

IBM开源技术微讲堂

区块链和HyperLedger系列

第二讲

Hyperledger 项目与社区概览

<http://ibm.biz/opentech-ma>



“区块链和HyperLedger” 系列公开课

- 每周四晚8点档
 - 区块链商用之道
 - Hyperledger 项目与社区概览
 - Bluemix上的区块链服务
 - 开发和部署一个区块链应用
 - HyperLedger 中的共享账本
 - HyperLedger中的共识管理
 - HyperLedger中的隐私与安全
 - HyperLedger应用案例赏析



讲师介绍-Baohua Yang

- **Researcher in IBM**
 - Fintech, Cloud and Analytics
- **Open-Source contributor**
 - [OpenDaylight](#), [OpenStack](#), [Hyperledger](#), etc.
- **Hyperledger fan**
 - Code committer to [fabric](#), [sdk](#), [Cello](#) etc.
 - PTL of [Cello](#) project and [fabric-sdk-py](#) project
 - Chair of [Hyperledger Technical Working Group China](#)
 - Drafter of [fabric sdk spec](#) and [multi-channel consensus spec](#)
 - Mentor of Summer Intern Program



议程

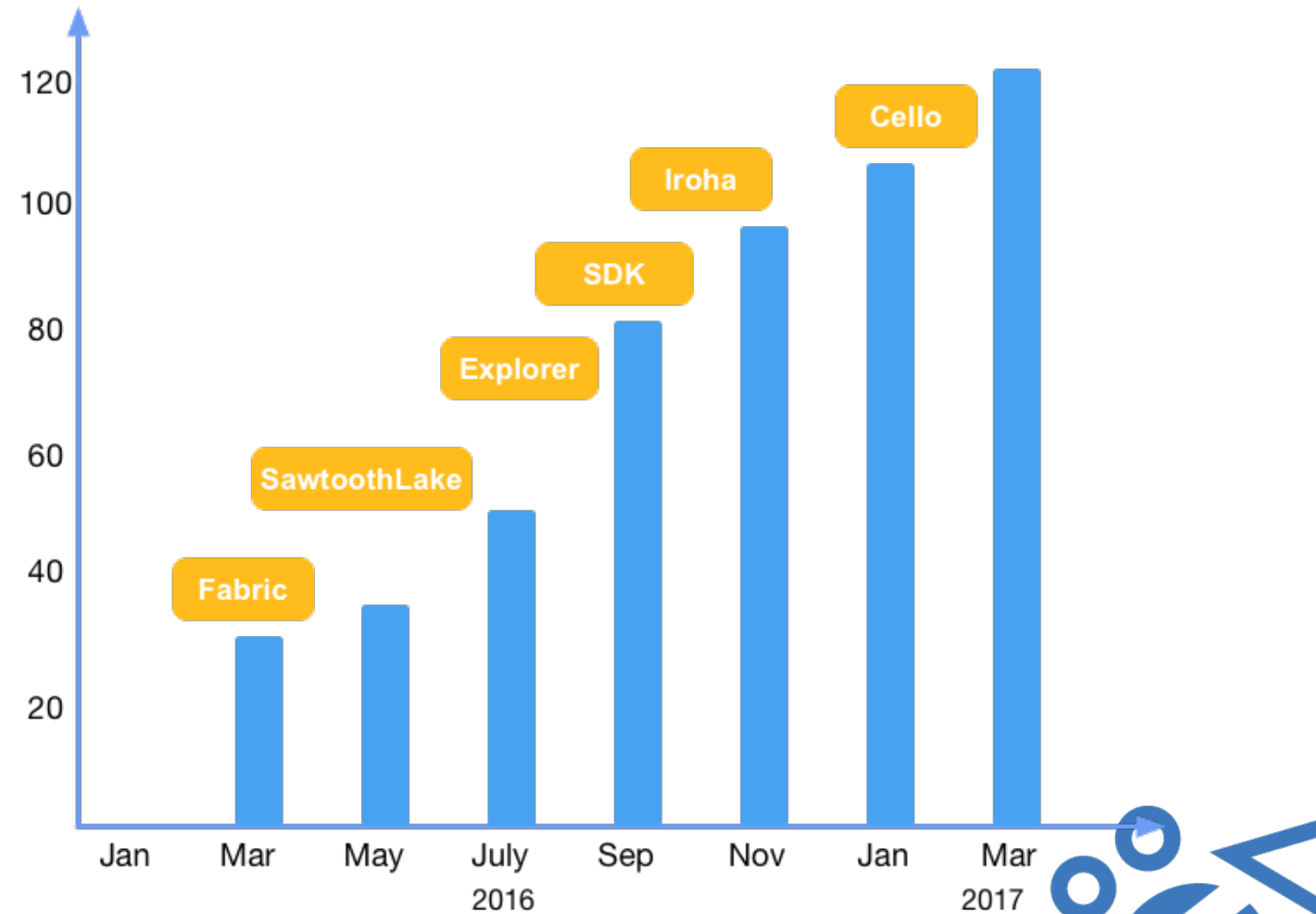
- Introduction to Hyperledger
- Hyperledger Projects
- Hyperledger Community
- Technical Working Group China
- Summary



Introduction to Hyperledger

- Since Dec 17, 2015
- [Apache v2 License](#)
- 30 founded members
- 29/122 (China) members
- 5 main projects
- 200+ contributors
- 8000+ commits

Enterprise grade, open source
distributed ledger framework!



Hyperledger Projects

- Open Communications

- [Mail-list](#)
- [Rocket chat](#)
- [Meetings](#)

- Lifecycle

- Proposal
- Incubation
- Active
- Deprecated
- End of Life

Blockchain Explorer

Fabric

STL

Iroha

Cello



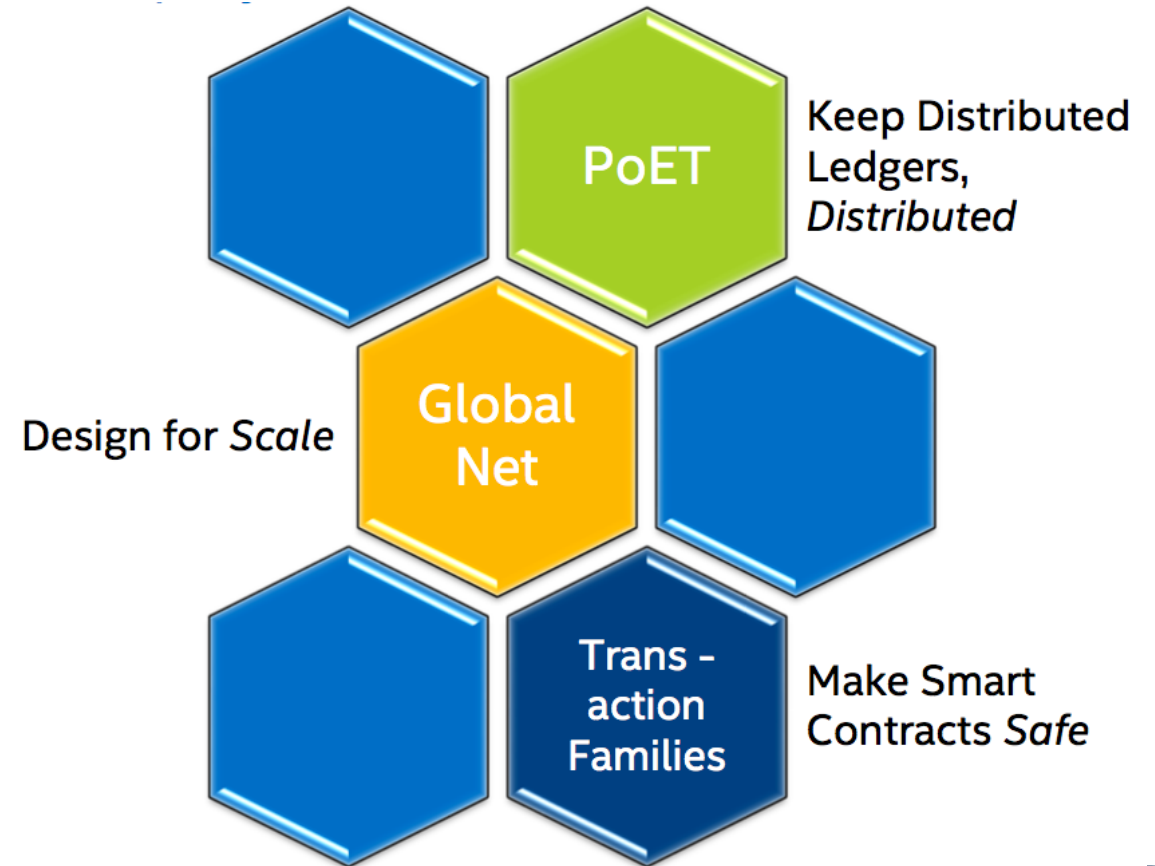
Hyperledger Fabric

- [Open-sourced](#) at Dec, 2015
- Proposed by IBM and DASH
- Golang
- 70+ contributors
- 4000+ commits
- v0.6: ~80k loc; v1.0: ~120k loc
- Active now, in 1.0 pre-release (alpha)



Hyperledger SawtoothLake

- [Open-sourced](#) at April, 2016
- Proposed by Intel
- Python
- 20+ contributors
- 2000+ commits
- Key features
 - PoET consensus
 - Transaction Families
 - Scalability



Hyperledger Iroha

- [Open-sourced](#) at Oct, 2016
- Proposed by [Soramitsu](#) and Hitachi
- C++
- 10+ contributors
- 1000+ commits
- Key features
 - C++ environment
 - Mobile and Web application Support
 - Sumeragi consensus

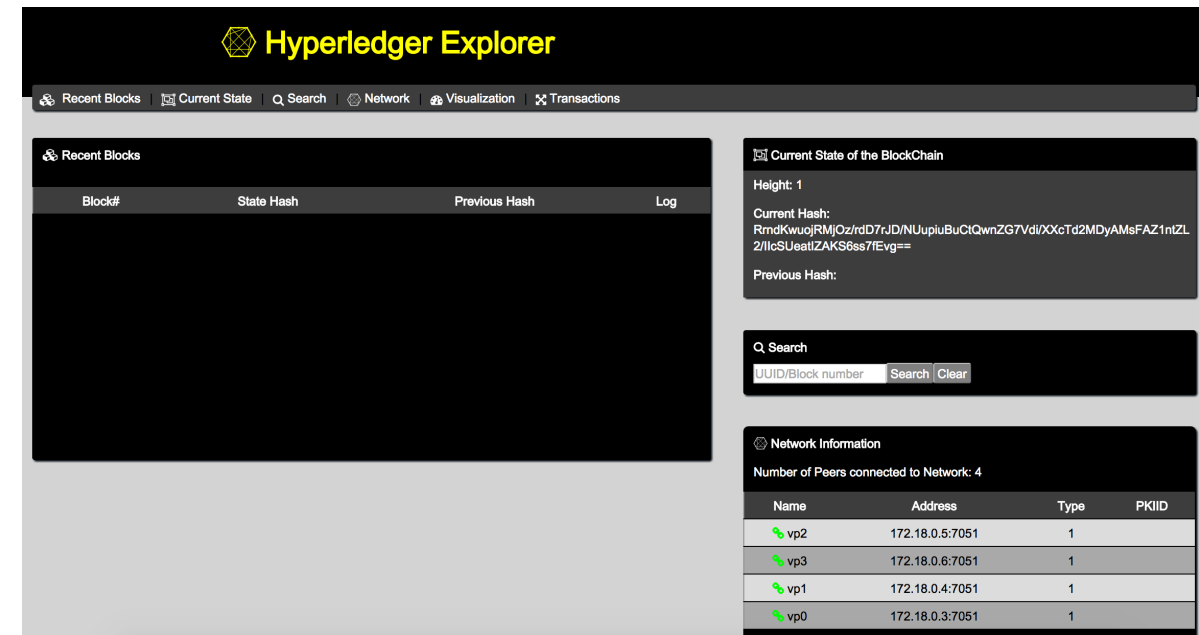


IROHA



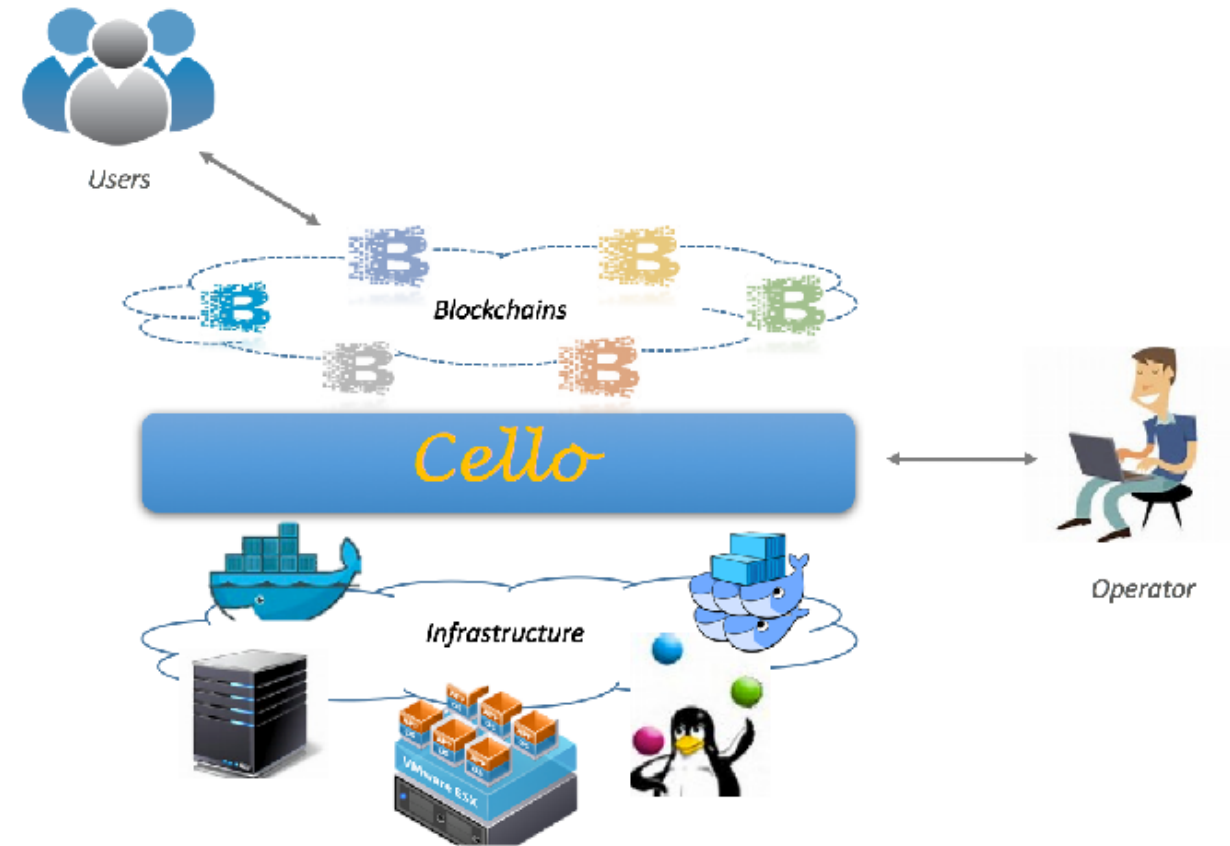
Hyperledger Blockchain Explorer

- [Open-sourced](#) at Aug, 2016
- Proposed by Intel, DTCC, IBM
- UI to interact with ledger
- Node.js
- Under-development
- Key features
 - Web UI to explorer a blockchain
 - Single-Page Application



Hyperledger Cello

- [Open-sourced](#) at Jan, 2017
- Proposed by IBM
- Blockchain as a Service
- Python, JavaScript
- 270+ commits
- Key features
 - Support various infrastructures
 - High-performance
 - Scalability
 - Pluggability



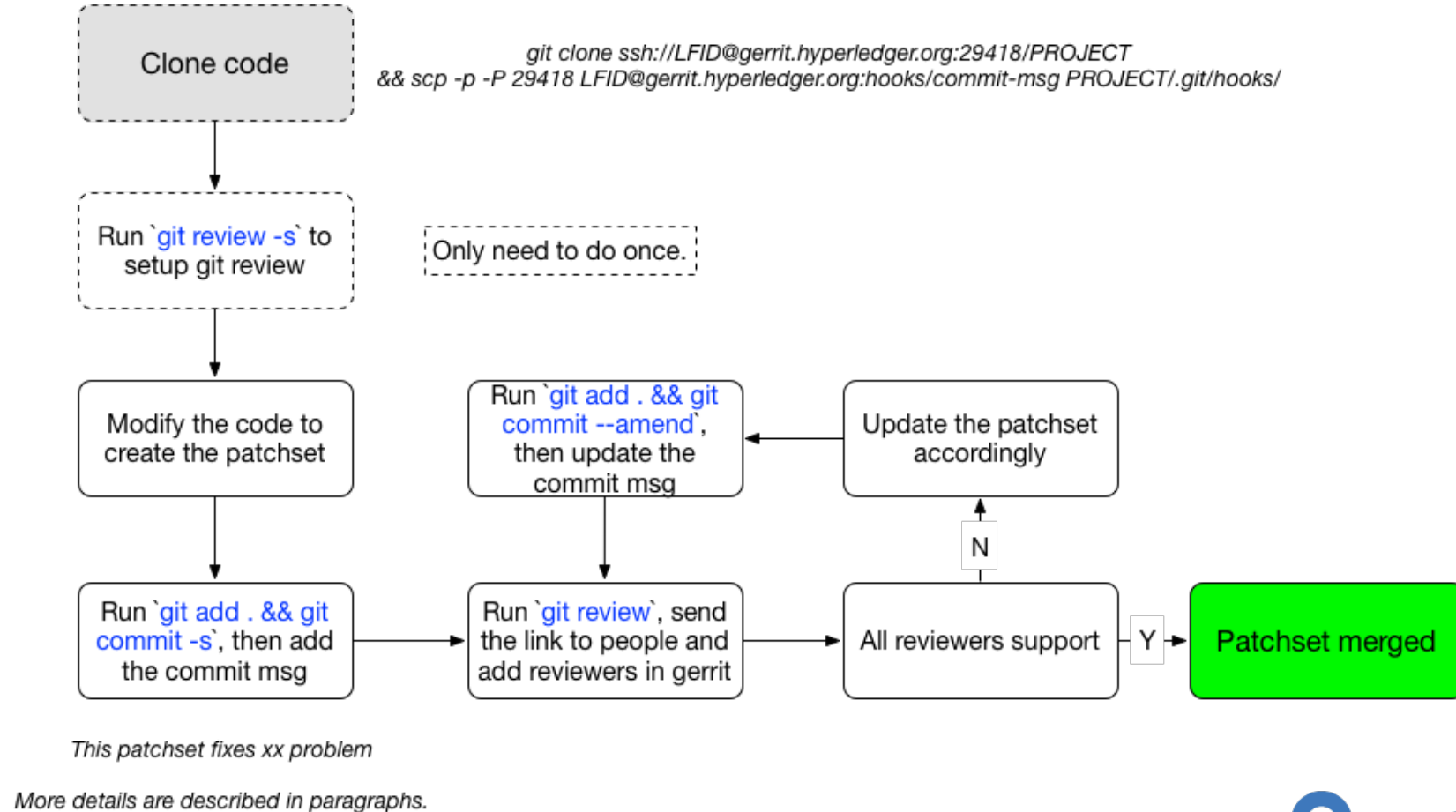
Hyperledger Fabric SDK

- Node.Js
 - <https://github.com/hyperledger/fabric-sdk-node>
- Python
 - <https://github.com/hyperledger/fabric-sdk-py>
- Java
 - <https://github.com/hyperledger/fabric-sdk-java>



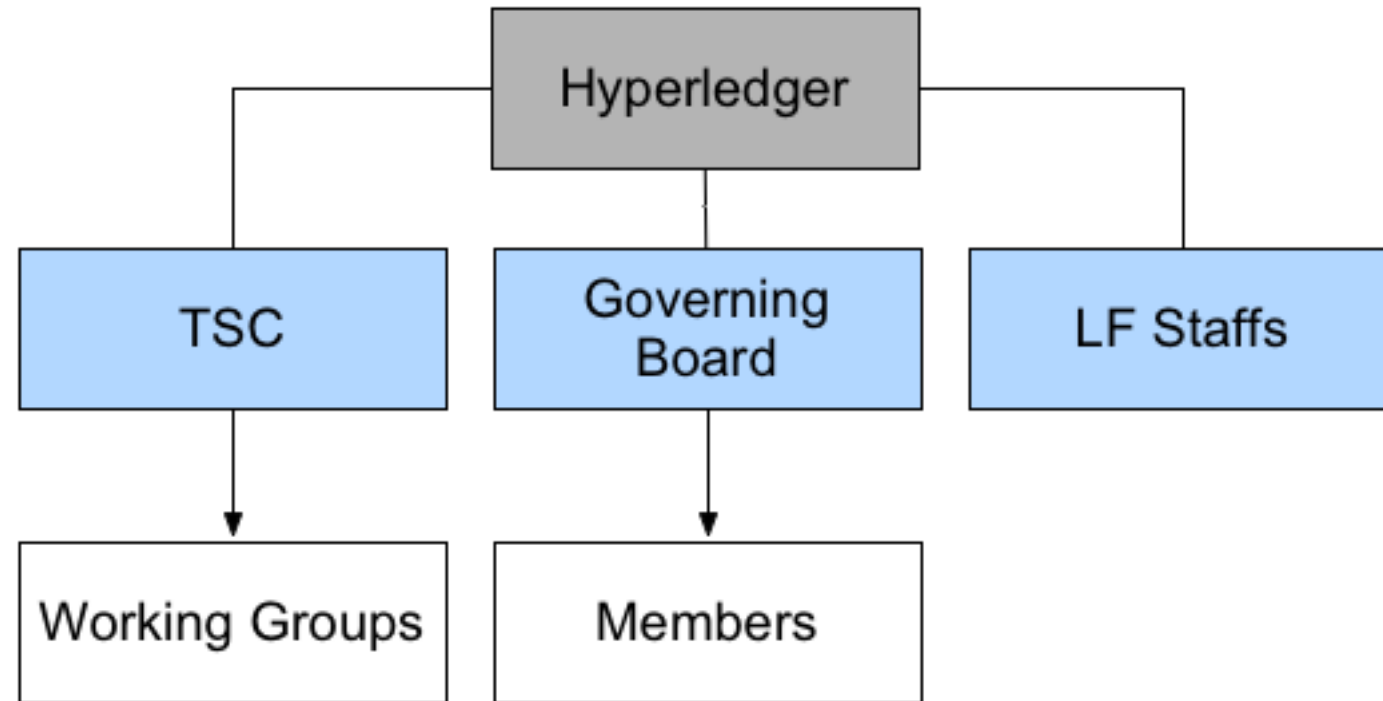
How to Contribute

- [Linux Foundation ID](#)
- [Jira](#) to manage tasks
- [Gerrit](#) to host code
- [RocketChat](#)



Hyperledger Community

- Linux Foundation Support
- Organizations
 - Technical Steering Committee
 - Governing Board
 - Linux Foundation Staffs
- TWG-China



Hyperledger Community

- Events
 - Meetups
 - 9300+ attendees across 40+ meetup groups
 - Hackathon
 - 1st Asia Hackathon at Shanghai on Mar 11,12
 - Hackfest
 - Beijing in June, TBD
- Wechat Public Number



Technical Working Group China

- About TWG-China
 - Since Dec 1, 2016
 - wiki.hyperledger.org/groups/tsc/technical-working-group-china
- Email
 - lists.hyperledger.org/mailman/listinfo/hyperledger-twg-china
 - hyperledger-twg-china@lists.hyperledger.org
- Online Chat
 - [twg-china](#)



Technical Working Group China

- 1st Asia Hackathon
 - [Mar 11/12, 2017, Shanghai](#)
- Meetups
 - Beijing, Shenzhen, Shanghai
- Educations/Trainings
- Projects
- i18n Team
- Summer Open-Source Internship



Welcome for more volunteers!



Summary

- Hyperledger is for Enterprise grade, open source distributed ledger technologies!
- Young, and evolves quickly, with numbers of interesting projects!
- Active communities supported by Linux Foundation!



Reference

- Hyperledger Wiki&Documentation
 - wiki.hyperledger.org
 - hyperledger-fabric.readthedocs.io
- IBM 区块链
 - ibm.com/ibm/cn/blockchain/
- 《区块链技术指南》
 - github.com/yeasy/blockchain_guide
- 《Docker 从入门到实践》
 - github.com/yeasy/docker_practice



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