LF AI & Data Technical Advisory Council (TAC)

Bi weekly call - February 22, 2024



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Recording of Calls

Reminder:

TAC calls are recorded and available for viewing on the TAC Wiki



LF AI & Data Useful Links

Web site: <u>Ifaidata.foundation</u>

Wiki: wiki.lfaidata.foundation

GitHub: <u>github.com/lfaidata</u>

Landscape: https://landscape.lfaidata.foundation

Mail Lists: https://lists.lfaidata.foundation

Slack: https://slack.lfaidata.foundation

Youtube: https://www.youtube.com/channel/UCfasaeqXJBCAJMNO9HcHfbA

> LF AI Logos: https://github.com/lfaidata/artwork/tree/master/lfaidata

PPT Template:

https://drive.google.com/file/d/1eiDNJvXCqSZHT4Zk -czASlz2GTBRZk2/view?usp=sharing

> Events: https://lfaidata.foundation/events/

> Events Calendar https://wiki.lfaidata.foundation/pages/viewpage.action?pageId=12091544

> Event Wiki https://wiki.lfaidata.foundation/display/DL/LF+AI+Data+Foundation+Events



Agenda

- Roll Call (1 mins)
- Approval of Minutes from previous meeting (2 mins)
- Foundation Updates (5 mins)
- DocArrary graduation proposal Nan Wang (20 mins)
- Generative AI Commons Updates Matt White (10 mins)
- UCSC HCI MS program Yassi Moghaddam (10 mins)
- Open Discussion



TAC Voting Members

Note: we still need a few designated backups specified on wiki

Member Company or Graduated Project	Membership Level or Project Level	Voting Eligibility	Country	TAC Representative	Designated TAC Representative Alternates
4paradigm	Premier	Voting Member	China	Zhongyi Tan	
Microsoft	Premier	Voting Member	USA	Ali Dalloul	
Amazon Web Services	Premier	Voting Member	USÁ	Brian Granger	Mark Atwood
Ericsson	Premier	Voting Member	Sweden	Rani Yadav-Ranjan	
Huawei	Premier	Voting Member	China	Howard (Huang Zhipeng)	Charlotte (Xiaoman Hu), Leon (Hui Wang)
IBM	Premier	Voting Member	USA	Susan Malaika	Beat Buesser, Alexandre Eichenberger
ОРРО	Premier	Voting Member	China	Jimmy (Hongmin Xu)	
SAS	Premier	Voting Member	USA	*Nancy Rausch	Liz McIntosh
ZTE	Premier	Voting Member	China	Wei Meng	Liya Yuan
Adversarial Robustness Toolbox Project	Graduated Technical Project	Voting Member	USA	Beat Buesser	Kevin Eykholt
Angel Project	Graduated Technical Project	Voting Member	China	Jun Yao	
Egeria Project	Graduated Technical Project	Voting Member	UK	Mandy Chessell	Nigel Jones, David Radley, Maryna Strelchuk, Ljupcho Palashevski, Chris Grote
Flyte Project	Graduated Technical Project	Voting Member	USA	Ketan Umare	
Horovod Project	Graduated Technical Project	Voting Member	USA	Travis Addair	
Milvus Project	Graduated Technical Project	Voting Member	China	Xiaofan Luan	Jun Gu
ONNX Project	Graduated Technical Project	Voting Member	USA	Alexandre Eichenberger	Andreas Fehlner, Prasanth Pulavarthi, Jim Spohrer
Pyro Project	Graduated Technical Project	Voting Member	USA	Fritz Obermeyer	
Open Lineage Project	Graduated Technical Project	Voting Member	USA	Julien Le Dem	Michael Robinson, Mandy Chessell
Marquez Project	Graduated Technical Project	Voting Member	USA	Willy Lulciuc	TBD



Minutes approval



Approval of January 25, 2024 Minutes

Draft minutes from the February 8, 2024, TAC call were previously distributed to the TAC members via the mailing list

Proposed Resolution:

That the minutes of the February 8, 2024, meeting of the Technical Advisory Council of the LF AI & Data Foundation are hereby approved.



General Foundation Updates

TLFAI & DATA

Welcome to Our Elected Officers



Wei Meng
ZTE
Board Chair



Vini Jaiswal ByteDance TAC Chair



Anni Lai FutureWei GenAl Commons Chair



Alexy Khrabrov
IBM
GenAl Commons Vice Chair



New Members

General





Associate











19-20 June | Paris: https://hubs.la/Q02l67Yg0

14-15 Oct | Seattle: https://hubs.la/Q02l63_w0

Save the date: 23 Aug | Hong Kong 28-29 Oct | Tokyo



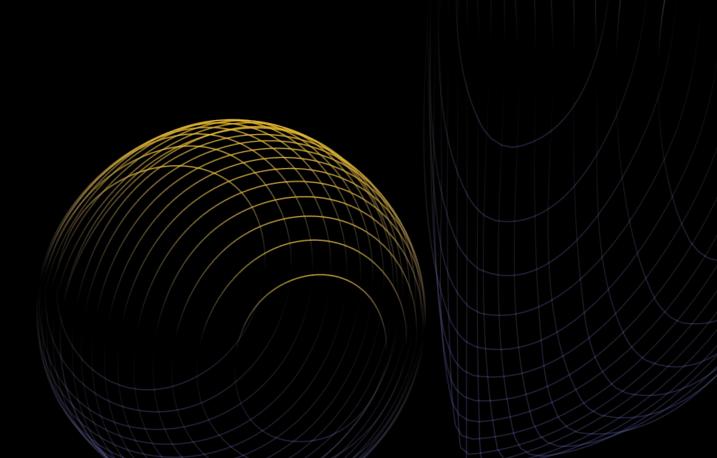
DocArrary Graduation Proposal Nan Wang

TLFAI & DATA



DocArray @ LF AI & DATA

proposal for graduation

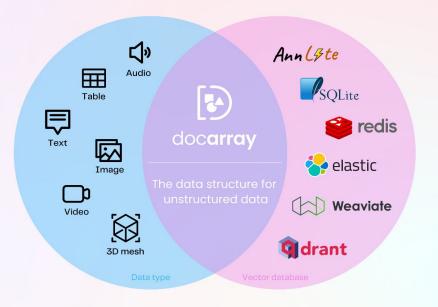




DocArray

DocArray is a Python library expertly crafted for the representation, transmission, storage, and retrieval of multimodal data.

Your **one-stop solution** for **any data type** & **any vector database**



Jine.



40+ contributors

Entered incubation

60+ contributors

Ready for graduation

72 contributors (+20%)

2022.1

2022.11

2023.7

2023.7

2023.12

Now

Open sourced.

Built internally by Jina Al

Released v0.30

Rewritten to improve the usability

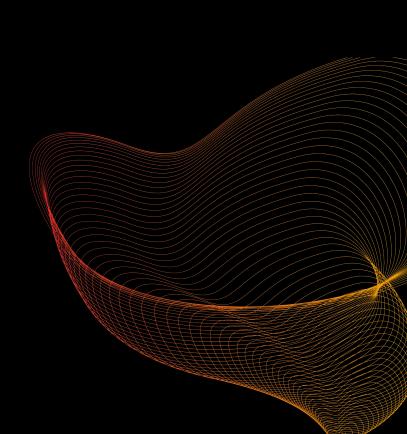
Released v0.40

Adaption to PyDantic v2



Graduation Progress

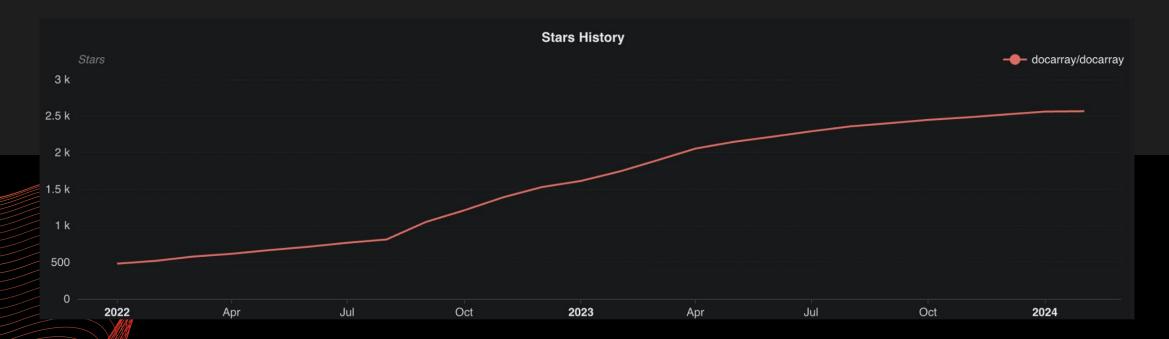
- Contributors
 - o 72 contributors (including Jina Al, Weavite, IBM, Qdrant, Redis, Epsilla and etc.
- Reached 2.7k stars on GitHub.
- Commits
 - o 6835 commits, about 68 commits per week
- OpenSSF Best Practices
 - Achieved and maintained Gold Badge.
- Governance and Procedure
 - o TSC, Documentation for Contribution Guide, Charter, Monthly TSC meeting
- LF AI & DATA Collabration
 - DocArray integration with Milvus as one vector storage option





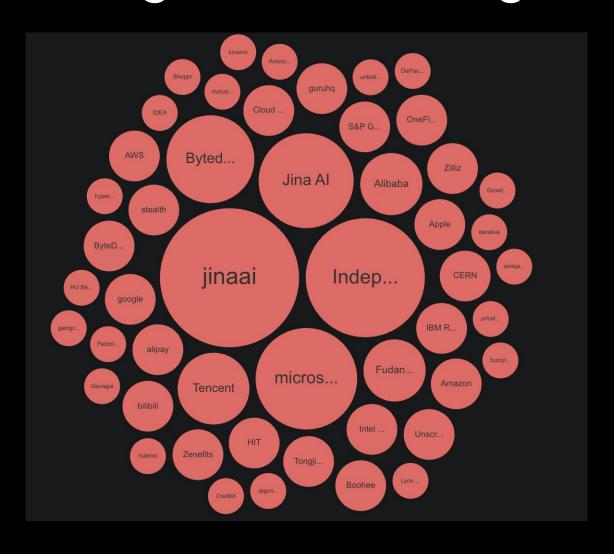
Growth during incubation

- Stars: 2566 (2280, +12%)
- Commits: 6835 (6522, +5%)
- Forks: 217 (187, +16%)
- PR Creators: 81 (69, +17%)





Stargazers from big-tech & academic

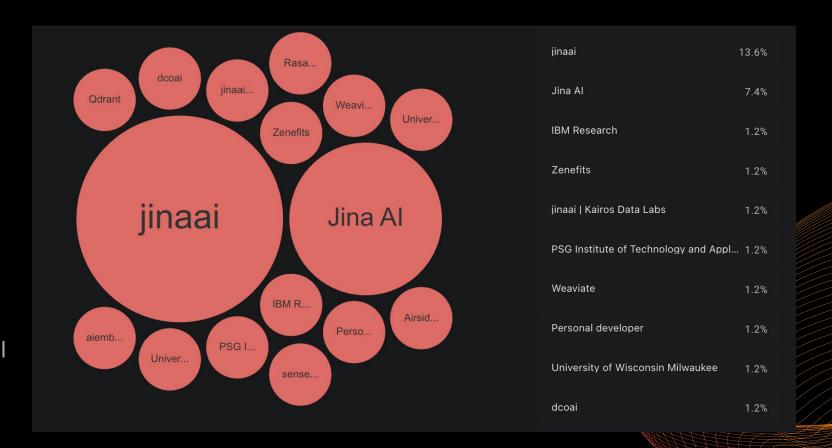


- Alipay
- Alibaba
- Apple
- AWS
- Bilibili
- Bytedance
- CERN
- Fudan University
- Google
- Microsoft
- Tencent



Contributions from more diverse companies

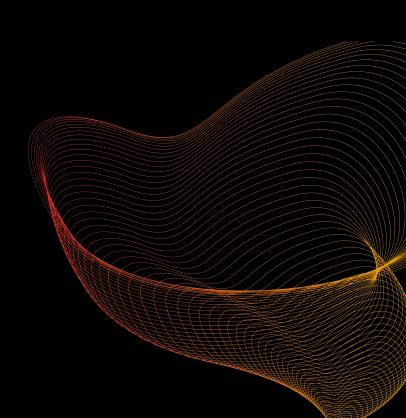
- Top organizations
 - Jina Al
 - IBM Research
 - Weaviate
 - Qdrant
 - Redis
- PRs from Jina Al
 (90%→21%)
- Issues from Jina AI (43%→13%)





Major features during incubation

- Milvus integration (LFAI & DATA graduated project)
- Epsilla integration
- JAX integration
- Migration to PyDantic v2





Technical Steering Committee

TSC voting members

- Alaeddine Abdessalem
- Han Xiao
- Joan Fontanals Martínez (Chair)
- Johannes Messner
- Nan Wang
- Sami Jaghouar

TSC Events

- The TSC meeting is hold every month
- Public communication on Discord
- Public summary on Notion





Gold OpenSSF best practice Badget





Contributions to the OSS community in 2023

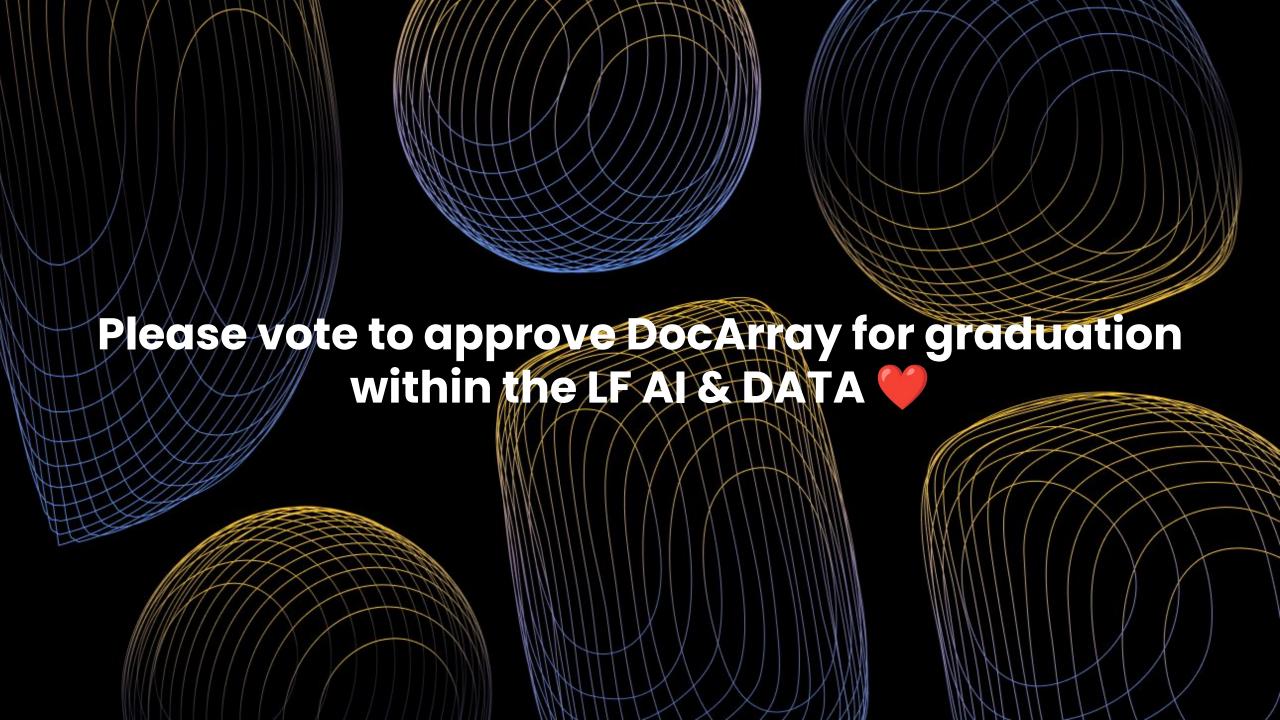
- Presentation at GSoC 2023 Mentor Summit
- Presentation at PyCon US 2023
- Top-5 VectorStores used on LangchainSmith





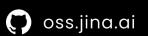
Graduation Summary

- Joined incubation: July 2023
- Contributors: 72 contributors
- Involved companies: Jina AI, Weavite, IBM, Qdrant, Redis, Epsilla and etc.
- GitHub Stars: 2.7k
- Commits: 58 commits per week in the past 12 months
- OpenSSF Best Practices Gold Badge
- Governance and Procedure (TSC, Documentation for Contribution Guide, Charter)
- LF AI & DATA Collabration (Milvus)





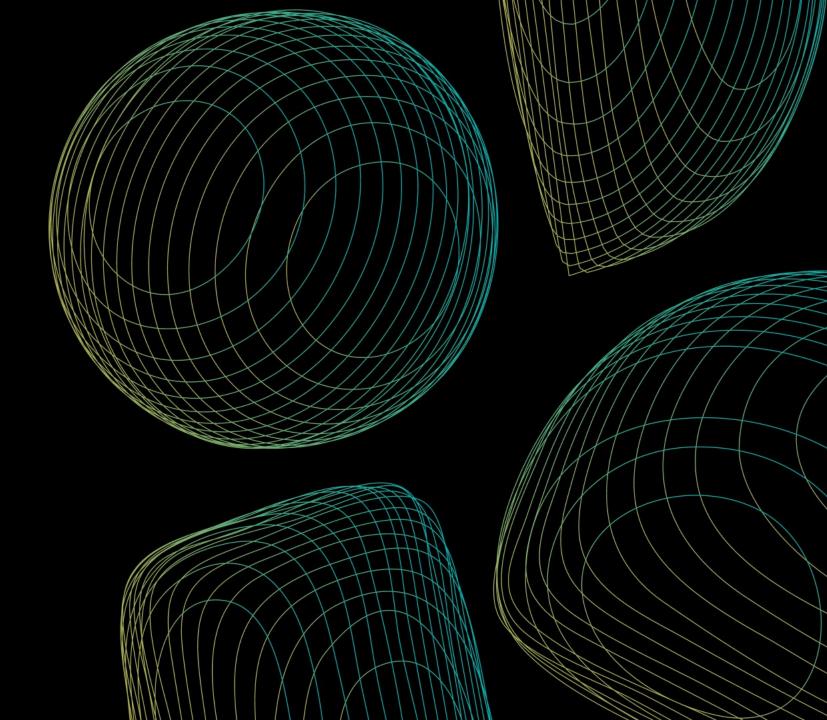
Thank you



🤣 jina.ai

discord.jina.ai

X @JinaAl_



Voting - Graduation of DocArray

Proposed Resolution:

The Technical Advisory Council of the LF AI & Data Foundation approves the graduation of the DocArray project.



Next Steps

- Following the LF AI & Data processm graduation requires board approval.
- We will add the DocArray graduation on the Board's call for March.
- Upon Board approval, LF AI & Data staff will promote the project to the Graduation stage and promote this new milestone.



Generative AI Commons Updates Matt White



Updates

- Generative AI Commons membership now at over **120 active participants** and 60 member companies
- Collaborating with other foundations and initiatives including FINOS, OSI and NIST AI Safety Consortium.
- Created 5th workstream for Responsible AI with members from the Trustworthy AI Committee to address issues of safety, security and responsible AI development and usage
- Model Openness Framework white paper in final draft, scheduled for release mid February
- Grass roots member RWKV released <u>Eagle 7B RNN model</u> outperforming all other "open" models on multilingual benchmarks
- Initial stages of working on **World Dataset project** with RWKV (50+ language dataset, high quality human generated multilingual culture-preserving data. Translation without English as an intermediate language)
- Registered for Google Summer of Code to mentor participants and encourage open-source development.
- Launched Generative AI Commons website (https://genaicommons.org)
- Held events at AI.DEV (now AI_DEV) in mid December with talks from members and an after hours event



UCSC HCI MS Program

Yassi Moghaddam



HCI MS @ UCSC Baskin School of Engineering

- Educating the next generation of HCI/UX
 Design/Research professionals at the intersection of Technology, Art, Business, Generative AI, and responsible innovation
- Industry Engagement, a cornerstone of our program
- Based in Silicon Valley, Baskin School of Engineering
- Students backgrounds: CS, cognitive science, psychology, social sciences, & more
- Student cohort: Class of 22, 11; Class of 23, 22; Class of 24, 28 (current cohort)
- World-class academic rigor as well as real world practice

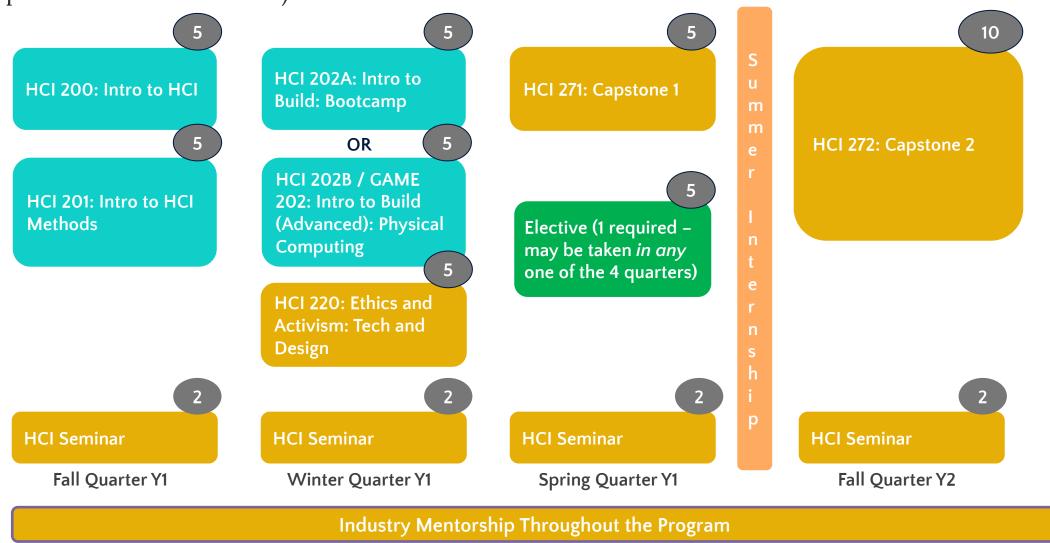


HCI Professional MS Curriculum

Touchpoints with industry

Credits -48, total

(4-quarters over 15 months)



Capstone Project Courses

Students teams (3-4) work on a sponsor design challenge for 2 consecutive quarters (Spring and Fall).

• Spring (5 credits):

- Students explore problem space, perform user research and make design recommendations.
- Time required outside of class: 15 hours/week.

• Fall (10 credits):

- Design and develop prototypes, iterate, get sponsor feedback, provide a final design
- Time required outside of class: 30 hours/week.

Value proposition to sponsors

- Team of 3–4 graduate HCl students for the work of 1–2 summer UX interns.
- Pipeline of HCI talent from capstone projects to internships to jobs.

Sponsor Commitment

- Submit a UX/HCI challenge
- Meet with their student team ~ 30-60 min/week over the spring and fall quarter
- Attend the students interim and final presentation (June and Decrespectively)

Industry Partners







Capstone Project 2023

Accenture



Generative AI for Assistive Decision Making in Healthcare

Keysight Technologies



Redesign UX for a R&D Measurement Instrumentation Product

Microsoft



Accessible Interface for data standardization in biomedical research

IBM



Accessible UX to enable non-technical user train and fine-tune foundational models (Ex:GPT)

Mastercard



UX design for an internal platform to improve the employee learning and development experience

Nvidia



Design a Trustworthy & Assistive AI Chatbot to enhance employee experience



Capstone Projects 2022

Mastercard



UX/UI design for an internal platform to enhance employees experience for information retrieval across the enterprise

Truist Financials (10th Largest US Bank)

TRUIST H

UX/UI design for a community-focused literacy platform

Mozilla Foundation



Improving multilingual user experience for Mozilla Common Voice

ISSIP (Non-Profit Organization)

UX/UI design for issip.org



DCO.com (Startup): Digital platform to manage video content

- 1. Design UX/UI for applications in media and entertainment
- 2. Design UX/UI for applications in education and research



Industry Advisory Board - Computational Media

Goal - Foster industry partnerships to:

- Enhance curriculum relevance to better prepare our students for exciting careers in computational media
- Explore joint research & teaching opportunities
- Offer access to underrepresented populations in Computational Media



















Thank you!

Yassi Moghaddam +1 (408) 318-0332

yamoghad@ucs.edu

https://hci.ucsc.edu/

https://www.linkedin.com/in/yassimoghaddam/

Open Discussion



Upcoming TAC Meeting: March 7th

If you have a topic idea or agenda item, please send agenda topic requests to tac-general@lists.lfaidata.foundation



TAC Meeting Details

TAC Biweekly Meeting LF AI & Data

Ways to join meeting:

1. Join from PC, Mac, iPad, or Android

https://zoom-lfx.platform.linuxfoundation.org/meeting/95332329356?password=c708f2ee-fb78-4a12-91a3-47daa19b708f

2. Join via audio

One tap mobile:

US: +12532158782,,95332329356# or +13462487799,,95332329356

Or dial:

US: +1 253 215 8782 or +1 346 248 7799 or +1 669 900 6833 or +1 301 715 8592 or +1 312 626 6799 or +1 646 374 8656 or 877 369 0926 (Toll Free) or 855 880 1246 (Toll Free)

Canada: +1 647 374 4685 or +1 647 558 0588 or +1 778 907 2071 or +1 204 272 7920 or +1 438 809 7799 or +1 587 328 1099 or 855 703 8985 (Toll Free)

Meeting ID: 95332329356

Meeting Passcode: 040721



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