

Apache Flink is an open source platform for distributed stream and batch data processing.

Flink's core is a streaming dataflow engine (features.html) that provides data distribution, communication, and fault tolerance for distributed computations over data streams.

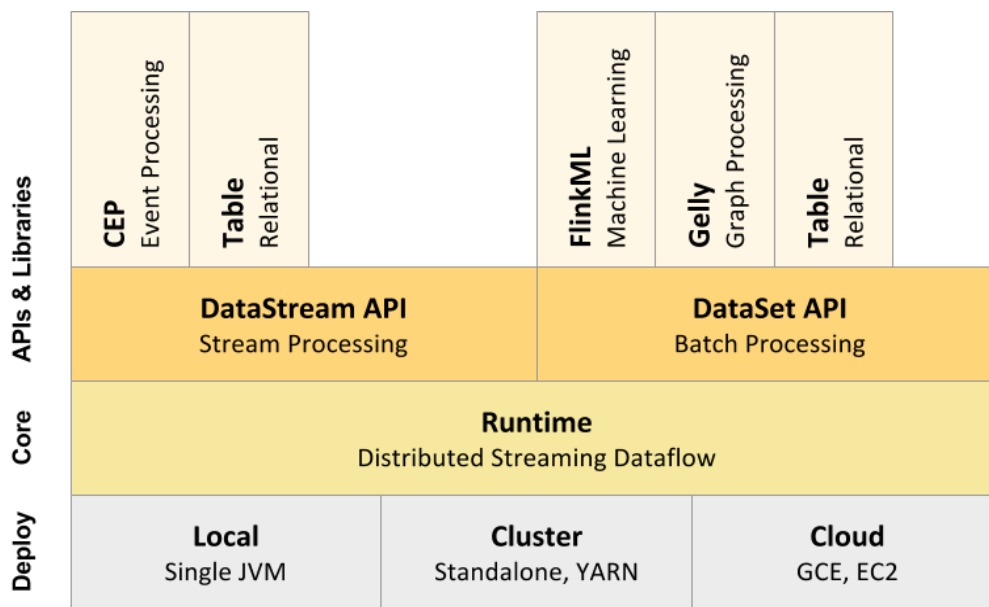
Flink includes **several APIs** for creating applications that use the Flink engine:

1. DataStream API (<http://ci.apache.org/projects/flink/flink-docs-master/apis/streaming/index.html>) for unbounded streams embedded in Java and Scala, and
2. DataSet API (<http://ci.apache.org/projects/flink/flink-docs-master/apis/batch/index.html>) for static data embedded in Java, Scala, and Python,
3. Table API (<http://ci.apache.org/projects/flink/flink-docs-master/apis/batch/libs/table.html>) with a SQL-like expression language embedded in Java and Scala.

Flink also bundles **libraries for domain-specific use cases**:

1. CEP (<http://ci.apache.org/projects/flink/flink-docs-master/apis/streaming/libs/cep.html>), a complex event processing library,
2. Machine Learning library (<http://ci.apache.org/projects/flink/flink-docs-master/apis/batch/libs/ml/index.html>), and
3. Gelly (<http://ci.apache.org/projects/flink/flink-docs-master/apis/batch/libs/gelly.html>), a graph processing API and library.

You can **integrate** Flink easily with other well-known open source systems both for data input and output (features.html#deployment-and-integration) as well as deployment (features.html#deployment-and-integration).



➤ **Streaming First** (features.html#streaming)

High throughput and low latency stream processing with exactly-once guarantees.

⚡ Batch on Streaming ([features.html#batch-on-streaming](#))

Batch processing applications run efficiently as special cases of stream processing applications.

🔥 APIs, Libraries, and Ecosystem ([features.html#apis-and-libs](#))

DataSet, DataStream, and more. Integrated with the Apache Big Data stack.

Check out the Features ([/features.html](#)) page to get a tour of all major Flink features.

Getting Started

Download the **latest stable release** and run Flink on your machine, cluster, or cloud:

Download Apache Flink 1.0 ([downloads.html](#))

Apache Flink on **GitHub** (<https://github.com/apache/flink>)

The documentation contains a setup guide (<http://ci.apache.org/projects/flink/flink-docs-master/setup/building.html>) for all deployment options.

The programming guide (http://ci.apache.org/projects/flink/flink-docs-master/apis/programming_guide.html) contains all information to get you started with writing and testing your Flink programs.

See our list of third-party packages ([/community.html#third-party-packages](#)) for Flink.

Check out the documentation (<http://ci.apache.org/projects/flink/flink-docs-master>) for the next steps.

Latest blog posts

22 Apr 2016 » Flink 1.0.2 Released ([/news/2016/04/22/release-1.0.2.html](#))

14 Apr 2016 » Flink Forward 2016 Call for Submissions Is Now Open ([/news/2016/04/14/flink-forward-announce.html](#))

06 Apr 2016 » Introducing Complex Event Processing (CEP) with Apache Flink ([/news/2016/04/06/cep-monitoring.html](#))




06 Apr 2016 » Flink 1.0.1 Released ([/news/2016/04/06/release-1.0.1.html](#))

08 Mar 2016 » Announcing Apache Flink 1.0.0 ([/news/2016/03/08/release-1.0.0.html](#))

Check out the [blog \(blog/\)](#) for all posts.

Community

You can post questions to the Flink community () on various channels. Pick the one, which suits you best:

-  **User mailing list.** Subscribe to the mailing list by sending an empty email to user-subscribe@flink.apache.org. Once the subscription is confirmed, you can send questions to user@flink.apache.org.
-  **Stack Overflow.** Post your questions to Stack Overflow (<http://stackoverflow.com/questions/ask/?tags=flink>) and tag them with #flink (<http://stackoverflow.com/questions/ask/?tags=flink>).
-  **IRC chat.** The IRC channel #flink at irc.freenode.org is dedicated to Apache Flink. Join the channel and chat with the Flink community.

Check out the [community page \(community.html\)](#) for all community-related information. If you want to contribute, make sure to have a look at the [contribution guide \(how-to-contribute.html\)](#).

Tweets by [@ApacheFlink](#)



Apache Flink [@ApacheFlink](#)

Apache Flink 1.0.2 has just been released:
flink.apache.org/news/2016/04/2...

22 Apr

Apache Flink Retweeted



FlinkForward [@FlinkForward](#)

Our Call for Submissions has started! Submit your abstract & be part of Flink Forward 2016: flink-forward.org

14 Apr

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