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# Welcome to LangChain

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LangChain is a framework for developing applications powered by language models. We believe that the most powerful and differentiated applications will not only call out to a language model via an API, but will also:

- *Be data-aware*: connect a language model to other sources of data
- *Be agentic*: allow a language model to interact with its environment

The LangChain framework is designed with the above principles in mind.

This is the Python specific portion of the documentation. For a purely conceptual guide to LangChain, see [here](#). For the JavaScript documentation, see [here](#).

## Getting Started

Checkout the below guide for a walkthrough of how to get started using LangChain to create an Language Model application.

- [Getting Started Documentation](#)

## Modules





There are several main modules that LangChain provides support for. For each n  + K

provide some examples to get started, how-to guides, reference docs, and conceptual guides. These modules are, in increasing order of complexity:

- **Models**: The various model types and model integrations LangChain supports.
- **Prompts**: This includes prompt management, prompt optimization, and prompt serialization.
- **Memory**: Memory is the concept of persisting state between calls of a chain/agent. LangChain provides a standard interface for memory, a collection of memory implementations, and examples of chains/agents that use memory.
- **Indexes**: Language models are often more powerful when combined with your own text data - this module covers best practices for doing exactly that.
- **Chains**: Chains go beyond just a single LLM call, and are sequences of calls (whether to an LLM or a different utility). LangChain provides a standard interface for chains, lots of integrations with other tools, and end-to-end chains for common applications.
- **Agents**: Agents involve an LLM making decisions about which Actions to take, taking that Action, seeing an Observation, and repeating that until done. LangChain provides a standard interface for agents, a selection of agents to choose from, and examples of end to end agents.

## Use Cases

The above modules can be used in a variety of ways. LangChain also provides guidance and assistance in this. Below are some of the common use cases LangChain supports.

- **Autonomous Agents**: Autonomous agents are long running agents that take many steps in an attempt to accomplish an objective. Examples include AutoGPT and BabyAGI.
- **Agent Simulations**: Putting agents in a sandbox and observing how they interact with each other or to events can be an interesting way to observe their long-term memory abilities.
- **Personal Assistants**: The main LangChain use case. Personal assistants need to take actions, remember interactions, and have knowledge about your data.
- **Question Answering**: The second big LangChain use case. Answering questions over specific documents, only utilizing the information in those documents to construct an answer. 
- **Chatbots**: Since language models are good at producing text, that makes them great for creating chatbots. 

- [Querying Tabular Data](#): If you want to understand how to use LLMs to query data that is stored in a tabular format (csvs, SQL, dataframes, etc) you should read this page.
- [Code Understanding](#): If you want to understand how to use LLMs to query source code from github, you should read this page.
- [Interacting with APIs](#): Enabling LLMs to interact with APIs is extremely powerful in order to give them more up-to-date information and allow them to take actions.
- [Extraction](#): Extract structured information from text.
- [Summarization](#): Summarizing longer documents into shorter, more condensed chunks of information. A type of Data Augmented Generation.
- [Evaluation](#): Generative models are notoriously hard to evaluate with traditional metrics. One new way of evaluating them is using language models themselves to do the evaluation. LangChain provides some prompts/chains for assisting in this.

## Reference Docs

All of LangChain's reference documentation, in one place. Full documentation on all methods, classes, installation methods, and integration setups for LangChain.

- [Reference Documentation](#)



## LangChain Ecosystem

Guides for how other companies/products can be used with LangChain

- [LangChain Ecosystem](#)

## Additional Resources

Additional collection of resources we think may be useful as you develop your application!

- [LangChainHub](#): The LangChainHub is a place to share and explore other prompts, chains, and agents.
- [Glossary](#): A glossary of all related terms, papers, methods, etc. Whether imp  in LangChain or not!
- [Gallery](#): A collection of our favorite projects that use LangChain. Useful for fir  + K inspiration or seeing how things were done in other applications.

- [Deployments](#): A collection of instructions, code snippets, and template repositories for deploying LangChain apps.
- [Tracing](#): A guide on using tracing in LangChain to visualize the execution of chains and agents.
- [Model Laboratory](#): Experimenting with different prompts, models, and chains is a big part of developing the best possible application. The ModelLaboratory makes it easy to do so.
- [Discord](#): Join us on our Discord to discuss all things LangChain!
- [YouTube](#): A collection of the LangChain tutorials and videos.
- [Production Support](#): As you move your LangChains into production, we'd love to offer more comprehensive support. Please fill out this form and we'll set up a dedicated support Slack channel.



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