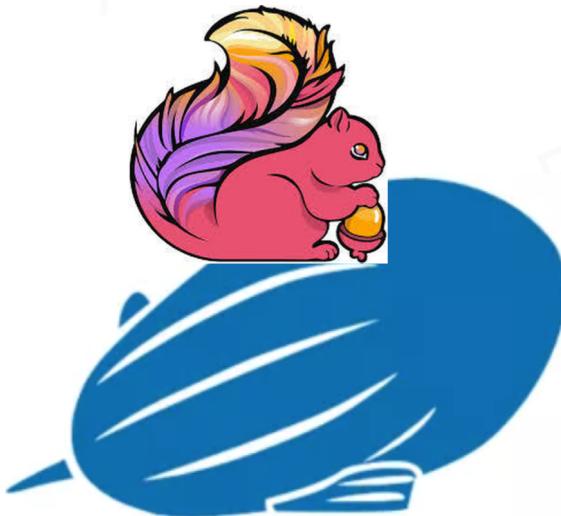




Apache Flink

Flink on Apache Zeppelin



简锋 (阿里巴巴高级技术专家)
Jeff Zhang

Who am I (Jeff Zhang)



2008



2010

Pivotal™

2013



2014



2018

Data



Apache Flink

Agender

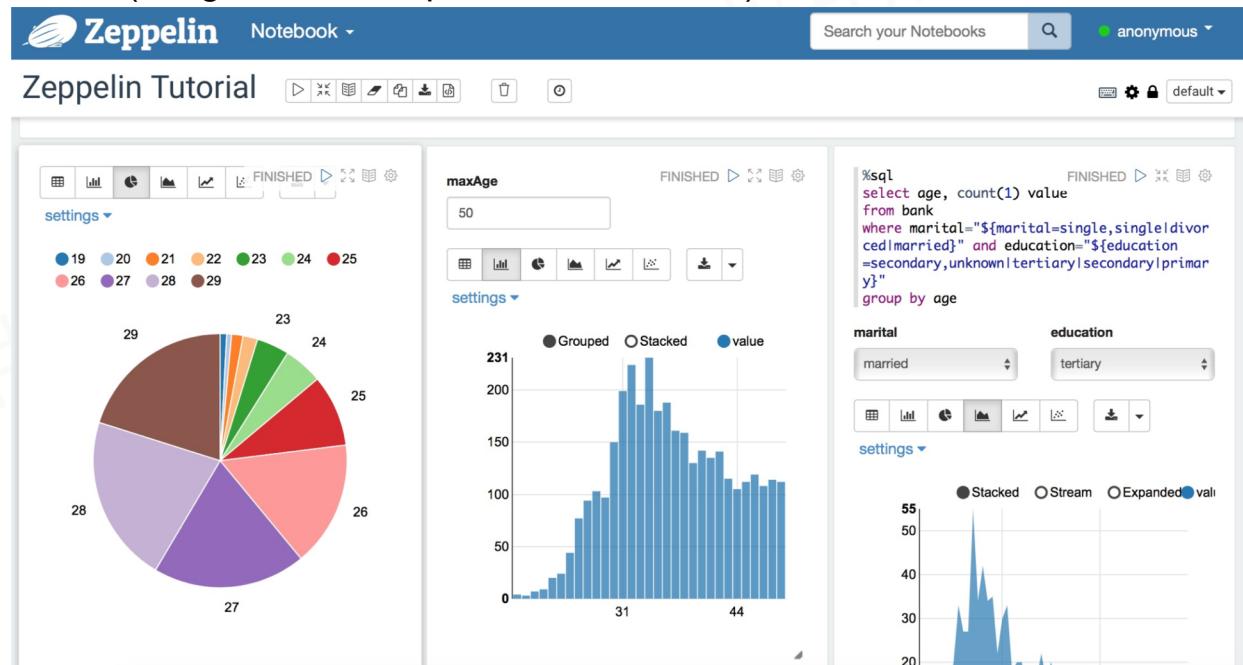
- **What is Zeppelin**
- **Flink on Zeppelin**
- **Jdbc/Python on Zeppelin**



Apache Flink

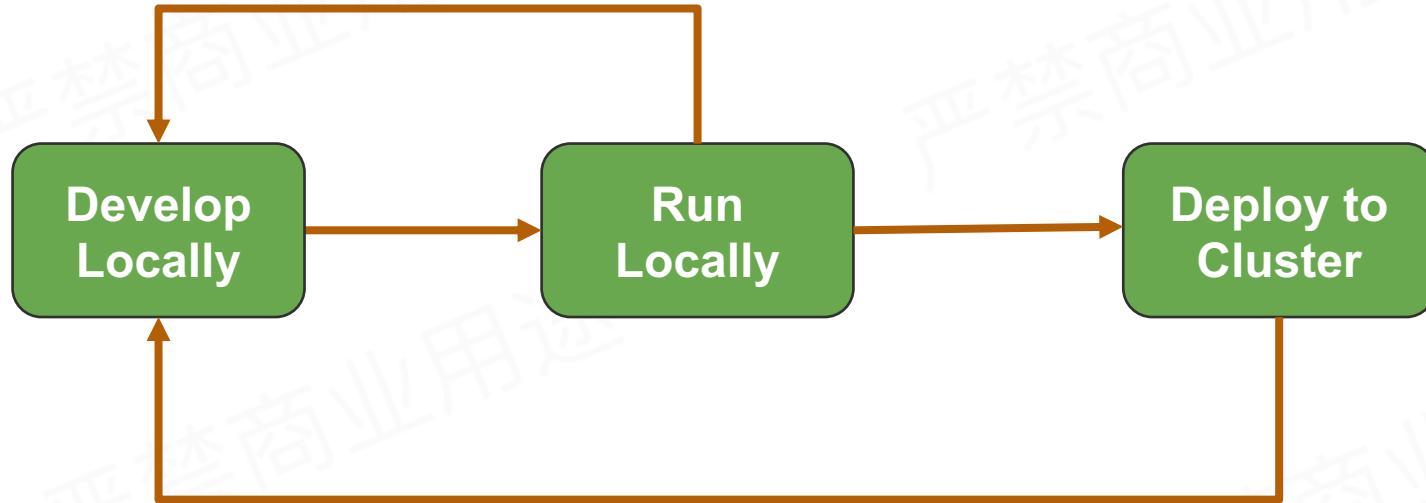
What is Zeppelin

Interactive web based interactive IDE (Integrated development environment)





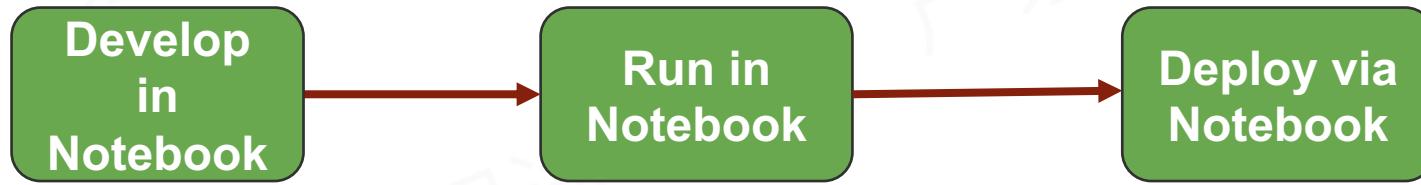
Traditional Approach





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Notebook Approach



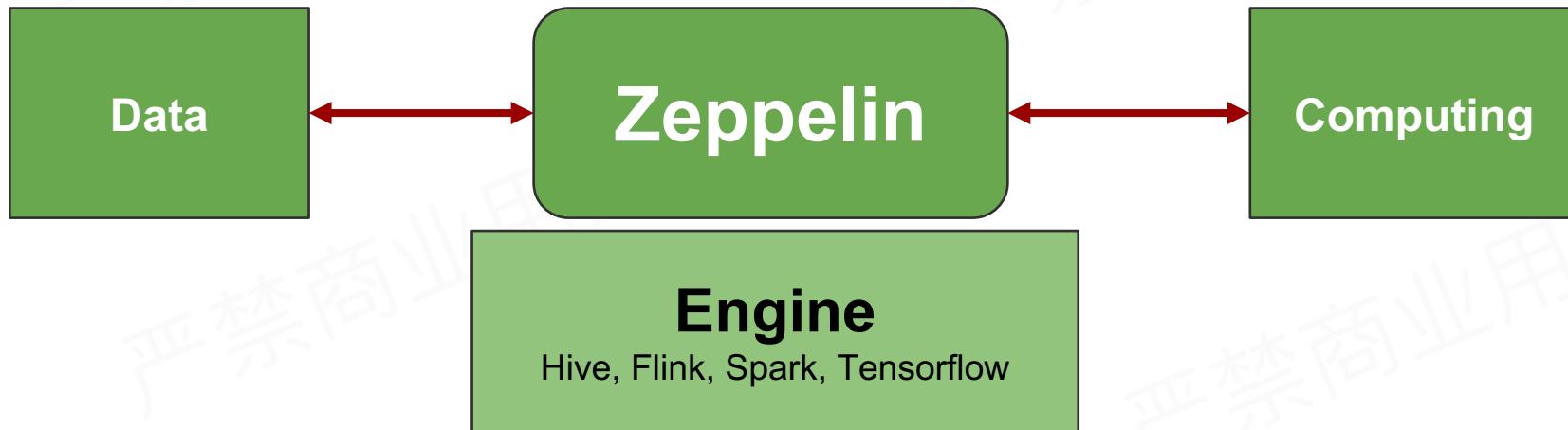


Traditional vs Notebook

	Traditional Approach	Notebook Approach
Complex	Thousands lines of code hundreds of classes	Hundreds of code
Interactivity	No	Yes
Visualization	No	Yes
Suitable Scenario	Complex Big Data Product	POC Data Analytics Machine Learning



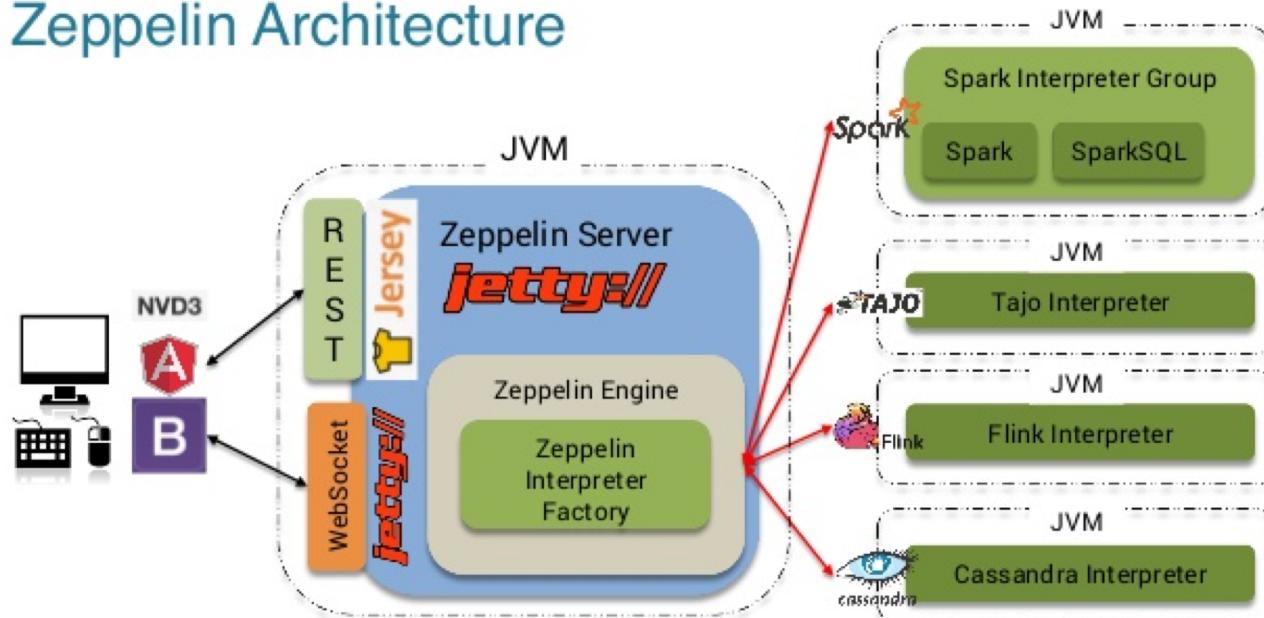
Zeppelin in Big Data





Zeppelin Architecture

Zeppelin Architecture





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Zeppelin Concept

- Interpreter
- Interpreter Setting
- Note
- Paragraph



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Extension

- Interpreter
- Display System
- Visualization



Notebook Storage

- Local FileSystem
- Hadoop FileSystem
- Cloud Storage (S3, GCS and etc)
- Git



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Security

- Authentication (Shiro)
- Authorization (Note Permission)

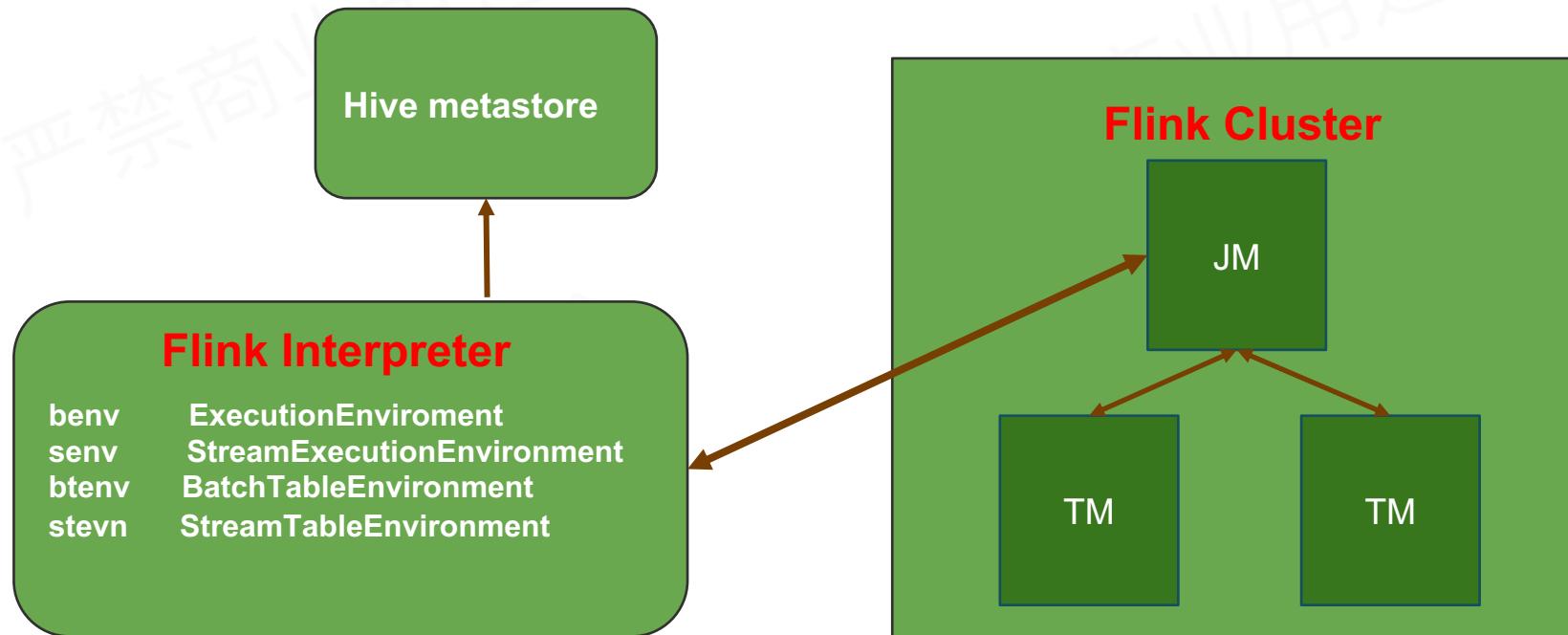


Flink Interpreter

- Scala
 - DataStream API
 - Table API
- SQL
 - DML
 - DDL (TBD)



Flink Interpreter





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Flink Interpreter

SQL + UDF = 90% of work





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Jdbc Interpreter

- Mysql
- Hive
- etc.



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Python Interpreter

- Python
- iPython



Resources

- <http://zeppelin.apache.org>
- <https://community.hortonworks.com/articles/70658/how-to-diagnose-zeppelin.html>
- <https://medium.com/@zjffdu/zeppelin-0-8-0-new-features-ea53e8810235>



Apache Flink

Summary

- What is Zeppelin
- Flink on Zeppelin
- Jdbc/Python on Zeppelin



Apache Flink

We are hiring jeffzhang.zjf@alibaba-inc.com

Zeppelin 微信群



章剑锋(Jeff) 
上海 浦东新区

扫一扫上面的二维码图案，加我微信

Flink Hive 钉钉群



Flink-Hive 中国社区用户群
512人 

扫一扫群二维码，立刻加入该群。

Flink 钉钉群



【2群】 Apache Flink C... 

扫一扫群二维码，立刻加入该群。