Agents | 🦜🔗 Langchain
Retrieval | 🦜🔗 Langchain
Model I/O | 🦜🔗 Langchain
Modules | 🦜🔗 Langchain
Cookbook | 🦜🔗 Langchain
Why use LCEL | 🦜🔗 Langchain
How to | 🦜🔗 Langchain
Interface | 🦜🔗 Langchain
Get started | 🦜🔗 Langchain
LangChain Expression Language (LCEL) | 🦜🔗 Langchain
Security | 🦜🔗 Langchain
Quickstart | 🦜🔗 Langchain
Installation | 🦜🔗 Langchain
Get started | 🦜🔗 Langchain
YouTube videos | 🦜🔗 Langchain
Tutorials | 🦜🔗 Langchain
Templates | 🦜🔗 Langchain
Welcome Contributors | 🦜🔗 Langchain
Changelog | 🦜🔗 Langchain
📖 Package Versioning | 🦜🔗 Langchain
Debugging | 🦜🔗 Langchain
Providers | 🦜🔗 Langchain
Q&A with RAG | 🦜🔗 Langchain
Introduction | 🦜🔗 Langchain
Introduction | 🦜🔗 Langchain

url
https://python.langchain.com/docs/integrations/document_loaders/aws_s3_file
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https://python.langchain.com/docs/integrations/text_embedding/bedrock
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https://python.langchain.com/docs/modules/model_io/chat/token_usage_tracking
https://python.langchain.com/docs/modules/model_io/chat/chat_model_caching
https://python.langchain.com/docs/modules/model_io/chat/streaming
https://python.langchain.com/docs/modules/model_io/chat/quick_start
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https://python.langchain.com/docs/modules/data_connection/document_loaders/pdf
https://python.langchain.com/docs/modules/data_connection/document_loaders/json
https://python.langchain.com/docs/modules/data_connection/document_loaders/file_directory
https://python.langchain.com/docs/modules/data_connection/document_loaders/markdown
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https://python.langchain.com/docs/integrations/llms/llamacpp
https://python.langchain.com/docs/integrations/llms/gpt4all
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https://python.langchain.com/docs/modules/memory/chat_messages/
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https://python.langchain.com/docs/modules/data_connection/retrievers/vectorstore
https://python.langchain.com/docs/integrations/text_embedding/openai
https://python.langchain.com/docs/integrations/document_loaders/grobid
https://python.langchain.com/docs/integrations/document_loaders/source_code
https://python.langchain.com/docs/modules/data_connection/document_transformers/markdown_header_metadata
https://python.langchain.com/docs/modules/data_connection/document_transformers/recursive_text_splitter
https://python.langchain.com/docs/integrations/document_loaders/web_base
https://python.langchain.com/docs/integrations/toolkits/csv
https://python.langchain.com/docs/integrations/toolkits/sql_database
https://python.langchain.com/docs/integrations/toolkits/pandas
https://python.langchain.com/docs/integrations/document_loaders/csv
https://python.langchain.com/docs/integrations/document_loaders/pandas_dataframe
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https://python.langchain.com/docs/modules/agents/agent_types/openai_functions_agent
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https://python.langchain.com/docs/modules/agents/how_to/intermediate_steps
https://python.langchain.com/docs/modules/agents/how_to/max_iterations
https://python.langchain.com/docs/modules/agents/how_to/handle_parsing_errors
https://python.langchain.com/docs/modules/agents/how_to/agent_iter
https://python.langchain.com/docs/modules/agents/how_to/agent_structured
https://python.langchain.com/docs/modules/agents/how_to/streaming
https://python.langchain.com/docs/modules/agents/how_to/custom_agent
https://python.langchain.com/docs/modules/agents/tools/
https://python.langchain.com/docs/modules/agents/agent_types/
https://python.langchain.com/docs/modules/agents/quick_start
https://python.langchain.com/docs/modules/agents/concepts
https://python.langchain.com/docs/modules/model_io/output_parsers/types/yaml
https://python.langchain.com/docs/modules/data_connection/retrievers/ensemble
https://python.langchain.com/docs/integrations/retrievers/self_query/
https://python.langchain.com/docs/modules/data_connection/retrievers/parent_document_retriever
https://python.langchain.com/docs/modules/data_connection/indexing
https://python.langchain.com/docs/modules/model_io/output_parsers/
https://python.langchain.com/docs/modules/model_io/quick_start
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https://python.langchain.com/docs/modules/model_io/concepts
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https://python.langchain.com/docs/expression_language/cookbook/agent
https://python.langchain.com/docs/expression_language/cookbook/sql_db
https://python.langchain.com/docs/expression_language/cookbook/multiple_chains
https://python.langchain.com/docs/expression_language/cookbook/prompt_llm_parser
https://python.langchain.com/docs/expression_language/cookbook/retrieval
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https://python.langchain.com/docs/expression_language/how_to/generators
https://python.langchain.com/docs/expression_language/how_to/fallbacks
https://python.langchain.com/docs/expression_language/how_to/decorator
https://python.langchain.com/docs/expression_language/how_to/configure
https://python.langchain.com/docs/expression_language/how_to/binding
https://python.langchain.com/docs/expression_language/how_to/routing
https://python.langchain.com/docs/expression_language/how_to/map
https://python.langchain.com/docs/expression_language/how_to/functions
https://python.langchain.com/docs/expression_language/how_to/passthrough
https://python.langchain.com/docs/integrations/vectorstores/faiss
https://python.langchain.com/docs/integrations/retrievers/tavily
https://python.langchain.com/docs/templates/xml-agent
https://python.langchain.com/docs/templates/vertexai-chuck-norris
https://python.langchain.com/docs/templates/summarize-anthropic
https://python.langchain.com/docs/templates/stepback-qa-prompting
https://python.langchain.com/docs/templates/sql-pgvector
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https://python.langchain.com/docs/templates/sql-ollama
https://python.langchain.com/docs/templates/sql-llamacpp
https://python.langchain.com/docs/templates/solo-performance-prompting-agent
https://python.langchain.com/docs/templates/sql-llama2
https://python.langchain.com/docs/templates/robocorp-action-server
https://python.langchain.com/docs/templates/skeleton-of-thought
https://python.langchain.com/docs/templates/self-query-qdrant
https://python.langchain.com/docs/templates/self-query-supabase
https://python.langchain.com/docs/templates/retrieval-agent
https://python.langchain.com/docs/templates/rewrite-retrieve-read
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roduction to LangChain with Harrison Chase, creator of LangChainBuilding the Future with LLMs, Lang(

.angChain, check out the use cases guides.▩ icon marks a new addition [last update 2023-09-21]Lang(

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lease do not try to push directly to this repo unless you are a maintainer.Please follow the checked-in pu
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a pull request, there may be additional changes necessary before merging it. Oftentimes, it is more effic
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ationLogical Fallacy chainModeration chainSafetySafetyOne of the key concerns with using LLMs is tha
ed choosing between many different options of prompts, models, and even chains to use. When doing s
dantic.dev/2.0/blog/pydantic-v2-final/)v2 contains has a number of breaking changes (https://docs.pyda
nd GPT4All underscore the demand to run LLMs locally (on your own device).This has at least two impo
underlying APIs, whether these be rate limiting or downtime. Therefore, as you go to move your LLM ap
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ng applications with language models involves many moving parts. One of the most critical components
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aphModulesAgentsToolsToolsTools are interfaces that an agent can use to interact with the world. The

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d the agent framework, let’s build an agent that has two tools: one to look things up online, and one to l

ents is to use a language model to choose a sequence of actions to take. In chains, a sequence of actio

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trievalIndexingIndexingHere, we will look at a basic indexing workflow using the LangChain indexing AP

tput ParsersOutput ParsersOutput parsers are responsible for taking the output of an LLM and transfor

rtThe quick start will cover the basics of working with language models. It will introduce the two different

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The core element of any language model application is...the model. LangChain gives you the building b

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e, suppose you need the model output formatted with a specific schema for:Extracting a structured row t
APIs.This can be very useful for retrieving context for the LLM to utilize.And, more generally, it allows us
RAGUsing local modelsUsing local modelsThe popularity of projects like PrivateGPT, llama.cpp, and GP
RAGUsing agentsUsing agentsThis is an agent specifically optimized for doing retrieval when necessary
RAGStreamingStreamingOften in Q&A applications it’s important to show users the sources that were us
RAGPer-User RetrievalPer-User RetrievalWhen building a retrieval app, you often have to build it with m
RAGAdd chat historyAdd chat historyIn many Q&A applications we want to allow the user to have a back
RAGQuickstartQuickstartLangChain has a number of components designed to help build question-answ
RAGReturning sourcesReturning sourcesOften in Q&A applications it’s important to show users the sour
whether they involve new features, improved infrastructure, better documentation, or bug fixes. Gu
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RAGQ&A with RAGOverviewOne of the most powerful applications enabled by LLMs is sophisticated qu
ck deployments of LangChain applications. Sign up here to get on the waitlist.OverviewLangServe helps
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processing step. The primary supported way to do this is with LCEL.LCEL is great for constructing your c
se a language model to choose a sequence of actions to take. In chains, a sequence of actions is hardco
etrievalRetrievalMany LLM applications require user-specific data that is not part of the model's training s
element of any language model application is...the model. LangChain gives you the building blocks to in
the following main modules:Model I/OInterface with language modelsRetrievalInterface with application-s
esModel I/ORetrievalAgentsChainsMoreLangServeLangSmithLangGraphLangChain Expression Langua
Get started section first.LCEL makes it easy to build complex chains from basic components. It does this
time argsConfigure chain internals at runtimeCreate a runnable with the `@chain` decoratorAdd fallback
chains, we’ve implemented a “Runnable” protocol. The Runnable protocol is implemented for most com
s from basic components, and supports out of the box functionality such as streaming, parallelism, and l
Language, or LCEL, is a declarative way to easily compose chains together. LCEL was designed from da
esources like local and remote file systems, APIs and databases. These integrations allow developers to
LangSmith and LangServeUse the most basic and common components of LangChain: prompt template
hainThis will install the bare minimum requirements of LangChain. A lot of the value of LangChain comes
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whether they involve new features, improved infrastructure, better documentation, or bug fixes. Gu

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equests cannot land without passing the formatting, linting, and testing checks first. See Testing and For
ource Community.Partner Packages: For independent packages that are co-maintained by LangChain ar
do so in code review.By default, most pull requests will have a ✅ Maintainers are allowed to edit this pu
al services.Unit TestsUnit tests cover modular logic that does not require calls to outside APIs. If you adc
umentation to all classes and methods.Similar to linting, we recognize documentation can be annoying.
unnableUse LCEL under the hoodNatBotChainNot usedcreate_openai_fn_chaincreate_openai_fn_runna
ations for documentation on built-in callbacks integrations with 3rd-party tools.LangChain provides a callb
his example shows how to print logs to file. It shows how to use the FileCallbackHandler, which does the
ct, predict_messages. Will be removed in 0.2.0. Use BaseLLM.invoke` instead.BaseLLM methods apred
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esent some built-in chains inspired by this research, which are intended to make the outputs of LLMs sa
way.LangChain provides the concept of a ModelLaboratory to test out and try different models.%pip insta
be installed at the same timeLangChain Pydantic migration planAs of langchain>=0.0.267, LangChain w
of a commercial serviceCost: There is no inference fee, which is important for token-intensive applicatio
we've introduced the concept of fallbacks.A fallback is an alternative plan that may be used in an emerge
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inputs, and that they work well with your application's other software components. Ensuring reliability us
into two categories:Case 1: Utilizing External LLM Providers (OpenAI, Anthropic, etc.) In this scenario, r
ul. In this section, we will look at a few different ways to store key-value pairs using implementations of th
to📄 OpenAI AdapterPlease ensure OpenAI library is version 1.0.0 or higher; otherwise,PreviousWh
it loadersChat loaders📄 DiscordThis notebook shows how to create your own chat loader that works
open-source data curation📄 ConfidentDeepEval package for unit testing LLMs.📄 ContextContex
aZepCallbacksChat loadersAdaptersStoresComponentsMemoryMemory📄 Astra DBDataStax [Astra
echFile SystemGolden QueryGoogle Cloud Text-to-SpeechGoogle DriveGoogle FinanceGoogle JobsGo
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ncorporated and its for-profit subsidiary corporation OpenAI Limited Partnership. OpenAI conducts AI res
er 350k models, 75k datasets, and 150k demo apps (Spaces), all open source and publicly available, in a
ch as gemini-pro and gemini-pro-vision through the ChatGoogleGenerativeAI class.pip install -U langcha
of high-performing foundation models (FMs) from leading AI companies like AI21 Labs, Anthropic, Cohe
e covers all integrations between Anthropic models and LangChain.Prompting OverviewClaude is chat-b
nponent of LangChain. LangChain does not serve its own LLMs, but rather provides a standard interface
ain. LangChain does not serve its own ChatModels, but rather provides a standard interface for interacti
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Use casesGraph queryingGraph queryingGraph databases give us a powerful way to represent and que
Q&A over the code base to understand how it worksUsing LLMs for suggesting refactors or improvement
verviewGathering content from the web has a few components:Search: Query to url (e.g., using GoogleS
nction: Like extraction, tagging uses functions to specify how the model should tag a documentschema:
ir proficiency in understanding and synthesizing text.In this walkthrough we'll go over how to perform do
o insert into a databaseExtracting API parametersExtracting different parts of a user query (e.g., for sem
s to interact with APIs using natural language!OverviewThere are two primary ways to interface LLMs wi
PT4All underscore the importance of running LLMs locally.LangChain has integrations with many open-s
and also holding a conversation.To start, we will set up the retriever we want to use, and then turn it int
sed to generate the answer. The simplest way to do this is for the chain to return the Documents that we
ıultiple users in mind. This means that you may be storing data not just for one user, but for many differe
k-and-forth conversation, meaning the application needs some sort of "memory" of past questions and a
ering applications, and RAG applications more generally. To familiarize ourselves with these, we'll build
rces that were used to generate the answer. The simplest way to do this is for the chain to return the Do
uidelines👩‍💻 Ways to contributeThere are many ways to contribute to LangChain. Here are some com
s and Agents to build and run SQL queries based on natural language prompts.These are compatible wi
o know about.Aside from basic prompting and LLMs, memory and retrieval are the core components of
with) LangChain. It extends the LangChain Expression Language with the ability to coordinate multiple c
uestion-answering (Q&A) chatbots. These are applications that can answer questions about specific sou
s developers deploy LangChain runnables and chains as a REST API.This library is integrated with Fast
ıe interactive walkthrough to get started.For more information, please refer to the LangSmith documenta
own chains, but it's also nice to have chains that you can use off-the-shelf. There are two types of off-the
oded (in code). In agents, a language model is used as a reasoning engine to determine which actions to
set. The primary way of accomplishing this is through Retrieval Augmented Generation (RAG). In this pro
ıterface with any language model.Conceptual GuideA conceptual explanation of messages, prompts, LL
specific dataAgentsLet chains choose which tools to use given high-level directivesAdditionalChainsCor
ageCookbookCookbookExample code for accomplishing common tasks with the LangChain Expression
s by providing: 1. A unified interface: Every LCEL object implements the Runnable interface, which defin
ksStream custom generator functionsInspect your runnablesAdd message history (memory)CookbookM
nponents. This is a standard interface, which makes it easy to define custom chains as well as invoke th
logging.Basic example: prompt + model + output parserThe most basic and common use case is chainir
ay 1 to support putting prototypes in production, with no code changes, from the simplest "prompt + LLM
o create versatile applications that combine the power of LLMs with the ability to access, interact with ar
es, models, and output parsersUse LangChain Expression Language, the protocol that LangChain is buil
s when integrating it with various model providers, datastores, etc. By default, the dependencies needed
ial release📄 QuickstartIn this quickstart we'll show you how to:📄 SecurityLangChain has a large
Stack Deep LearningLangChain Agents: Build Personal Assistants For Your Data (Q&A with Harrison C
ntLangChain Chat with Your Data🕸 Functions, Tools and Agents with LangChainHandbookLangChain A
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uidelines👩‍💻 Ways to contributeThere are many ways to contribute to LangChain. Here are some com

vance notice and version bumps. The exception for this is anything marked with the beta decorator (you
different tools and functionalities to aid in debugging.TracingPlatforms with tracing capabilities like LangS
oogleAll functionality related to Google Cloud Platform and other Google products.📄 Hugging FaceA
uestion-answering (Q&A) chatbots. These are applications that can answer questions about specific sou
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m, astream. This gives all LLMs basic support for streaming.Streaming support defaults to returning an It
standard interface for interacting with many different LLMs.There are lots of LLM providers (OpenAI, Coh
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one that is supported in LangChain.There are only two required things that a custom LLM needs to impl
PI calls you make to the LLM provider, if you're often requesting the same completion multiple times. It ca
OpenAI API.Let's first look at an extremely simple example of tracking token usage for a single LLM call.
AI API.Let's first look at an extremely simple example of tracking token usage for a single Chat model ca
PI calls you make to the LLM provider, if you're often requesting the same completion multiple times. It c
m, astream. This gives all ChatModels basic support for streaming.Streaming support defaults to returni
fferent. Rather than using a "text in, text out" API, they use an interface where "chat messages" are the i
dulesRetrievalRetrieversTime-weighted vector store retrieverTime-weighted vector store retrieverThis ret
dulesRetrievalRetrieversContextual compressionContextual compressionOne challenge with retrieval is t
dulesRetrievalRetrieversLong-Context ReorderLong-Context ReorderNo matter the architecture of your m
ompute them.Caching embeddings can be done using a CacheBackedEmbeddings. The cache backed
the simplest method. This splits based on characters (by default "") and measure chunk length by numb
odels have a token limit. You should not exceed the token limit. When you split your text into chunks it is
plits the text based on semantic similarity.Taken from Greg Kamradt's wonderful notebook: https://github
ws you to split your code with multiple languages supported. Import enum Language and specify the lang
xtSplitterDescription and motivationSimilar in concept to the`MarkdownHeaderTextSplitter`, the `HTMLH
ts, including text formatting and images, in a manner independent of application software, hardware, and
xt to store and transmit data objects consisting of attribute–value pairs and arrays (or other serializable v
der.from langchain_community.document_loaders import DirectoryLoaderWe can use the glob paramete
oad Markdown documents into a document format that we can use downstream.# !pip install unstructured
a record. Each record consists of one or more fields, separated by commas.Load CSV data with a single
eb browser.This covers how to load HTML documents into a document format that we can use downstre
ain queries Neptune graph database using openCypher and returns human readable responsefrom lang
t choice for applications based on network-like models. To standardize the syntax and semantics of such
Ms to provide a natural language interface to a Memgraph database. To complete this tutorial, you will n
e LLMs to provide a natural language interface to NebulaGraph database.You will need to have a running
on, and study of the structure, dynamics, and functions of complex networks.This notebook goes over h
s to provide a natural language interface to a graph database you can query with the Cypher query langu
o provide a natural language interface to FalkorDB database.FalkorDB is a low latency property graph d
e a natural language interface to Kùzu database.Kùzu is an in-process property graph database manage
LLMs to provide a natural language interface to HugeGraph database.You will need to have a running H
now to use LLMs to provide a natural language interface to an ArangoDB database.You can get a local A
Text data often contain rich relationships and insights that can be useful for various analytics, recommen

etadata taggerIt can often be useful to tag ingested documents with structured metadata, such as the titl
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Head to Integrations for documentation on built-in memory integrations with 3rd-party databases and toc
dulesRetrievalRetrieversMultiVector RetrieverMultiVector RetrieverIt can often be beneficial to store mult
nts, you'll often want to transform them to better suit your application. The simplest example is you may
dulesRetrievalRetrieversMultiQueryRetrieverMultiQueryRetrieverDistance-based vector database retriev
ssFaiss (Async)Google Vertex AI Vector SearchHippoHologresJaguar Vector DatabaseLanceDBLanterr
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Azure AI Document IntelligenceBibTeXBiliBiliBlackboardBlockchainBrave SearchBrowserlessChatGPT D
eaderTextSplitterMotivationMany chat or Q+A applications involve chunking input documents prior to em
split by characterThis text splitter is the recommended one for generic text. It is parameterized by a list c
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backs import get_openai_callbackfrom langchain_openai import OpenAIllm = OpenAI(temperature=0)wi
langchain_openai import ChatOpenAImodel = ChatOpenAI(model="gpt-3.5-turbo-0613")from langchain
components to build a high-quality product.LangSmith makes it easy to debug, test, and continuously im
when a function should be called and respond with the inputs that should be passed to the function. In a
walks through how to cap an agent executor after a certain amount of time. This can be useful for safeg
order to get more visibility into what an agent is doing, we can also return intermediate steps. This com
of iterationsThis notebook walks through how to cap an agent at taking a certain number of steps. This
lly the LLM cannot determine what step to take because its outputs are not correctly formatted to be han
atorIt can be useful to run the agent as an interator, to add human-in-the-loop checks as needed.To dem
putThis notebook covers how to have an agent return a structured output. By default, most of the agents
sideration for LLM apps, and agents are no exception. Streaming with agents is made more complicated
gh how to create your own custom agent.In this example, we will use OpenAI Function Calling to create t
nputs to the tool areThe function to callWhether the result of a tool should be returned directly to the use
or Chat Models (takes in messages, outputs message) or LLMs (takes in string, outputs string). The mai
if you haven’t already explored those sections, it is recommended you do so.Setup: LangSmithBy defin
ich actions to take and in which order.There are several key components here:SchemaLangChain has s
rsTypesYAML parserYAML parserThis output parser allows users to specify an arbitrary schema and qu
dulesRetrievalRetrieversEnsemble RetrieverEnsemble RetrieverThe EnsembleRetriever takes a list of re
(Merger Retriever)MetalOutlinePinecone Hybrid SearchPubMedQdrant Sparse Vector RetrieverRAGato
dulesRetrievalRetrieversParent Document RetrieverParent Document RetrieverWhen splitting document
cifically, it helps:Avoid writing duplicated content into the vector storeAvoid re-writing unchanged content
tructured data.Besides having a large collection of different types of output parsers, one distinguishing b
nputs to these models, and how to use Output Parsers to work with the outputs. For a deeper conceptua
for a language model is a set of instructions or input provided by a user to guide the model's response, h
with models. This largely involves a clear interface for what a model is, helper utils for constructing inputs
have a conversational interface. An essential component of a conversation is being able to refer to infor
--quiet langchain langchain-openai duckduckgo-searchfrom langchain.tools import DuckDuckGoSearc
hose tool calls are added back to the prompt, so that the agent can plan the next action. Depending on w

uards) around your LLM application.%pip install --upgrade --quiet langchain langchain-openaifrom lan
t now, you can use the memory classes but need to hook it up manually%pip install --upgrade --quiet la
custom routing logic to your chain to dynamically determine the chain logic based on user input. All you
upgrade --quiet langchain-core langchain-experimental langchain-openaifrom langchain_core.output_pa
chain.agents import AgentExecutor, toolfrom langchain.agents.output_parsers import XMLAgentOutput
nnables.%pip install –upgrade –quiet langchain langchain-openaifrom langchain_core.prompts import C
ains%pip install –upgrade –quiet langchain langchain-openaifrom operator import itemgetterfrom langch
tTemplate / ChatPromptTemplate -> LLM / ChatModel -> OutputParserAlmost any other chains you buil
retrieval-augmented generation” chain%pip install --upgrade --quiet langchain langchain-openai faiss-c
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rmatting and Linting for how to run these checks locally.It's essential that we maintain great documentati
nd a partner.For the most part, new integrations should be added to the Community package. Partner pa
ll request. badge in the right-hand sidebar.If you do not see this badge, you may have this setting off fo
new logic, please add a unit test.To install dependencies for unit tests:poetry install --with testTo run u
If you do not want to do it, please contact a project maintainer, and they can help you with it. We do not
ableUse LCEL under the hoodcreate_structured_output_chaincreate_structured_output_runnableUse L
backs system that allows you to hook into the various stages of your LLM application. This is useful for
same thing as StdOutCallbackHandler, but instead writes the output to file. It also uses the loguru libra
lict, apredict_messages. Will be removed in 0.2.0. Use BaseLLM.ainvoke instead.FixedRestrict recursive
TracingDatadog LogsDataForSEODeepInfraDeepSparseDiffbotDingoDBDiscordDocArrayDoctranDocu
fer.Amazon Comprehend moderation chain: Use Amazon Comprehend to detect and handle Personally
ll --upgrade --quiet langchain langchain-openaifrom langchain.model_laboratory import ModelLaborato
will allow users to install either Pydantic V1 or V2.Internally LangChain will continue to use V1.During thi
ns (e.g., long-running simulations, summarization)OverviewRunning an LLM locally requires a few thing
ency.Crucially, fallbacks can be applied not only on the LLM level but on the whole runnable level. This i
TracingDatadog LogsDataForSEODeepInfraDeepSparseDiffbotDingoDBDiscordDocArrayDoctranDocu
sually boils down to some combination of application design, testing & evaluation, and runtime checks.T
most of the computational burden is handled by the LLM providers, while LangChain simplifies the imple
he ByteStore interface.Features (natively supported)All ByteStores support the following functions, whic
atsAppNextOpenAI Adapter(Old)CommunityDiscordTwitterGitHubPythonJS/TSMoreHomepageBlogCop
on📄 Facebook MessengerThis notebook shows how to load data from Facebook in a format you c
t provides user analytics for LLM-powered📄 InfinoInfino is a scalable telemetry📄 Label StudioL
📄 AWS DynamoDB[Amazon AWS📄 CassandraApache Cassandra® is a NoSQL,📄 Elastics
oogle LensGoogle PlacesGoogle ScholarGoogle SearchGoogle SerperGoogle TrendsGradioGraphQLH
aseSteam Game Recommendation & Game DetailsXorbitsMemoryCallbacksChat loadersAdaptersStor
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sFaiss (Async)Google Vertex AI Vector SearchHippoHologresJaguar Vector DatabaseLanceDBLanter
aceJinaJohn Snow LabsLlama-cppLLMRailsLocalAIMiniMaxModelScopeMosaicMLNLP CloudNVIDIA
zure AI Document IntelligenceBibTeXBiliBiliBlackboardBlockchainBrave SearchBrowserlessChatGPT
tiful SoupBeautiful Soup is a📄 Google Cloud Document AIDocument AI is a document understandin
enAITencent HunyuanTongyi QwenvLLM ChatVolc Enging MaasYandexGPTZHIPU AIDocument load
n InferenceJavelin AI Gateway TutorialJSONFormerKoboldAI APILlama.cppLLM Caching integrationsL
pment of applications and services through global data centers. It provides a range of capabilities, inclu
📦 Agents and toolkits28 items📦 Memory19 items📦 Callbacks10 items📦 Chat loaders11
search with the declared intention of promoting and developing a friendly AI. OpenAI systems run on an
an online platform where people can easily collaborate and build ML together. The Hub works as a cent
in-google-genaiConfigure your API key.export GOOGLE_API_KEY=your-api-keyfrom langchain_googl
re, Meta, Stability AI, and Amazon via a single API, along with a broad set of capabilities you need to bu
ased model, meaning it is trained on conversation data. However, it is a text based API, meaning it take
for interacting with many different LLMs. To be specific, this interface is one that takes as input a string
ing with many different models. To be specific, this interface is one that takes as input a list of message
ulesRetrievalRetrieversRetrieversA retriever is an interface that returns documents given an unstructur
o embed it and store the resulting embedding vectors, and then at query time to embed the unstructure
ass is a class designed for interfacing with text embedding models. There are lots of embedding model

ents, you'll often want to transform them to better suit your application. The simplest example is you may
nt loaders to load data from a source as Document's. A Document is a piece of text and associated meta
personal data at risk of breaches.Data Augmentation: Expands datasets for machine learning.Flexibility:
ery real-world relationships. There are a number of chains that make it easy to use LLMs to interact with
tsUsing LLMs for documenting the codeOverviewThe pipeline for QA over code follows the steps we do
SearchAPIWrapper).Loading: Url to HTML (e.g., using AsyncHtmlLoader, AsyncChromiumLoader, etc).
defines how we want to tag the documentQuickstartLet's see a very straightforward example of how we
ocument summarization using LLMs.OverviewA central question for building a summarizer is how to pas
mantic vs keyword search)OverviewThere are two primary approaches for this:Functions: Some LLMs ca
ith external APIs:Functions: For example, OpenAI functions is one popular means of doing this.LLM-gen
ource LLMs that can be run locally.See here for setup instructions for these LLMs.For example, here we
to a retriever tool. Next, we will use the high level constructor for this type of agent. Finally, we will walk t
ere retrieved in each generation.We'll work off of the Q&A app with sources we built over the LLM Power
ent users, and they should not be able to see eachother's data. This means that you need to be able to c
nswers, and some logic for incorporating those into its current thinking.In this guide we focus on adding
a simple Q&A application over a text data source. Along the way we'll go over a typical Q&A architectur
ocuments that were retrieved in each generation.We'll work off of the Q&A app we built over the LLM Pow
mmon ways people contribute:Documentation: Help improve our docs, including this one!Code: Help us w
ith any SQL dialect supported by SQLAlchemy (e.g., MySQL, PostgreSQL, Oracle SQL, Databricks, SQ
a chatbot. Memory allows a chatbot to remember past interactions, and retrieval provides a chatbot with
chains (or actors) across multiple steps of computation in a cyclic manner. It is inspired by Pregel and Ap
rce information. These applications use a technique known as Retrieval Augmented Generation, or RAG
tAPI and uses pydantic for data validation.In addition, it provides a client that can be used to call into run
ation.For tutorials and other end-to-end examples demonstrating ways to integrate LangSmith in your wo
e-shelf chains that LangChain supports:Chains that are built with LCEL. In this case, LangChain offers a
o take and in which order.QuickstartFor a quick start to working with agents, please check out this gettin
ocess, external data is retrieved and then passed to the LLM when doing the generation step.LangChain
LMs vs ChatModels, and output parsers. You should read this before getting started.QuickstartCovers th
mmon, building block compositionsMemoryPersist application state between runs of a chainCallbacksLo
Language (LCEL). These examples show how to compose different Runnable (the core LCEL interface
es a common set of invocation methods (invoke, batch, stream, ainvoke, …). This makes it possible for
odulesModel I/ORetrievalAgentsChainsMoreLangServeLangSmithLangGraphLangChain Expression La
em in a standard way. The standard interface includes:stream: stream back chunks of the responseinvo
ng a prompt template and a model together. To see how this works, let's create a chain that takes a topi
l" chain to the most complex chains (we've seen folks successfully run LCEL chains with 100s of steps i
nd manipulate external resources.Best PracticesWhen building such applications developers should rem
lt on and which facilitates component chainingBuild a simple application with LangChainTrace your appl
d to do that are NOT installed. You will need to install the dependencies for specific integrations separate
e ecosystem of integrations with various external resources like local and remote file systems, APIs and
hase and Mayo Oshin) by Chat with dataVideos (sorted by views)Using ChatGPT with YOUR OWN Dat
AI Handbook By James Briggs and Francisco InghamShort TutorialsLangChain Explained in 13 Minutes
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mmon ways people contribute:Documentation: Help improve our docs, including this one!Code: Help us w

u can see this in the API reference and will see warnings when using such functionality). The reason for l
Smith and WandB are the most comprehensive solutions for debugging. These platforms make it easy to
All functionality related to the Hugging Face Platform.📄 MicrosoftAll functionality related to Microsoft
rce information. These applications use a technique known as Retrieval Augmented Generation, or RAG
ely on a language model to reason (about how to answer based on provided context, what actions to tak
ely on a language model to reason (about how to answer based on provided context, what actions to tak

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terator (or AsyncIterator in the case of async streaming) of a single value, the final result returned by the
here, Hugging Face, etc) - the LLM class is designed to provide a standard interface for all of them.In thi
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M Format EnforcerManifestMinimaxModalMosaicMLNLP CloudOCI Data Science Model Deployment En
ement:A _call method that takes in a string, some optional stop words, and returns a string.A _llm_type
an speed up your application by reducing the number of API calls you make to the LLM provider.from lan
.from langchain.callbacks import get_openai_callbackfrom langchain_openai import OpenAIllm = OpenA
all.from langchain.callbacks import get_openai_callbackfrom langchain_openai import ChatOpenAIllm =
can speed up your application by reducing the number of API calls you make to the LLM provider.from la
ing an Iterator (or AsyncIterator in the case of async streaming) of a single value, the final result returne
inputs and outputs.SetupFor this example we'll need to install the OpenAI partner package:pip install lan
triever uses a combination of semantic similarity and a time decay.The algorithm for scoring them is:sem
that usually you don't know the specific queries your document storage system will face when you inges
model, there is a substantial performance degradation when you include 10+ retrieved documents. In bri
embedder is a wrapper around an embedder that caches embeddings in a key-value store. The text is h
ber of characters.How the text is split: by single character.How the chunk size is measured: by number o
s therefore a good idea to count the number of tokens. There are many tokenizers. When you count tok
.com/FullStackRetrieval-com/RetrievalTutorials/blob/main/5_Levels_Of_Text_Splitting.ipynbAll credit to
guage.from langchain.text_splitter import (Language, RecursiveCharacterTextSplitter,)# Full list of s
HeaderTextSplitter` is a "structure-aware" chunker that splits text at the element level and adds metadata
d operating systems.This covers how to load PDF documents into the Document format that we use dow
values).JSON Lines is a file format where each line is a valid JSON value.The JSONLoader uses a spec
er to control which files to load. Note that here it doesn't load the .rst file or the .html files.loader = Direct
ed > /dev/nullfrom langchain_community.document_loaders import UnstructuredMarkdownLoadermarkdo
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gchain_community.graphs import NeptuneGraphhost = "<neptune-host>"port = 8182use_https = Truegra
h graphs, the W3C recommends Semantic Web Technologies, cp. Semantic Web. SPARQL serves as a
need Docker and Python 3.x installed.To follow along with this tutorial, ensure you have a running Memg
g NebulaGraph cluster, for which you can run a containerized cluster by running the following script:curl
ow to do question answering over a graph data structure.Setting upWe have to install a Python package
uage.You will need to have a running Neo4j instance. One option is to create a free Neo4j database inst
latabase management system. You can simply run its docker locally:docker run -p 6379:6379 -it --rm fall
ement system. You can simply install it with pip:pip install kuzuOnce installed, you can simply import it ar
HugeGraph instance. You can run a local docker container by running the executing the following script:d
ArangoDB instance running via the ArangoDB Docker image:docker run -p 8529:8529 -e ARANGO_RO
ndation engines, or knowledge management applications.Diffbot's NLP API allows for the extraction of en

e, tone, or length of a document, to allow for a more targeted similarity search later. However, for large r
ersDocument transformersText embedding modelsVector storesRetrieversToolsAgents and toolkitsMem

a higher-level constructor method. However, all that is being done under the hood is constructing a chain
a higher-level constructor method. However, all that is being done under the hood is constructing a chain
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M Format EnforcerManifestMinimaxModalMosaicMLNLP CloudOCI Data Science Model Deployment En
ols.One of the core utility classes underpinning most (if not all) memory modules is the ChatMessageHis
tiple vectors per document. There are multiple use cases where this is beneficial. LangChain has a base
want to split a long document into smaller chunks that can fit into your model's context window. LangCh
val embeds (represents) queries in high-dimensional space and finds similar embedded documents base
nLLMRailsMarqoMeilisearchMilvusMomento Vector Index (MVI)MongoDB AtlasMyScaleNeo4j Vector In
er is a retriever that uses a vector store to retrieve documents. It is a lightweight wrapper around the vec
AI Foundation EndpointsOllamaOpenClipOpenAISageMakerSelf HostedSentence Transformers on Hug
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DataCollege ConfidentialConcurrent LoaderConfluenceCoNLL-UCopy PasteCouchbaseCSVCube Sema
nbedding and vector storage.These notes from Pinecone provide some useful tips:When a full paragrap
of characters. It tries to split on them in order until the chunks are small enough. The default list is ["\n\n"
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esComponentsAgents and toolkitsCSVCSVThis notebook shows how to use agents to interact with data
esComponentsAgents and toolkitsSQL DatabaseSQL DatabaseThis notebook showcases an agent des
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ith get_openai_callback() as cb: llm("What is the square root of 4?")total_tokens = cb.total_tokensasse
n.tools import MoveFileTool, format_tool_to_openai_functiontools = [MoveFileTool()]functions = [format_
mprove your LLM applications.When might this come in handy? You may find it useful when you want to:
an API call, you can describe functions and have the model intelligently choose to output a JSON object
guarding against long running agent runs.%pip install --upgrade --quiet wikipediafrom langchain import h
ues in the form of an extra key in the return value, which is a list of (action, observation) tuples.# pip insta
can be useful to ensure that they do not go haywire and take too many steps.from langchain import hub
ndled by the output parser. In this case, by default the agent errors. But you can easily control this functio
monstrate the AgentExecutorIterator functionality, we will set up a problem where an Agent must:Retrieve
return a single string. It can often be useful to have an agent return something with more structure.A go
d by the fact that it’s not just tokens that you will want to stream, but you may also want to stream back th
this agent. This is generally the most reliable way to create agents.We will first create it WITHOUT mem
erIt is useful to have all this information because this information can be used to build action-taking syste
in thing this affects is the prompting strategy used. You can use an agent with a different type of model t
nition, agents take a self-determined, input-dependent sequence of steps before returning a user-facing
several abstractions to make working with agents easy.AgentActionThis is a dataclass that represents th
uery LLMs for outputs that conform to that schema, using YAML to format their response.Keep in mind th
etrievers as input and ensemble the results of their get_relevant_documents() methods and rerank the re
ouilleRePhraseQuerySEC filingSelf-querying retrieverDeep LakeChromaDashVectorElasticsearchMilvus
ts for retrieval, there are often conflicting desires:You may want to have small documents, so that their e
:Avoid re-computing embeddings over unchanged contentAll of which should save you time and money,
benefit of LangChain OutputParsers is that many of them support streaming.Quick StartSee this quick-st
al guide into these topics - please see this documentationModelsFor this getting started guide, we will pr
helping it understand the context and generate relevant and coherent language-based output, such as a
s to models, and helper utils for working with the outputs of models.ModelsThere are two main types of m
rmation introduced earlier in the conversation. At bare minimum, a conversational system should be able
chRunfrom langchain_core.output_parsers import StrOutputParserfrom langchain_core.prompts import C
what tools are being used and how they’re being called, the agent prompt can easily grow larger than the

gchain.chains import OpenAIModerationChainfrom langchain_core.prompts import ChatPromptTemplat
ngchain langchain-openaifrom operator import itemgetterfrom langchain.memory import ConversationB
need to do is define a function that given an input returns a Runnable.One especially useful technique
arsers import StrOutputParserfrom langchain_core.prompts import (ChatPromptTemplate,)from langc
Parserfrom langchain_community.chat_models import ChatAnthropicmodel = ChatAnthropic(model="cla
hatPromptTemplatetemplate = """Based on the table schema below, write a SQL query that would answ
ain.schema import StrOutputParserfrom langchain_core.prompts import ChatPromptTemplatefrom lang
d will use this building block.PromptTemplate + LLMThe simplest composition is just combining a promp
pu tiktokenfrom operator import itemgetterfrom langchain_community.vectorstores import FAISSfrom la
nguageHow toAdd message history (memory)Add message history (memory)The RunnableWithMessa
nguageHow toInspect your runnablesInspect your runnablesOnce you create a runnable with LCEL, yo
nguageHow toStream custom generator functionsStream custom generator functionsYou can use gene
nguageHow toAdd fallbacksAdd fallbacksThere are many possible points of failure in an LLM applicatio
nguageHow toCreate a runnable with the `@chain` decoratorCreate a runnable with the `@chain` deco
nguageHow toConfigure chain internals at runtimeConfigure chain internals at runtimeOftentimes you
nguageHow toBind runtime argsBind runtime argsSometimes we want to invoke a Runnable within a R
nguageHow toRunnableBranch: Dynamically route logic based on inputDynamically route logic based o
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ion and testing. If you:Fix a bugAdd a relevant unit or integration test when possible. These live in tests/

ackages require more maintenance as separate packages, so please confirm with the LangChain team

r the fork you are pull-requesting from. See this Github docs page for more information.Notably, Github

nit tests:make testTo run unit tests in Docker:make docker_testsTo run a specific test:TEST_FILE=tests

t want this to be a blocker for good code getting contributed.Build Documentation LocallyInstall depende

CEL under the hoodload_query_constructor_chainload_query_constructor_runnableUse LCEL under th

logging, monitoring, streaming, and other tasks.You can subscribe to these events by using the callback

ry to log other outputs that are not captured by the handler.from langchain.callbacks import FileCallback

e URL scraping: #15559AddedNo additions.BetaMarked langchain_core.load.load and langchain_core.l

gamiDSPyDuckDBElasticsearchEpsillaEverNoteFacebook ChatFacebook FaissFigmaFireworksFlyteFo

Identifiable Information (PII) and toxicity.Constitutional chain: Prompt the model with a set of principles

ryfrom langchain.prompts import PromptTemplatefrom langchain_community.llms import Cohere, Hugg

s time, users can pin their pydantic version to v1 to avoid breaking changes, or start a partial migration

s:Open-source LLM: An open-source LLM that can be freely modified and sharedInference: Ability to ru

is important because often times different models require different prompts. So if your call to OpenAI fail

gamiDSPyDuckDBElasticsearchEpsillaEverNoteFacebook ChatFacebook FaissFigmaFireworksFlyteFo

he guides in this section review the APIs and functionality LangChain provides to help you better evalua

mentation of business logic around these services. This approach includes features such as prompt tem

h are used for modifying multiple key-value pairs at once:mget(key: Sequence[str]) -> List[Optional[byte

an📄 GMailThis loader goes over how to load data from GMail. There are many ways📄 iMessag

abel Studio is an📄 LLMonitorLLMonitor is an open-source observability platform that provides cost

earchElasticsearch is a📄 Momento CacheMomento Cache is the world’s first📄 MongoDBMong

uggingFace Hub ToolsHuman as a toolIFTTT WebHooksLemon AgentMemorizeMetaphor SearchNucli

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I Foundation EndpointsOllamaOpenClipOpenAISageMakerSelf HostedSentence Transformers on Hug

DataCollege ConfidentialConcurrent LoaderConfluenceCoNLL-UCopy PasteCouchbaseCSVCube Sem

g platform from Google Cloud to📄 Doctran: extract propertiesWe can extract useful features of docu

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M Format EnforcerManifestMinimaxModalMosaicMLNLP CloudOCI Data Science Model Deployment En

ding software as a service (SaaS), platform as a service (PaaS), and infrastructure as a service (IaaS).

1 items📦 Adapters2 items📦 Stores6 itemsPreviousZillizNextLLMsCommunityDiscordTwitterGit

Azure-based supercomputing platform from Microsoft.The OpenAI API is powered by a diverse set of

ral place where anyone can explore, experiment, collaborate, and build technology with Machine Learni

_genai import ChatGoogleGenerativeAIllm = ChatGoogleGenerativeAI(model="gemini-pro")llm.invoke(

ild generative AI applications with security, privacy, and responsible AI. Using Amazon Bedrock, you ca

s in single string. It expects this string to be in a particular format. This means that it is up the user to e

and returns a string.There are lots of LLM providers (OpenAI, Cohere, Hugging Face, etc) - the LLM cl

s and returns a message.There are lots of model providers (OpenAI, Cohere, Hugging Face, etc) - the

ed query. It is more general than a vector store. A retriever does not need to be able to store documents

d query and retrieve the embedding vectors that are 'most similar' to the embedded query. A vector stor

providers (OpenAI, Cohere, Hugging Face, etc) - this class is designed to provide a standard interface f

want to split a long document into smaller chunks that can fit into your model's context window. LangCh
adata. For example, there are document loaders for loading a simple .txt file, for loading the text contents
: Create specific or rare scenarios.Cost-effective: Often cheaper than real-world data collection.Regulato
various graph DBs.📄 Diffbot Graph TransformerOpen In Colab📄 ArangoDB QA chainOpen In C
for document question answering, with some differences:In particular, we can employ a splitting strateg
Transforming: HTML to formatted text (e.g., using HTML2Text or Beautiful Soup).Quickstartpip install -q
e can use OpenAI functions for tagging in LangChain.%pip install --upgrade --quiet langchain langchain-
s your documents into the LLM's context window. Two common approaches for this are:Stuff: Simply "st
an call functions to extract arbitrary entities from LLM responses.Parsing: Output parsers are classes tha
nerated interface: Use an LLM with access to API documentation to create an interface.QuickstartMany A
e show how to run GPT4All or LLaMA2 locally (e.g., on your laptop) using local embeddings and a local
through how to construct a conversational retrieval agent from components.%pip install --upgrade --quie
red Autonomous Agents blog post by Lilian Weng in the Returning sources guide.SetupDependenciesW
configure your retrieval chain to only retrieve certain information. This generally involves two steps.Step
logic for incorporating historical messages, and NOT on chat history management. Chat history manage
re, discuss the relevant LangChain components, and highlight additional resources for more advanced C
wered Autonomous Agents blog post by Lilian Weng in the Quickstart.SetupDependenciesWe'll use an O
write code, fix bugs, or improve our infrastructure.Integrations: Help us integrate with your favorite vendo
Lite).They enable use cases such as:Generating queries that will be run based on natural language que
n up-to-date, domain-specific information.OverviewThe chat model interface is based around messages
pache Beam. The current interface exposed is one inspired by NetworkX.The main use is for adding cyc
G.What is RAG?RAG is a technique for augmenting LLM knowledge with additional data.LLMs can reaso
nnables deployed on a server. A javascript client is available in LangChainJS.FeaturesInput and Output s
orkflow, check out the LangSmith Cookbook. Some of the guides therein include:Leveraging user feedba
a higher-level constructor method. However, all that is being done under the hood is constructing a chain
ng started guide. This covers basics like initializing an agent, creating tools, and adding memory.Concep
n provides all the building blocks for RAG applications - from simple to complex. This section of the docu
ne basics of getting started working with different types of models. You should walk through [this section]
og and stream intermediate steps of any chainPreviousLangChain Expression Language (LCEL)NextMo
) components to achieve various tasks. If you're just getting acquainted with LCEL, the Prompt + LLM pa
chains of LCEL objects to also automatically support these invocations. That is, every chain of LCEL ob
anguageHow toHow to📄 RunnableParallel: Manipulating datamanipulating-inputs-output}📄 Runn
oke: call the chain on an inputbatch: call the chain on a list of inputsThese also have corresponding asyn
ic and generates a joke:%pip install –upgrade –quiet langchain-core langchain-community langchain-ope
in production). To highlight a few of the reasons you might want to use LCEL:Streaming support When y
member to follow good security practices:Limit Permissions: Scope permissions specifically to the applica
lication with LangSmithServe your application with LangServeThat's a fair amount to cover! Let's dive in.
ely.From sourceIf you want to install from source, you can do so by cloning the repo and be sure that the
databases. These integrations allow developers to create versatile applications that combine the power
ta. This is magical. (LangChain OpenAI API) by TechLeadFirst look - ChatGPT + WolframAlpha (GPT-3.
s | QuickStart Tutorial for Beginners by RabbitmetricsLangChain Crash Course: Build an AutoGPT app in
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write code, fix bugs, or improve our infrastructure.Integrations: Help us integrate with your favorite vendo

beta features is that given the rate of change of the field, being able to move quickly is still a priority.Min
o not only log and visualize LLM apps, but also to actively debug, test and refine them.For anyone buildi
Azure and other Microsoft products.📄 OpenAIAll functionality related to OpenAI🗃 More201 iter
G.What is RAG?RAG is a technique for augmenting LLM knowledge with additional data.LLMs can reaso
te, etc.)This framework consists of several parts.LangChain Libraries: The Python and JavaScript librarie
te, etc.)This framework consists of several parts.LangChain Libraries: The Python and JavaScript librarie

antic LayerDatadog LogsDiffbotDiscordDocugamiDocusaurusDropboxDuckDBEmailEPubEtherscanEve
pip install --upgrade --quiet langchain pydanticimport osimport boto3comprehend_client = boto3.client("
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e underlying LLM provider. This obviously doesn't give you token-by-token streaming, which requires na
is walkthrough we'll work with an OpenAI LLM wrapper, although the functionalities highlighted are gene
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property that returns a string. Used for logging purposes only.There is a second optional thing it can imp
ngchain.globals import set_llm_cachefrom langchain_openai import OpenAI# To make the caching reall
AI(model_name="gpt-3.5-turbo-instruct", n=2, best_of=2)with get_openai_callback() as cb: result = llm
ChatOpenAI(model_name="gpt-4")with get_openai_callback() as cb: result = llm.invoke("Tell me a jok
angchain.globals import set_llm_cachefrom langchain_openai import ChatOpenAIllm = ChatOpenAI()In
d by the underlying ChatModel provider. This obviously doesn't give you token-by-token streaming, whic
ngchain-openaiAccessing the API requires an API key, which you can get by creating an account and he
mantic_similarity + (1.0 - decay_rate) ^ hours_passedNotably, hours_passed refers to the hours passed
st data into the system. This means that the information most relevant to a query may be buried in a doc
ief: When models must access relevant information in the middle of long contexts, they tend to ignore th
hashed and the hash is used as the key in the cache.The main supported way to initialized a CacheBack
of characters.# This is a long document we can split up.with open("../../state_of_the_union.txt") as f: sta
ens in your text you should use the same tokenizer as used in the language model.tiktokentiktoken is a
him.At a high level, this splits into sentences, then groups into groups of 3 sentences, and then merges
supported languages[e.value for e in Language]['cpp', 'go', 'java', 'kotlin', 'js', 'ts', 'php', 'proto', 'python', 'rs
a for each header "relevant" to any given chunk. It can return chunks element by element or combine ele
wnstream.Using PyPDFLoad PDF using pypdf into array of documents, where each document contains
cified jq schema to parse the JSON files. It uses the jq python package. Check this manual for a detailed
toryLoader('../', glob="**/*.md")docs = loader.load()len(docs)   1Show a progress barBy default a progre
own_path = "../../../../../README.md"loader = UnstructuredMarkdownLoader(markdown_path)data = loa
= CSVLoader(file_path='./example_data/mlb_teams_2012.csv')data = loader.load()print(data)   [Docum
edHTMLLoader("example_data/fake-content.html")data = loader.load()data   [Document(page_content=
aph = NeptuneGraph(host=host, port=port, use_https=use_https)from langchain.chains import NeptuneO
a query language analogously to SQL or Cypher for these graphs. This notebook demonstrates the appli
graph instance. You can download and run it in a local Docker container by executing the following script
-fsSL nebula-up.siwei.io/install.sh | bashOther options are: - Install as a Docker Desktop Extension. See
e.%pip install --upgrade --quiet networkxCreate the graphIn this section, we construct an example graph
tance in their Aura cloud service. You can also run the database locally using the Neo4j Desktop applica
kordb/falkordb:edgeOnce launched, you can simply start creating a database on the local machine and
nd start creating a database on the local machine and connect to it:import kuzudb = kuzu.Database("tes
docker run \   --name=graph \   -itd \   -p 8080:8080 \   hugegraph/hugegraphIf we want to connect Hu
OT_PASSWORD= arangodb/arangodbAn alternative is to use the ArangoDB Cloud Connector package
ntities, relationships, and semantic meaning from unstructured text data.By coupling Diffbot's NLP API w

numbers of documents, performing this labelling process manually can be tedious.The OpenAIMetadata
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story class. This is a super lightweight wrapper that provides convenience methods for saving HumanMe
e MultiVectorRetriever which makes querying this type of setup easy. A lot of the complexity lies in how t
hain has a number of built-in document transformers that make it easy to split, combine, filter, and otherw
ed on “distance”. But, retrieval may produce different results with subtle changes in query wording or if th
ndexNucliaDBOpenSearchPostgres EmbeddingPGVecto.rsPGVectorPineconeQdrantRedisRocksetScaN
ctor store class to make it conform to the retriever interface. It uses the search methods implemented by
ging FaceSpaCyTensorFlow HubText Embeddings InferenceTogether AIVolc EngineVoyage AIXorbits i
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h or document is embedded, the embedding process considers both the overall context and the relation
", "\n", " ", ""]. This has the effect of trying to keep all paragraphs (and then sentences, and then words) t
antic LayerDatadog LogsDiffbotDiscordDocugamiDocusaurusDropboxDuckDBEmailEPubEtherscanEve
a in CSV format. It is mostly optimized for question answering.NOTE: this agent calls the Pandas DataF
signed to interact with a SQL databases. The agent builds off of SQLDatabaseChain and is designed to
se agents to interact with a Pandas DataFrame. It is mostly optimized for question answering.NOTE: this
antic LayerDatadog LogsDiffbotDiscordDocugamiDocusaurusDropboxDuckDBEmailEPubEtherscanEve
antic LayerDatadog LogsDiffbotDiscordDocugamiDocusaurusDropboxDuckDBEmailEPubEtherscanEve
ert total_tokens > 0with get_openai_callback() as cb: llm("What is the square root of 4?") llm("What is
_tool_to_openai_function(t) for t in tools]message = model.predict_messages([HumanMessage(conten
Quickly debug a new chain, agent, or set of toolsCreate and manage datasets for fine-tuning, few-shot p
containing arguments to call those functions. The goal of the OpenAI Function APIs is to more reliably r
hubfrom langchain.agents import AgentExecutor, create_react_agentfrom langchain_community.tools im
all wikipediafrom langchain import hubfrom langchain.agents import AgentExecutor, create_openai_func
ofrom langchain.agents import AgentExecutor, create_react_agentfrom langchain_community.tools impo
onality with handle_parsing_errors! Let’s explore how.SetupWe will be using a wikipedia tool, so need to
e three prime numbers from a ToolMultiply these together.In this simple problem we can demonstrate ad
od example of this is an agent tasked with doing question-answering over some sources. Let’s say we w
he intermediate steps an agent takes.Let’s take a look at how to do this.Set up the agentLet’s set up a s
mory, but we will then show how to add memory in. Memory is needed to enable conversation.Load the L
ems! The name, description, and JSON schema can be used the prompt the LLM so it knows how to spe
than it is intended for, but it likely won't produce results of the same quality.Supports Chat HistoryWheth
output. This makes debugging these systems particularly tricky, and observability particularly important.
he action an agent should take. It has a tool property (which is the name of the tool that should be invoke
that large language models are leaky abstractions! You’ll have to use an LLM with sufficient capacity to g
esults based on the Reciprocal Rank Fusion algorithm.By leveraging the strengths of different algorithms
MongoDB AtlasMyScaleOpenSearchPineconeQdrantRedisSupabaseTimescale Vector (Postgres) self-
embeddings can most accurately reflect their meaning. If too long, then the embeddings can lose meanin
as well as improve your vector search results.Crucially, the indexing API will work even with documents
tart guide for an introduction to output parsers and how to work with them.Output Parser TypesLangCha
rovide two options: using OpenAI (a popular model available via API) or using a local open source mode
answering questions, completing sentences, or engaging in a conversation.QuickstartThis quick start pro
models that LangChain integrates with: LLMs and Chat Models. These are defined by their input and out
e to access some window of past messages directly. A more complex system will need to have a world r
ChatPromptTemplatefrom langchain_openai import ChatOpenAIsearch = DuckDuckGoSearchRun()temp
e model context window.With LCEL, it’s easy to add custom functionality for managing the size of promp

efrom langchain_openai import OpenAImoderate = OpenAIModerationChain()model = OpenAI()prompt =
ufferMemoryfrom langchain_core.prompts import ChatPromptTemplate, MessagesPlaceholderfrom lang
is to use embeddings to route a query to the most relevant prompt. Here's a very simple example.%pip i
hain_experimental.utilities import PythonREPLfrom langchain_openai import ChatOpenAItemplate = """\
aude-2")@tooldef search(query: str) -> str: """Search things about current events.""" return "32 degre
er the user's question:{schema}Question: {question}SQL Query:"""prompt = ChatPromptTemplate.from_
chain_openai import ChatOpenAIprompt1 = ChatPromptTemplate.from_template("what is the city {perso
t and model to create a chain that takes user input, adds it to a prompt, passes it to a model, and return
ngchain_core.output_parsers import StrOutputParserfrom langchain_core.prompts import ChatPromptT
geHistory let's us add message history to certain types of chains.Specifically, it can be used for any Run
u may often want to inspect it to get a better sense for what is going on. This notebook covers some me
erator functions (ie. functions that use the yield keyword, and behave like iterators) in a LCEL pipeline.Th
n, whether that be issues with LLM API's, poor model outputs, issues with other integrations, etc. Fallba
ratorYou can also turn an arbitrary function into a chain by adding a @chain decorator. This is functiona
nay want to experiment with, or even expose to the end user, multiple different ways of doing things. In c
unnable sequence with constant arguments that are not part of the output of the preceding Runnable in
n inputThis notebook covers how to do routing in the LangChain Expression Language.Routing allows y
e useful for manipulating the output of one Runnable to match the input format of the next Runnable in a
nctions in the pipeline.Note that all inputs to these functions need to be a SINGLE argument. If you have
allows to pass inputs unchanged or with the addition of extra keys. This typically is used in conjuction w
dexNucliaDBOpenSearchPostgres EmbeddingPGVecto.rsPGVectorPineconeQdrantRedisRocksetScaN
aWeaviate Hybrid SearchWikipediaUsing the You.com RetrieverZepToolsAgents and toolkitsMemoryCa
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ɔsitional-retrievalpython-lintrag-astradbrag-aws-bedrockrag-aws-kendrarag-chroma-multi-modal-multi-ve
'unit_tests and tests/integration_tests.Make an improvementUpdate any affected example notebooks an
before creating a new partner package.In the following sections, we'll walk through how to contribute to
doesn't allow this setting to be enabled for forks in organizations (issue). If you are working in an organiz
s/unit_tests/test_imports.py make testIntegration TestsIntegration tests cover logic that requires making
enciesQuarto - package that converts Jupyter notebooks (.ipynb files) into mdx files for serving in Docusa
e hoodVectorDBQARetrievalQAMore general to all retrieversSequential ChainLCELObviated by LCELS
ts argument available throughout the API. This argument is list of handler objects, which are expected to
kHandlerfrom langchain.chains import LLMChainfrom langchain.prompts import PromptTemplatefrom lar
load.loads as beta.Marked langchain_core.beta.runnables.context.ContextGet and langchain_core.beta.
ɔrefrontAIGitGitBookGoldenSerper - Google Search APIGooseAIGPT4AllGradientGraphsignalGrobidGu
which should guide the model behavior.Hugging Face prompt injection identification: Detect and handle
gingFaceHubfrom langchain_openai import OpenAIllms = [OpenAI(temperature=0), Cohere(model="
using pydantic v2 throughout their code, but avoiding mixing v1 and v2 code for LangChain (see below).
n this LLM on your device w/ acceptable latencyOpen-source LLMsUsers can now gain access to a rapi
ls, you don’t just want to send the same prompt to Anthropic - you probably want to use a different prom
ɔrefrontAIGitGitBookGoldenSerper - Google Search APIGooseAIGPT4AllGradientGraphsignalGrobidGu
ate your applications. Evaluation and testing are both critical when thinking about deploying LLM applicat
mplating, chat message generation, caching, vector embedding database creation, preprocessing, etc.Ca
s]]: get the contents of multiple keys, returning None if the key does not existmset(key_value_pairs: Seq

geThis notebook shows how to use the iMessage chat loader. This class LangSmith Chat Datasets
and usage analytics, user tracking, tracing and evaluation tools. PromptLayerPromptLayer is a pla
oDB is a source-available cross-platform document-oriented MotörheadMotörhead is a memory se
a UnderstandingOpenWeatherMapPolygon Stock Market APIPubMedPython REPLReddit SearchReque
yte Question AnsweringThis notebook shows how to do question answering over structured data,
aWeaviate Hybrid SearchWikipediaUsing the You.com RetrieverZepToolsAgents and toolkitsMemoryCa
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Microsoft Azure supports many programming languages, tools, and frameworks, including Microsoft-spe
HubPythonJS/TSMoreHomepageBlogCopyright © 2024 LangChain, Inc.
models with different capabilities and price points.ChatGPT is the Artificial Intelligence (AI) chatbot devel
ng.To use, we should have the huggingface_hub python package installed.pip install huggingface_hubS
"Sing a ballad of LangChain.")Gemini vision model supports image inputs when providing a single chat
an easily experiment with and evaluate top FMs for your use case, privately customize them with your da
nsure that is the case. LangChain provides several utilities and helper functions to make sure prompts th
lass is designed to provide a standard interface for all of them.Quick StartCheck out this quick start to ge
ChatModel class is designed to provide a standard interface for all of them.Quick StartCheck out this qui
s, only to return (or retrieve) them. Vector stores can be used as the backbone of a retriever, but there ar
e takes care of storing embedded data and performing vector search for you.Get startedThis walkthroug
or all of them.Embeddings create a vector representation of a piece of text. This is useful because it mea

hain has a number of built-in document transformers that make it easy to split, combine, filter, and otherv
s of any web page, or even for loading a transcript of a YouTube video.Document loaders provide a "loa
ory Compliance: Helps navigate strict data protection laws.Model Robustness: Can lead to better genera
Colab📄 Neo4j DB QA chainThis notebook shows how to use LLMs to provide a natural language📄
y that does a few things:Keeps each top-level function and class in the code is loaded into separate doc
langchain-openai langchain playwright beautifulsoup4playwright install# Set env var OPENAI_API_KEY
-openai# Set env var OPENAI_API_KEY or load from a .env file:# import dotenv# dotenv.load_dotenv()f
tuff" all your documents into a single prompt. This is the simplest approach (see here for more on the St
at structure LLM responses.Only some LLMs support functions (e.g., OpenAI), and they are more genera
APIs are already compatible with OpenAI function calling.For example, Klarna has a YAML file that desc
LLM.Document LoadingFirst, install packages needed for local embeddings and vector storage.%pip ins
et langchain langchain-community langchainhub langchain-openai faiss-cpuThe RetrieverTo start, we ne
/e'll use an OpenAI chat model and embeddings and a Chroma vector store in this walkthrough, but eve
1: Make sure the retriever you are using supports multiple usersAt the moment, there is no unified flag c
ement is covered here.We'll work off of the Q&A app we built over the LLM Powered Autonomous Agent
Q&A techniques. We'll also see how LangSmith can help us trace and understand our application. LangS
OpenAI chat model and embeddings and a Chroma vector store in this walkthrough, but everything show
ors and tools.🏳GitHub IssuesOur issues page is kept up to date with bugs, improvements, and feature
estionsCreating chatbots that can answer questions based on database dataBuilding custom dashboards
rather than raw text. Several components are important to consider for chat:chat model: See here for a l
cles to your LLM application. Crucially, this is NOT a DAG framework. If you want to build a DAG, you sh
on about wide-ranging topics, but their knowledge is limited to the public data up to a specific point in tim
schemas automatically inferred from your LangChain object, and enforced on every API call, with rich er
ack in your JS application (link).Building an automated feedback pipeline (link).How to evaluate and audi
n with LCEL.[Legacy] Chains constructed by subclassing from a legacy Chain class. These chains do no
otsThere are several key concepts to understand when building agents: Agents, AgentExecutor, Tools, T
umentation covers everything related to the retrieval step - e.g. the fetching of the data. Although this so
] if you want to get an overview of the functionality.PromptsThis section deep dives into the different type
odel I/OAdditionalCommunityDiscordTwitterGitHubPythonJS/TSMoreHomepageBlogCopyright © 2024 La
age is a good place to start.📄 Prompt + LLMThe most common and valuable composition is taking:
ojects is itself an LCEL object. 2. Composition primitives: LCEL provides a number of primitives that mak
nablePassthrough: Passing data throughpassing-data-through}📄 RunnableLambda: Run Custom Fu
nc methods:astream: stream back chunks of the response asyncainvoke: call the chain on an input asyn
enaifrom langchain_core.output_parsers import StrOutputParserfrom langchain_core.prompts import Ch
/ou build your chains with LCEL you get the best possible time-to-first-token (time elapsed until the first c
ation's need. Granting broad or excessive permissions can introduce significant security vulnerabilities. T
.SetupJupyter NotebookThis guide (and most of the other guides in the documentation) use Jupyter note
e directory is PATH/TO/REPO/langchain/libs/langchain running:pip install -e .LangChain communityThe
of LLMs with the ability to access, interact with and manipulate external resources.NextIntroductionCom
.5 and Wolfram|Alpha via LangChain by James Weaver) by Dr Alan D. ThompsonLangChain explained
n 25 minutes by Nicholas RenotteLangChain Crash Course - Build apps with language models by Patric
sitional-retrievalpython-lintrag-astradbrag-aws-bedrockrag-aws-kendrarag-chroma-multi-modal-multi-ve
ors and tools.🏳GitHub IssuesOur issues page is kept up to date with bugs, improvements, and feature

or version increases will occur for:Breaking changes for any public interfaces marked as beta.Patch vers
ing production-grade LLM applications, we highly recommend using a platform like this.set_debug and s
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'comprehend", region_name="us-east-1")from langchain_experimental.comprehend_moderation import
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inference (Xinference)YandexGPTVector storesRetrieversToolsAgents and toolkitsMemoryCallbacksCh
Bedrock is a fully managed service that offers a choice of high-performing foundation models (FMs) fron
basePrediction GuardPromptLayer OpenAIRELLMReplicateRunhouseSageMakerEndpointStochasticAI
tive support from the LLM provider, but ensures your code that expects an iterator of tokens ca
eric for all LLM types.SetupFor this example we'll need to install the OpenAI Python package:
basePrediction GuardPromptLayer OpenAIRELLMReplicateRunhouseSageMakerEndpointStochasticAI
basePrediction GuardPromptLayer OpenAIRELLMReplicateRunhouseSageMakerEndpointStochasticAI
plement:An _identifying_params property that is used to help with printing of this class. Should r
ly obvious, lets use a slower model.llm = OpenAI(model_name="gpt-3.5-turbo-instruct", n=2, best_of=2)
ı.invoke("Tell me a joke") print(cb)Tokens Used: 37 Prompt Tokens: 4 Completion
ĸe") print(cb)Tokens Used: 24 Prompt Tokens: 11 Completion Tokens: 13Successfu
Memory Cache%%timefrom langchain.cache import InMemoryCacheset_llm_cache(InMemoryCache())
ch requires native support from the ChatModel provider, but ensures your code that expects an i
eading here. Once we have a key we'll want to set it as an environment variable by runnin
since the object in the retriever was last accessed, not since it was created. This mea
ument with a lot of irrelevant text. Passing that full document through your application can lead
ne provided documents. See: https://arxiv.org/abs/2307.03172To avoid this issue you can re-order
kedEmbeddings is from_bytes_store. This takes in the following parameters:underlying_embedder: The
ate_of_the_union = f.read()from langchain.text_splitter import CharacterTextS
fast BPE tokenizer created by OpenAI.We can use it to estimate tokens used. It will p
one that are similar in the embedding space.Install Dependencies!pip install --quiet
st', 'ruby', 'rust', 'scala', 'swift', 'markdown',
ements with the same metadata, with the objectives of (a) keeping related text grouped (more or
the page content and metadata with page number.pip install pypdffrom langchain_community.document
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OpenCypherQAChainfrom langchain_openai import ChatOpenAIllm = ChatOpenAI(temperature=0, mod
ication of LLMs as a natural language interface to a graph database by generating SPARQL.Disclaimer:
t:docker run \ -it \ -p 7687:7687 \ -p 7444:7444 \ -p 3000:3000 \ -e MEMGRAPH="--bolt-server-
e here - NebulaGraph Cloud Service. See here - Deploy from package, source code, or via Kubernetes.
ɲ. At the moment, this works best for small pieces of text.from langchain.indexes import GraphIndexCrea
ation, or running a docker container. You can run a local docker container by running the executing the fo
connect to it.from langchain.chains import FalkorDBQAChainfrom langchain_community.graphs import I
st_db")conn = kuzu.Connection(db)First, we create the schema for a simple movie database:conn.execu
geGraph in the application, we need to install python sdk:pip3 install hugegraph-pythonIf you are using t
e to get a temporary cloud instance running:%%capture%pip install --upgrade --quiet python-arango # T
with Neo4j, a graph database, you can create powerful, dynamic graph structures based on the informati

aTagger document transformer automates this process by extracting metadata from each provided docu
ok covers how to get started with Anthropic chat models.from langchain.schema import HumanMessage

ot use LCEL under the hood but are rather standalone classes.We are working creating
ot use LCEL under the hood but are rather standalone classes.We are working creating
tionsThis notebook shows how to use an experimental wrapper around Anthropic that gives it the same A
ot use LCEL under the hood but are rather standalone classes.We are working creating
basePrediction GuardPromptLayer OpenAIRELLMReplicateRunhouseSageMakerEndpointStochasticAI
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basePrediction GuardPromptLayer OpenAIRELLMReplicateRunhouseSageMakerEndpointStochasticAI
essages, AIMessages, and then fetching them all.You may want to use this class directly if you are mana
to create the multiple vectors per document. This notebook covers some of the common ways
wise manipulate documents.When you want to deal with long pieces of text, it is necess
ne embeddings do not capture the semantics of the data well. Prompt engineering / tuning is someti
NNSemaDBSingleStoreDBscikit-learnSQLite-VSSStarRocksSupabase (Postgres)SurrealDBTairTencent
a vector store, like similarity search and MMR, to query the texts in the vector stor
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ships between the sentences and phrases within the text. This can result in a more comprehensive vect
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answer more general questions about a database, as well as recover from errors.Note that, as this ager
s agent calls the Python agent under the hood, which executes LLM generated Python code - this can be
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rNoteFacebook ChatFaunaFigmaGeopandasGitGitBookGitHubGoogle BigQueryGoogle Cloud Storage
s the square root of 4?")assert cb.total_tokens == total_tokens * 2# You can ki
nt="move file foo to bar")], functions=functions)messageAIMessage(content='', additional_kwargs={'func
prompting, and evaluationRun regression tests on your application to confidently developCapture p
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o install that%pip install --upgrade --quiet wikipediafrom langchain import hubfro
dding some logic to verify intermediate steps by checking whether their outputs are prime.fro
want the agent to respond not only with the answer, but also a list of the sources used. We then
simple agent for demonstration purposes. For our tool, we will use Tavily. Make sure that y
LMFirst, let’s load the language model we’re going to use to control the agent.from langchain_o
ecify what action to take, and then the function to call is equivalent to taking that
ner or not these agent types support chat history. If it does, that means it can be used
LangSmith is especially useful for such cases.When building with LangChain, all s
ed) and a tool_input property (the input to that tool)AgentFinishThis represents the f
generate well-formed YAML. In the OpenAI family, DaVinci can do reliably but Curie’s ability already dro
s, the EnsembleRetriever can achieve better performance than any single algorithm.The most com
queryingVectara self-queryingWeaviateSingleStoreDBSVMTavily Search APITF-IDFVespaWeaviate Hy
ng.You want to have long enough documents that the context of each chunk is retained.The Paren
s that have gone through several transformation steps (e.g., via text chunking) with res
ain has lots of different types of output parsers. This is a list of output parsers L
el.OpenAILocalFirst we'll need to install their partner package:pip install langcha
ovides a basic overview of how to work with prompts.How-To GuidesWe have many how-to guides for
tput types.LLMsLLMs in LangChain refer to pure text completion models. The APIs they
model that it is constantly updating, which allows it to do things like maintain information about entities a
plate = """turn the following user input into a search query for a search engine:{input}"""prompt = ChatPr
pts within your chain or agent. Let’s look at simple agent example that can search Wikipedia for informa

= ChatPromptTemplate.from_messages([("system", "repeat after me: {input}")])chain = prompt | modelch
gchain_core.runnables import RunnableLambda, RunnablePassthroughfrom langchain_openai import C
install --upgrade --quiet langchain-core langchain langchain-openaifrom langchain.utils.math im
Write some python code to solve the user's problem. Return only python code in Markdown format, e.g.:
es"tool_list = [search]# Get the prompt to use - you can modify this!prompt = hub.pull("hwchase17/xm
_template(template)from langchain_community.utilities import SQLDatabaseWe'll need the Chinook san
on} is from?")prompt2 = ChatPromptTemplate.from_template("what country is the city {city} in? respo
is the raw model output.Note, you can mix and match PromptTemplate/ChatPromptTemplates and LLMs
emplatefrom langchain_core.runnables import RunnableLambda, RunnablePassthroughfrom langchain_
nnable that takes as input one ofa sequence of BaseMessagea dict with a key that takes a sequence of
thods for doing so.First, let's create an example LCEL. We will create one that does retrieval%pip install
he signature of these generators should be Iterator[Input] -> Iterator[Output]. Or for async generators: As
acks help you gracefully handle and isolate these issues.Crucially, fallbacks can be applied not only on
aly equivalent to wrapping in a RunnableLambda.This will have the benefit of improved observability by t
order to make this experience as easy as possible, we have defined two methods.First, a configurable_fi
the sequence, and which are not part of the user input. We can use Runnable.bind() to easily pass thes
you to create non-deterministic chains where the output of a previous step defines the next step. Routing
a sequence.Here the input to prompt is expected to be a map with keys "context" and "question". The us
e a function that accepts multiple arguments, you should write a wrapper that accepts a single input and
with RunnableParallel to assign data to a new key in the map.RunnablePassthrough() called on it's own,
NNSemaDBSingleStoreDBscikit-learnSQLite-VSSStarRocksSupabase (Postgres)SurrealDBTairTencent
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ıd documentation. These live in docs.Update unit and integration tests w
each of these packages from a fake company, Parrot Link AI.Community PackageThe langchain-comm
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ɥuence[Tuple[str, bytes]]) -> None: set the contents of multiple keysmdelete(key:

sThis notebook demonstrates an easy way to load a LangSmith chat dataset LangSmith LLM Runs
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se are typically stored in Doctran: language translationComparing documents through embeddings
ɔorted)All ChatModels implement the Runnable interface, which comes with default implementations of a
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ecific and third-party software and systems.Azure OpenAI is an Azure service with powerful

oped by OpenAI.Installation and SetupInstall the integration package withpip insta
See a usage example.from langchain_community.llms import HuggingFaceHubHugging Face Local Pipe
message. Example:from langchain_core.messages import HumanMessagefrom langchain_google_gena
ata using techniques such as fine-tuning and Retrieval Augmented Generation (RAG), and build agents t
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ick start to get an overview of working with ChatModels, including all the different methods
re other types of retrievers as well.Retrievers accept a string query as input and re
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ans we can think about text in the vector space, and do things like semantic search where we look f

wise manipulate documents.When you want to deal with long pieces of text, it is necess
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FalkorDBQAChainThis notebook shows how to use LLMs to provide a natural language HugeG
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al than parsers.Parsers extract precisely what is enumerated in a provided schema
cribes its API and allows OpenAI to interact with it:https://www.klarna.com/u
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eed a retriever to use! The code here is mostly just example code. Feel free to
erything shown here works with any ChatModel or LLM, Embeddings, and VectorStore or Retriever.We'll
or filter for this in LangChain. Rather, each vectorstore and retriever may have th
its blog post by Lilian Weng in the Quickstart. We'll need to update two things about our existing app:
Smith will become increasingly helpful as our application grows in complexity.ArchitectureWe'll create
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RAGLet's look at adding in a retrieval step to a prompt and LLM, which adds Multiple chains
e it easy to compose chains, parallelize components, add fallbacks, dynamically configure chain interna
unctionsrun-custom-functions} RunnableBranch: Dynamically route logic based on inputdynamicall
cabatch: call the chain on a list of inputs asyncastream_log: stream back intermediate steps
atPromptTemplatefrom langchain_openai import ChatOpenAIprompt = ChatPromptTemplate.from_tem
chunk of output comes out). For some chains this means eg. we stream tokens straight from an LLM to
To avoid such vulnerabilities, consider using read-only credentials, disallowing a
ebooks and assume the reader is as well. Jupyter notebooks are perfect for learning how to wor
langchain-community package contains third-party integrations. It
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