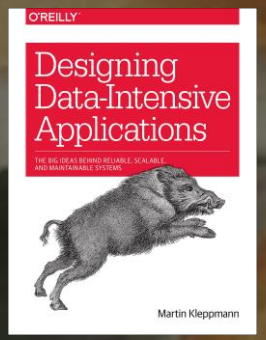
MSFT Sys Meetup



http://

Policy Against Harassment at ACM Activities

https://www.acm.org/about-acm/policy-against-harassment

MSFT Sys Meetup wants to encourage and preserve this open exchange of ideas, which requires an environment that enables all to participate without fear of personal harassment. We define harassment to include specific unacceptable factors and behaviors listed in the ACM's policy against harassment. Unacceptable behavior will not be tolerated.

Weakened Honor Code

https://web.stanford.edu/class/archive/cs/cs107/cs107.1212/handouts/3a-Honor-Code.pdf

Rule 1: You ~~must~~ should not look at solutions that are not your own.

Rule 2: You ~~must~~ should not share your solutions with other students.

Rule 3: You ~~must~~ should indicate on your submission any assistance you received.

About Me (周佳孝 Mossaka)

- I'm a Software Engineer @ Microsoft
  - Working on the Azure Machine Learning Dev Platform
- University of California, San Diego
  - B.S. degrees in Pure Math ♡ and Computer Science.
- Research background in Programming Languages
  - Static analysis, theorem proving and program synthesis
- Broad interests in the field of computing
  - System, Theory, Networking, PL, and ML/DL

About Wen (林文)

- I’m a Software Engineer @ Microsoft
  - Working on the Azure Watson (Crash and Interruption Management)
- San Diego State University
  - M.S. in Computer Science
- Broad interests in the field of computing
  - System, High Performance Programming, Design and DevOps

Why MSFT Sys Meetup?

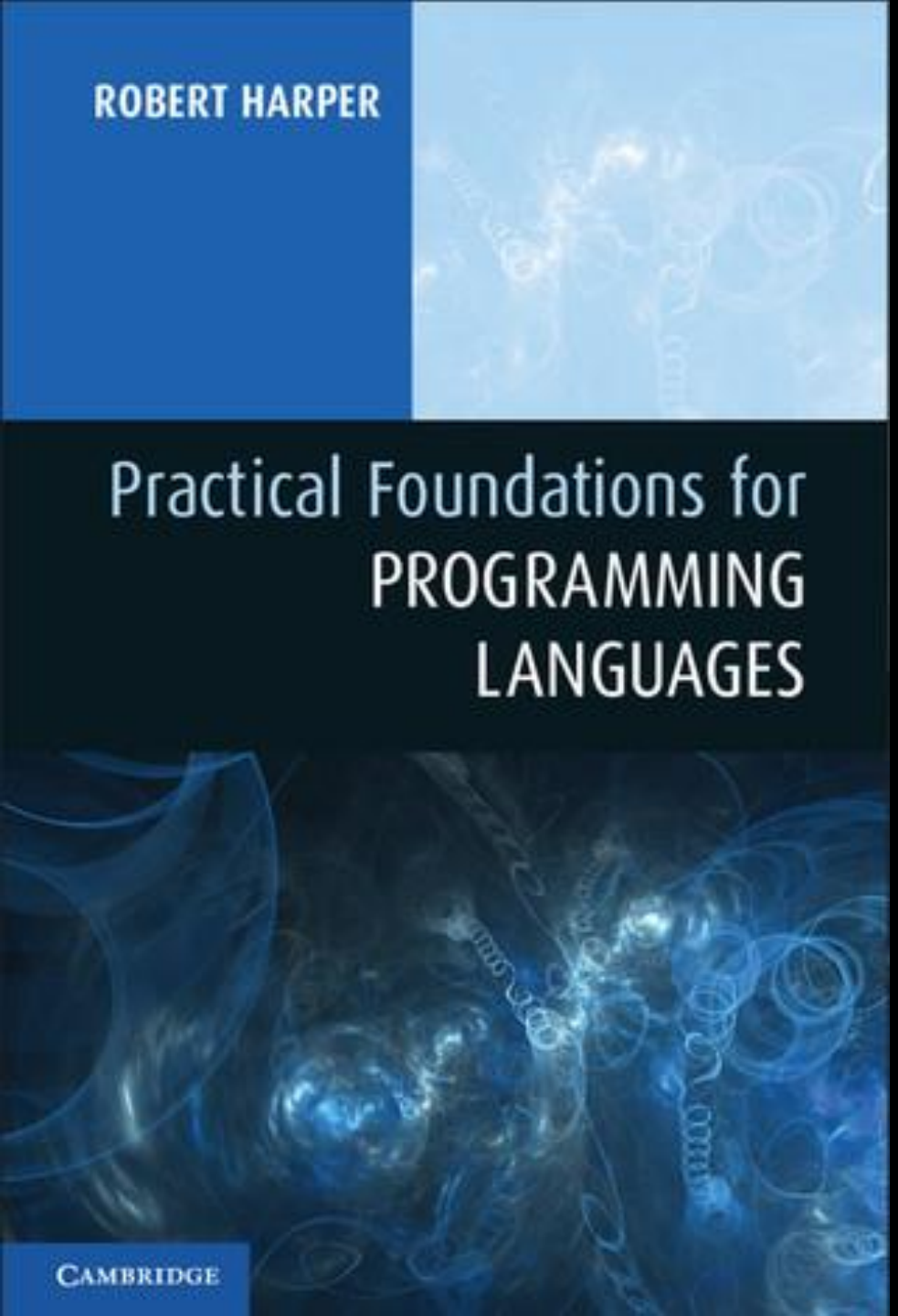
The Philosophy:

1. Reading
2. Listening
3. Demonstrating
4. Teaching
5. Openness

This meetup should serve as an opportunity for you to teach us something challenging; as a place to discuss or debate about something in detail; as a motivation to learn by doing. Everything served in this meetup is open to everyone with a few exceptions. You **MUST NOT** talk about company-owned sensitive information. If you want to discuss about things related to Microsoft, please join the MSFT Sys Meetup in Teams.

The goals of Sys Meetup

1. Know the concepts
2. Know the algorithms
3. Know the system design trade offs



What I've learned from PFPL meetup

Invitation sent to five 500 groups

50 people + in the discord channel

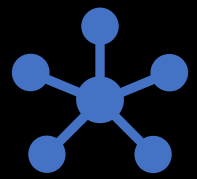
7 people showing up in the first meetup

4 people consistently showing up

Excitement eases quickly.

The rest is all about dedication.

The structure of Sys Meetup



PHASE 1: DISTRIBUTED SYSTEM BY MIT 6.824

PHASE 2: SOFTWARE ARCHITECTURE

PHASE 3: …

Why MIT 6.824


想一起看的书，视频，博客，项目?

8 responses

6.824 lecture

MIT 的分布式系统，DDIA

MIT 6.824

Kubernetes/Docker

coursera

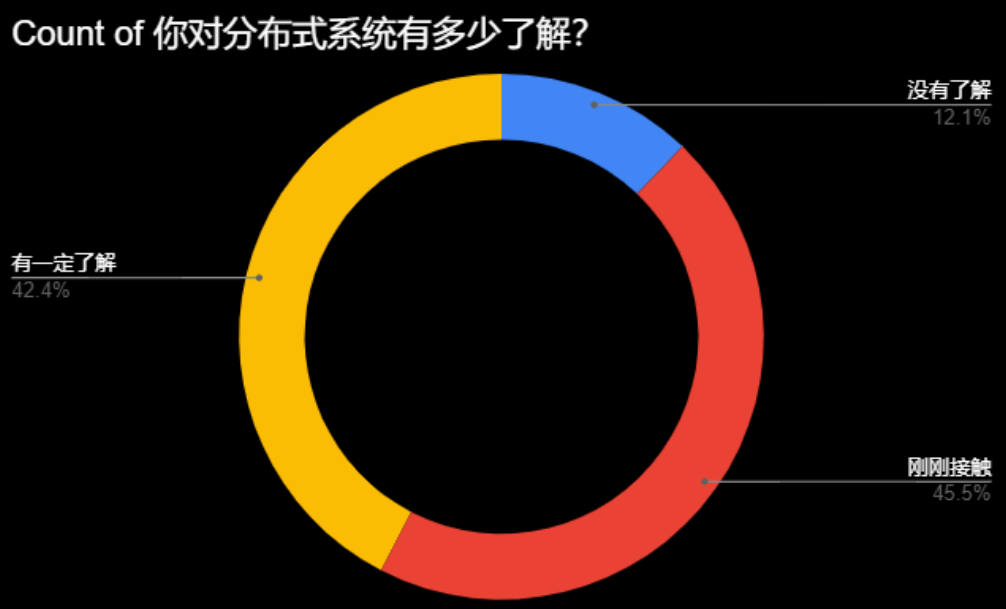
https://github.com/ray-project/ray

DDIA, Designing Distributed Systems, 有点感兴趣学习multiplayer game的distributed design

MIT CS6.842

1. Video lectures
2. Lecture notes
3. Labs
4. Paper
5. FAQs
6. Final Project

Prerequisite?



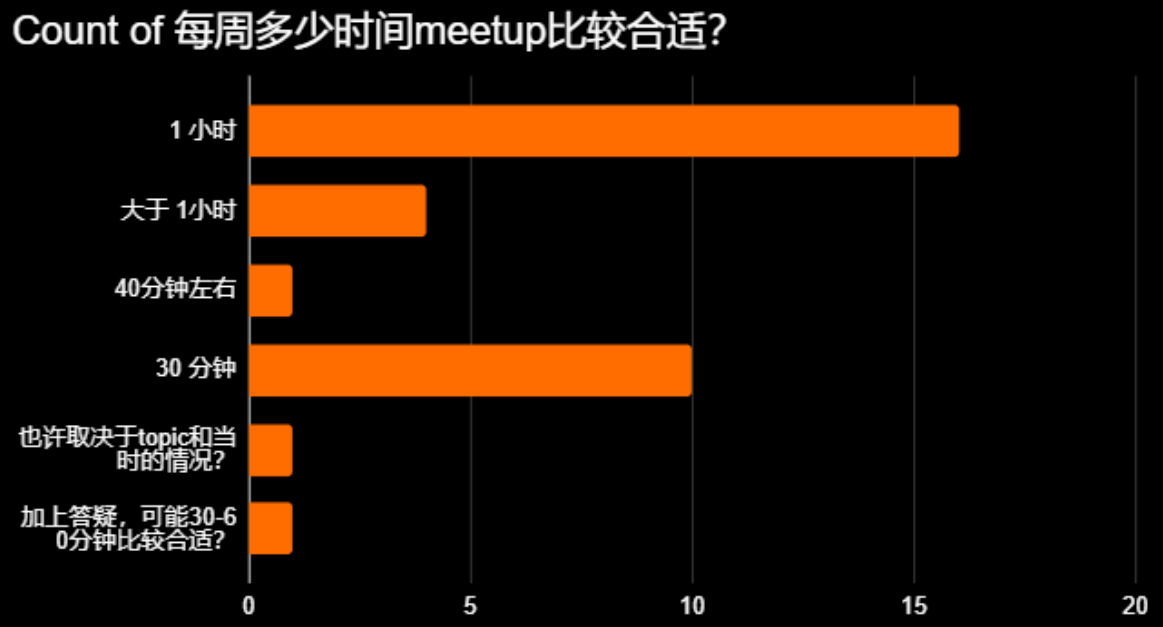
One of

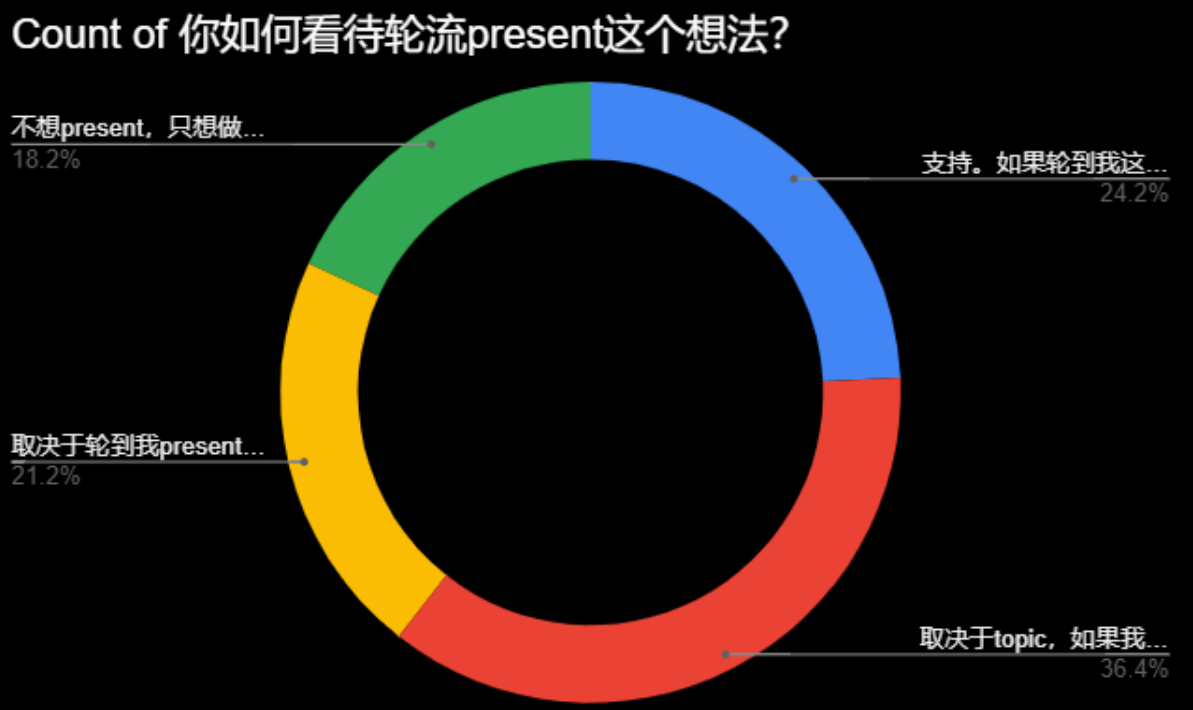
1. Operating System
2. Computer Architecture

Assume you know:

1. Threads vs Processes
2. Synchronization & Concurrency vs Parallelism
3. Memory, caching & file system
4. Basic understanding of how Internet works

The format of MSFT Sys Meetup





The format of MSFT Sys Meetup

1. 45-60 minutes meetup per week on Saturday 6:30 p.m. PST
2. Volunteers signing up for topics to present
3. 1 paper + 1 video per week.
4. (Recommended) prepare 3 questions for the paper and upload to *Notion*
5. GitHub Education for programming labs.
6. You can sign up for the meetup that talks about labs.
7. Final project: 3-4 people work together
8. Each talk will be recorded, and uploaded to a private YouTube playlist

Nothing is obligatory. Come and leave anytime.

If you sign up for the topics, here are the recommendations:

Please introduce yourself at the beginning

What do you like?
What's your background?
What is the project you most proud of?

Please do prepare for the talk. Know what you're talking about.

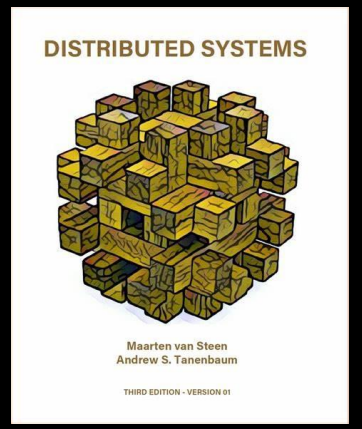
Please allow 5 minutes to go through the paper questions

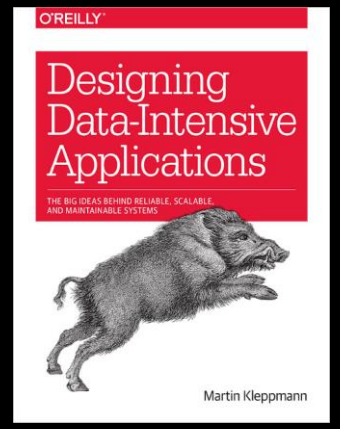
If there is a lab meetup, 2 people can sign up and divide the presentation.

If you can't present, please let me know 48 hrs. in advance.

Be openness for the questions

Freely accessible resources





[Code]

[Zoom]

[Course]

[DDIA (O'Reilly)]

[Distributed System 3rd edition]

Calendar: https://docs.google.com/spreadsheets/d/1RsbGpq1cwNSmYn5hcmT8Hv5O4qssl2HXsTcG82RHVQk/edit?usp=sharing

(Internal) Teams: g078pwd

(Public) Discord

(Public) WeChat: add mossaka or Lin1991Wen

Notion: https://www.notion.so/invite/cd6df70a94e7f67f6d21f4c509783d3c9cfd0e69

YouTube: https://www.youtube.com/playlist?list=PL1voNxn5MODMJxAZVvgFHZ0jZ-fuSut68

Next week

1. **Sign up your talk in calendar**
2. Watch https://pdos.csail.mit.edu/6.824/video/1.html
3. Read https://pdos.csail.mit.edu/6.824/papers/mapreduce.pdf
4. Read https://pdos.csail.mit.edu/6.824/notes/l01.txt
5. Submit paper questions to *Notion* *https://pdos.csail.mit.edu/6.824/questions.html*
6. Start working on lab 1 https://pdos.csail.mit.edu/6.824/labs/lab-mr.html
7. Read Chap 1 (Steen) OR Chap 1 (Kleppmann)

Questions?