

LangSmith in Depth

From zero to advanced operations

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LS definition

- What is LS in her own words.
- Pitch messages.

LS terminology

- Traces.
- LLM Calls.
- Runs.
- Annotation Queues.
- Datasets.
- Hub.
- Collaboration.
- Auto-evaluation.
- Regression testing.
- Online evaluation.
- Observability.
- One-click deployment.
- More terminology.

LS FAQs

- Can you use LS without LangChain?
- Can you self-host LS?
- Is LS secure?
- Can you limit the number of traces sent to LS?
- Does LS slow your app?
- Does LS use your data?

LS: Initial Operations

- How to create a LS free account.
- How to create a new LS project.
- How to see the traces of your project.

Prototyping phase: challenges solved by LangSmith

- When things go wrong, how to identify what is failing.
 - Have LangSmith tracing enabled since the day 1 of the development of a new LLM Application.
- How to iterate and experiment in a fast and easy way.
 - How to use LS Playground to iterate and experiment.
- How to compare the performance of alternative prompts, retrieval strategies and model choices.
 - How to use LS Comparison View to compare the performance of alternative approaches.
- How to test the performance of the prototype.
 - How to use LS to create a Test Dataset.

LS Datasets: Advanced Tips

- How to evaluate your LLM Application with a Test Dataset.
- How many examples should have the Test Dataset?
- LS Datasets can be used for more things other than Evaluation.
- Offline Evaluation vs. Online Evaluation.

Beta testing phase: challenges solved by LangSmith

- How to process and analyze the feedback of the initial users.
 - Use LangSmith to filter traces with negative human feedback to understand the problems behind them.
 - Use LangSmith to inspect interesting traces and enter annotations about them.
 - Use LangSmith to expand the Test Dataset by adding runs as examples.

Production phase: challenges solved by LangSmith

- Keep processing and analyzing user feedback.
 - Keep using LangSmith as in the Beta Testing phase.
- How to measure the performance of the App.
 - Use LangSmith to monitor key metrics.
- How to keep improving the App.
 - Use LangSmith to mark different versions for A/B Testing of prompts, models or retrieval strategies.

LS: Advanced Tips

- Deploying multiple versions of the LLM app to production and monitor performance.
- What LLM models can you use with LS?
- Can I use LS if my LLM App is not developed using LangChain?
- Can I use LS with multi-modal apps?
- How to deploy your project to LangServe.

LS Guides and Recommendations

- LS Tracing
 - How-To Guides.
 - Use Cases Guides.
- LS Evaluation
 - Quickstart.
 - How-To Guides.
 - Recommendations.
- LS Monitoring
- LS Prompt Hub
 - Quickstart
- More info

LS Next Features: Detailed view

- Support for regression testing.
- Online evaluation.
- Better conversation support.
- LangServe deployment.
- Enterprise features.