

IOWA

CS5630

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# Reflections on Cloud Computing

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*Computer Science*  
*The University of Iowa*

# Lecture goals

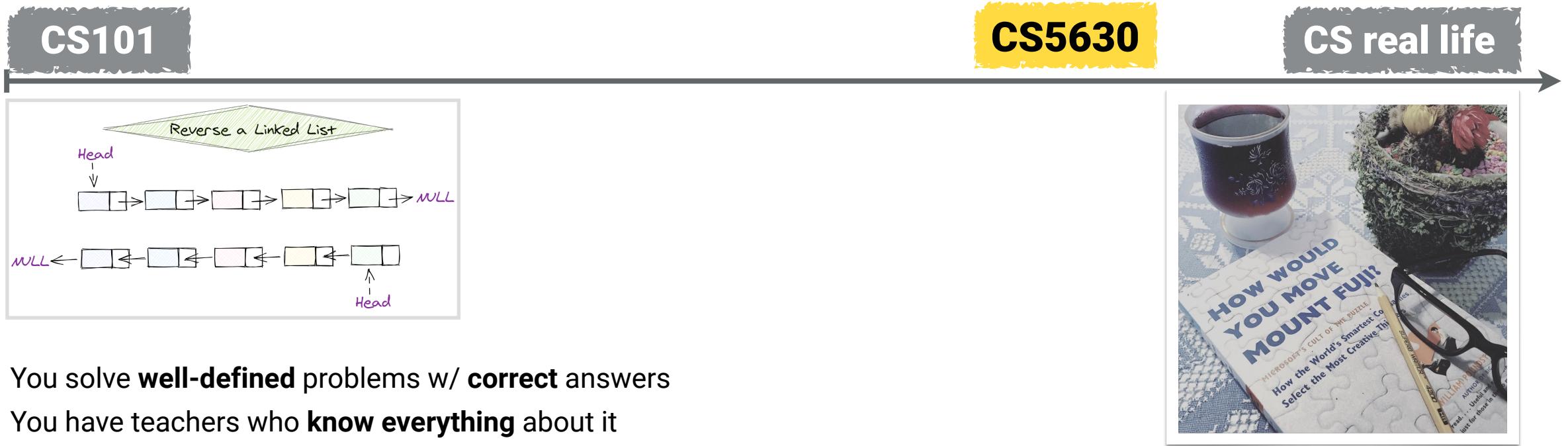
A look back (and forward) at a semester of cloud computing

- Administrivia and grades
- Reflect on our technical learnings
- Ask-Me-Anything (AMA)



wombo.art

# Understanding CS5630 (or Why we did what we did?)



Climate change  
Autonomous vehicles  
Misinformation / fakenews

# Understanding CS5630 (or *Why we did what we did?*)

## Foundation lectures

Start from core systems (3620, 3640) and bridge our knowledge towards fundamentals of cloud computing

## Guest lectures

Public cloud computing is only 15 years old!  
Heard directly from cloud experts; interacted with them live

## Research papers

- Understand the (past/future) evolution of cloud
- Learn to read and digest research papers
- Able to analyze, present, and review scholarly work

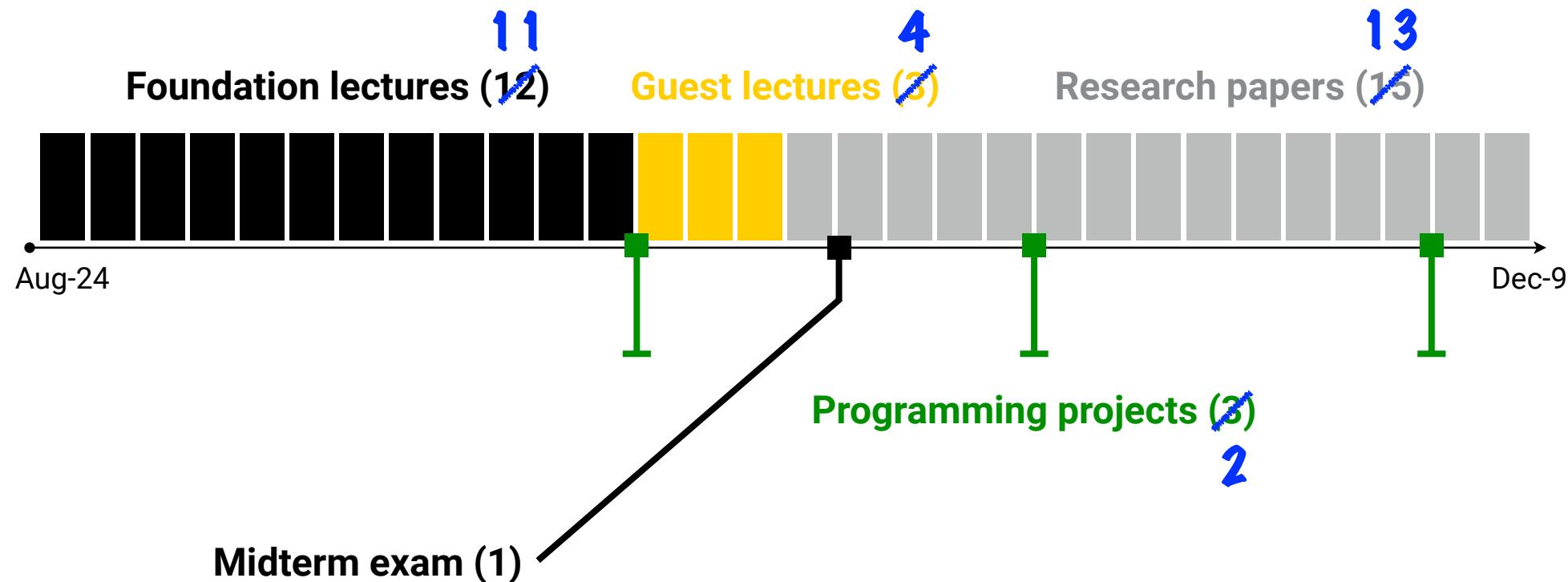
## Programming Projects

**Taste of real world. For e.g., determine the Hadoop job runtime**

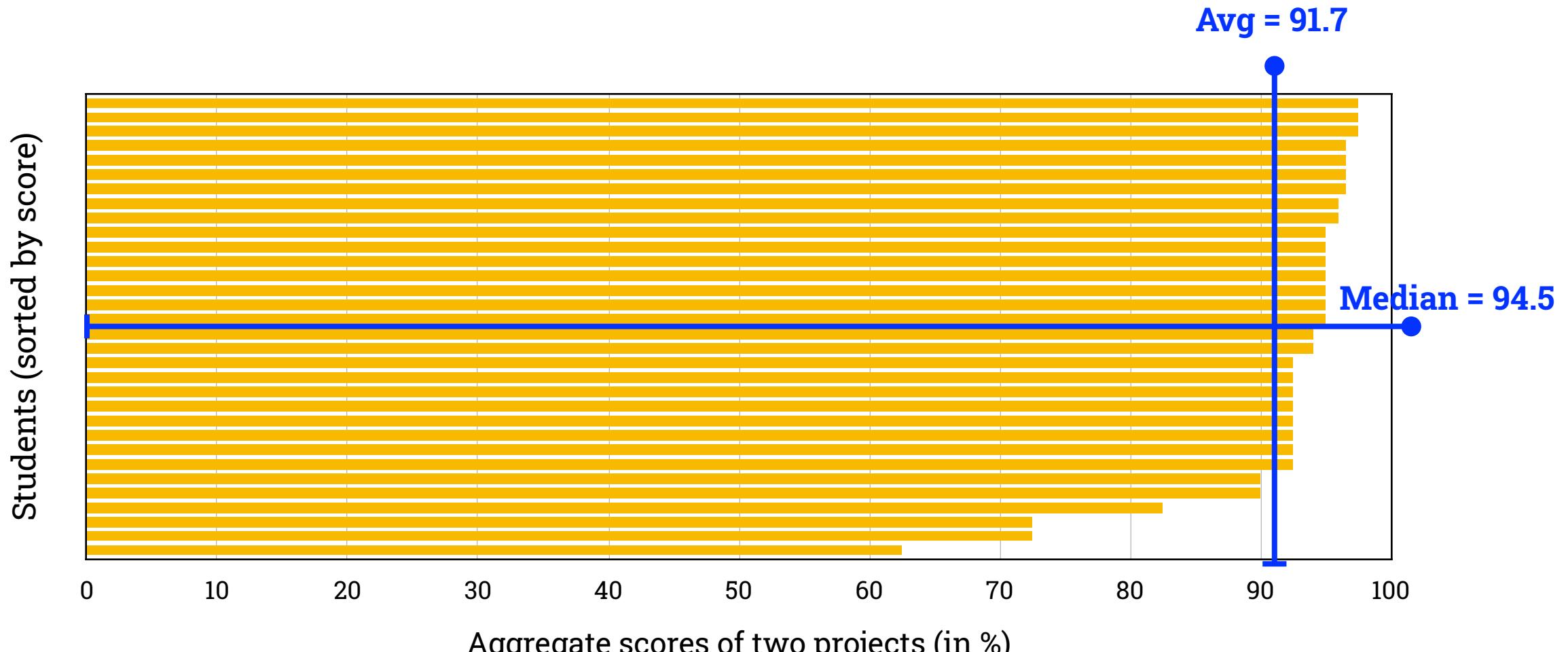
- I used information printed in the Hadoop output logs
- I configured YARN resource manager daemon
- I appended LINUX date command before and after Hadoop CLI
- I modified the Hadoop instrumentation code to print time

# Course Structure (as planned and *how it played out*)

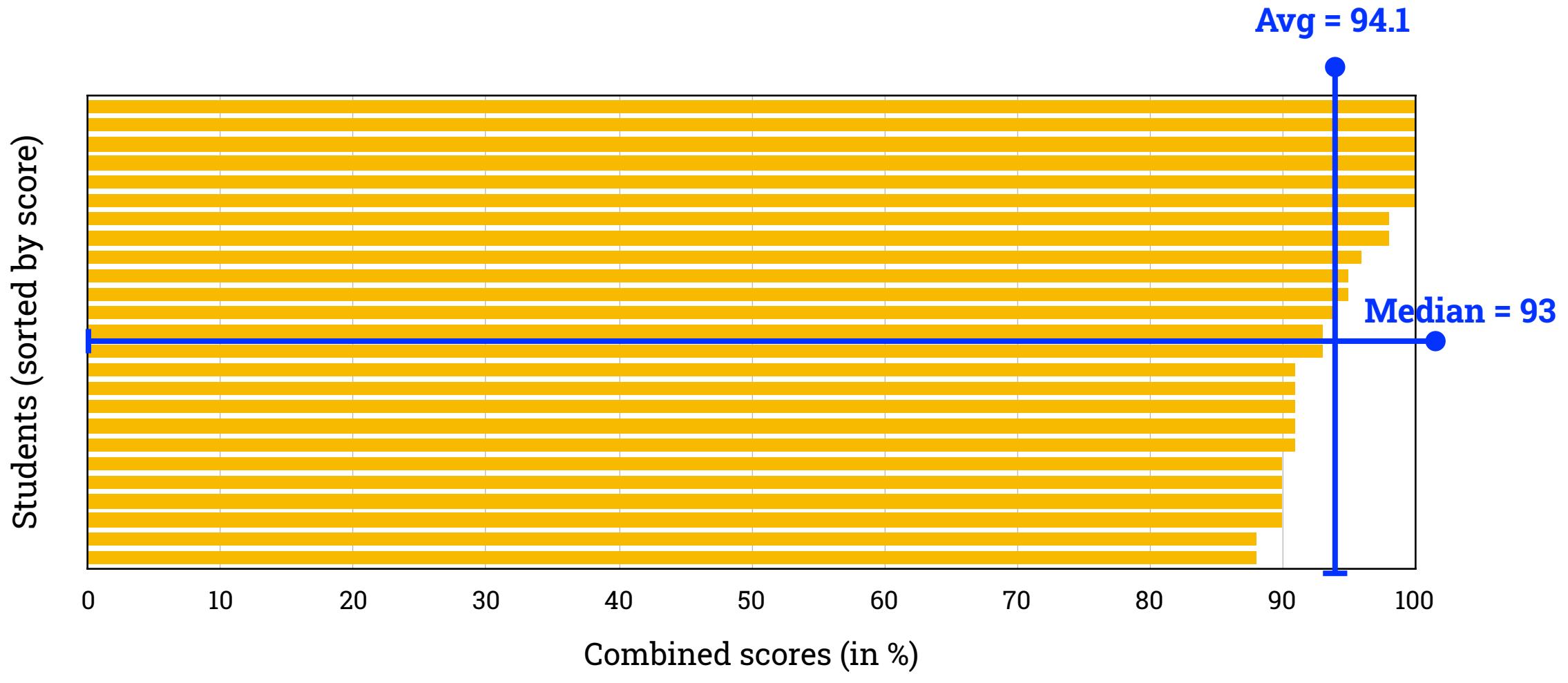
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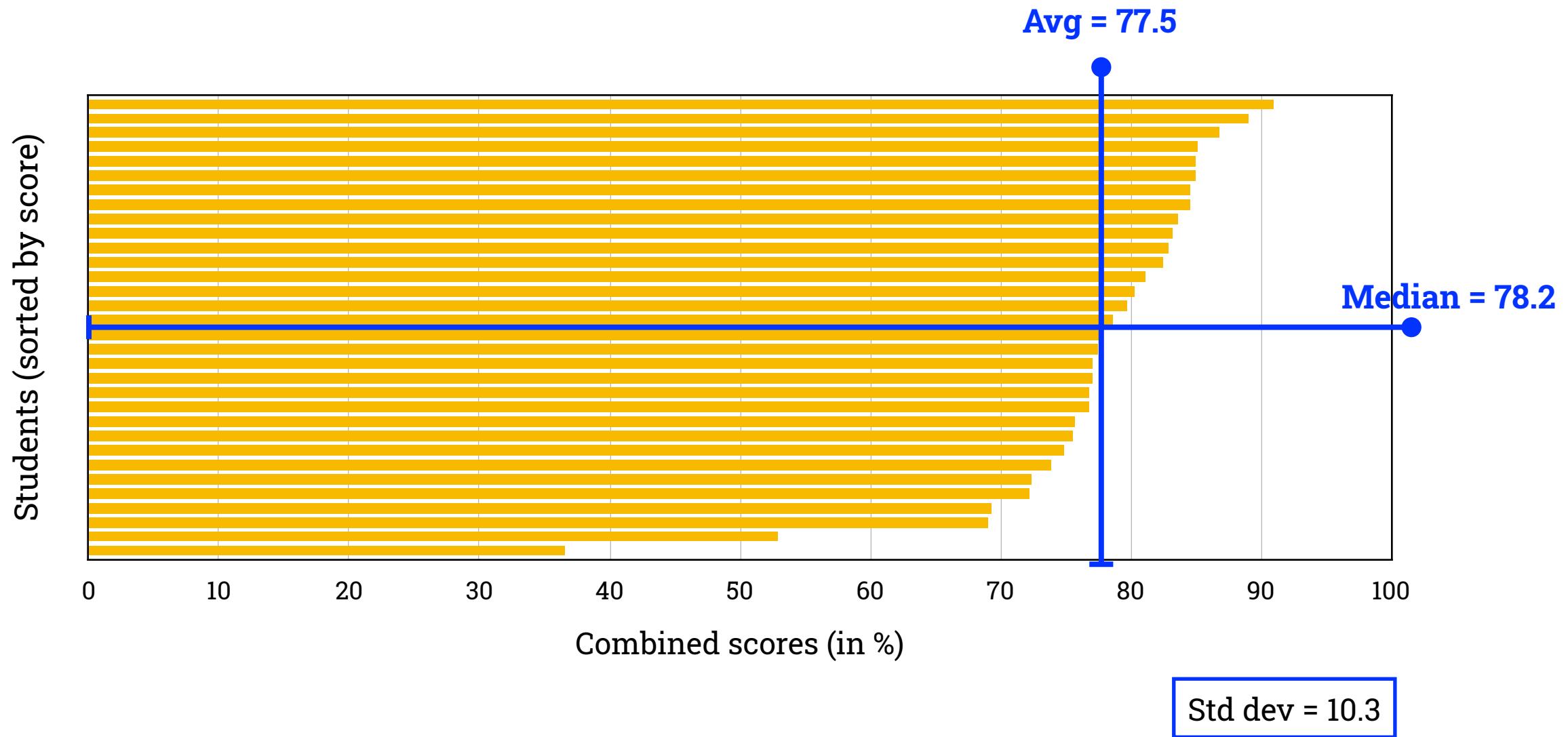
# Grade Distribution - Projects 1 and 2



# Grade Distribution - Papers



# Grade Distribution - Spot quiz



# Grading

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## Grade allocations

Type	Number	Weight
Spot quizzes (in class)	20	20%
Midterm exam	1	25%
Paper Presentation	1	25%
Programming Projects	2	30%

## Course grades

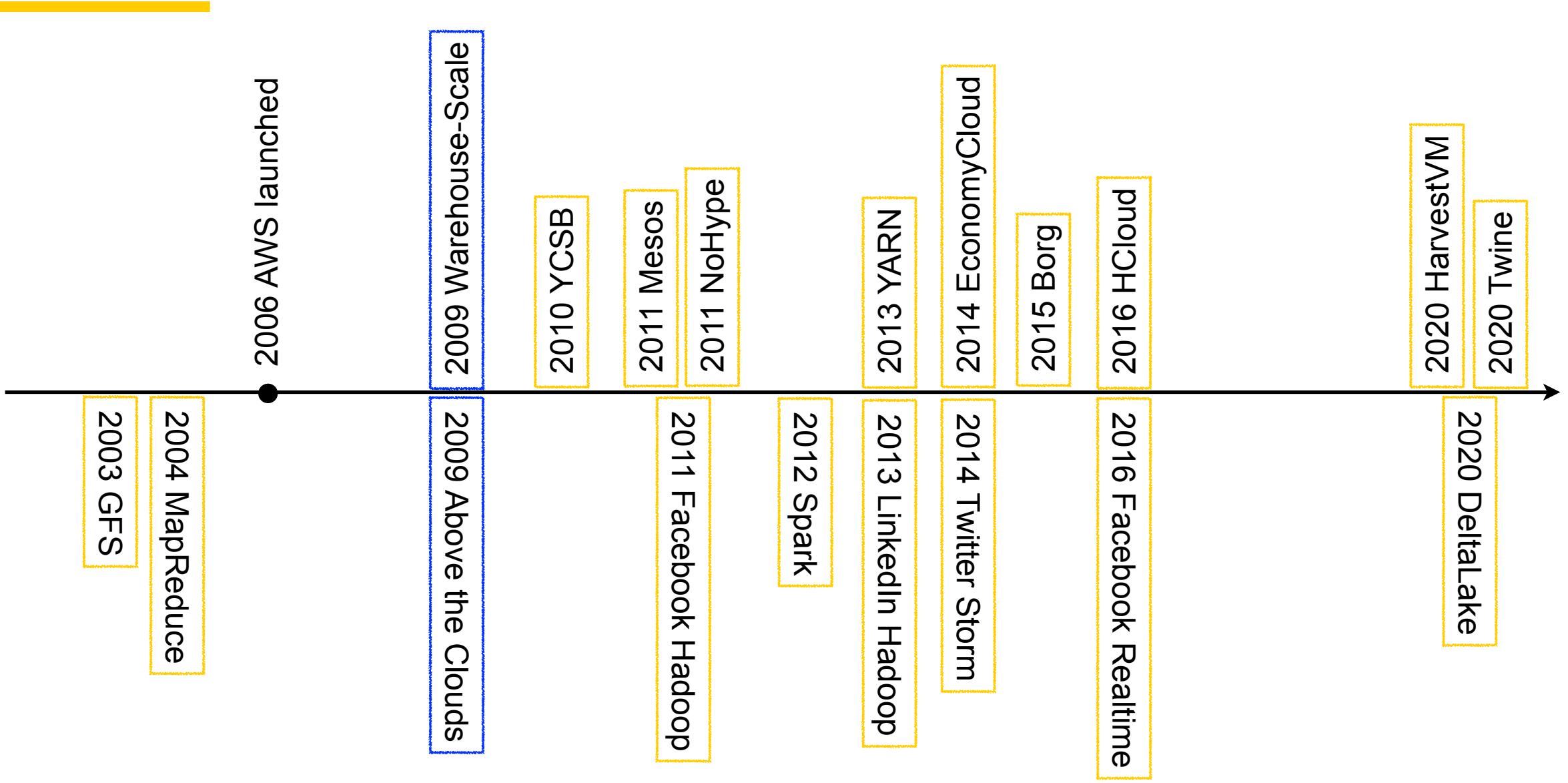
Final Grade	Cutoff
A	90%
B	80%
C	70%
D	60%
F	<60%

*75% of the class is in this zone*

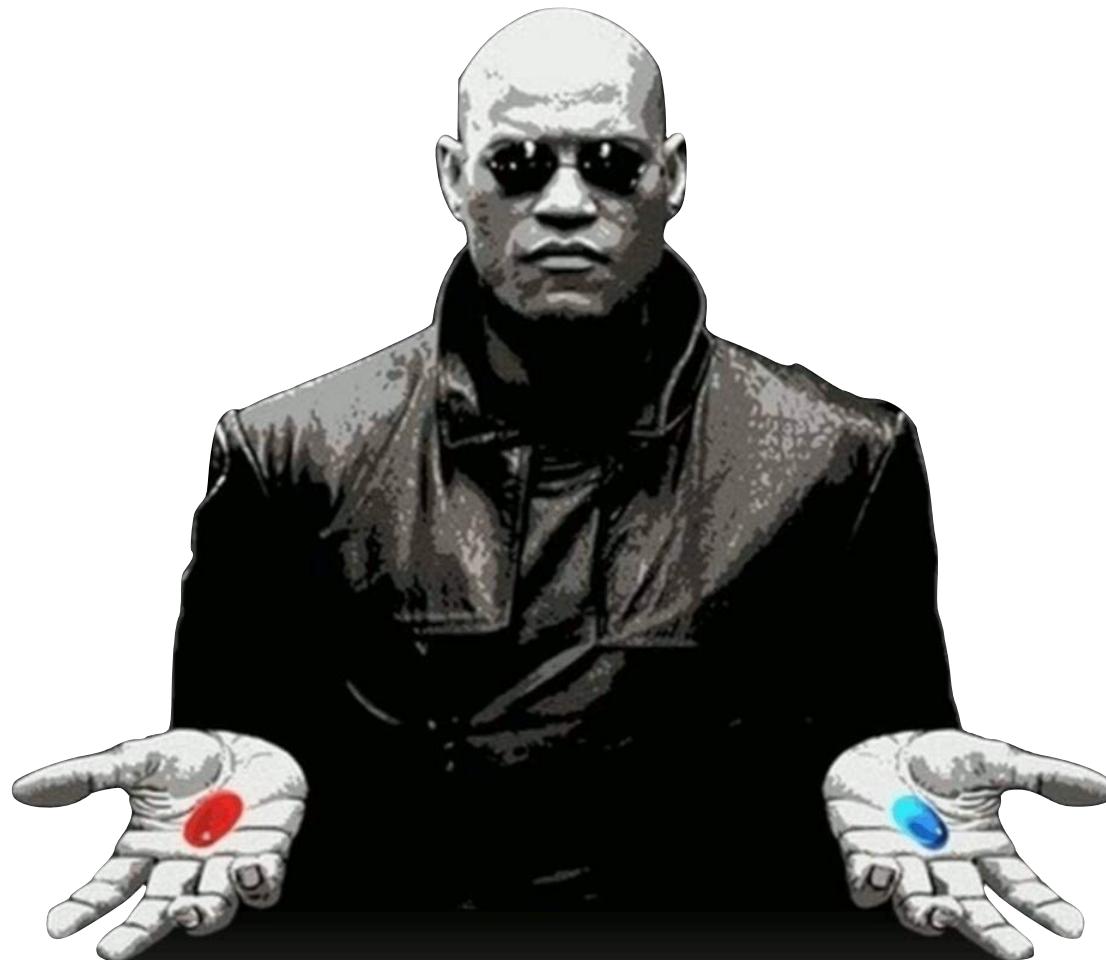
- We will use +/- grading
- We will not curve the grades

# **Cloud Research and Engineering**

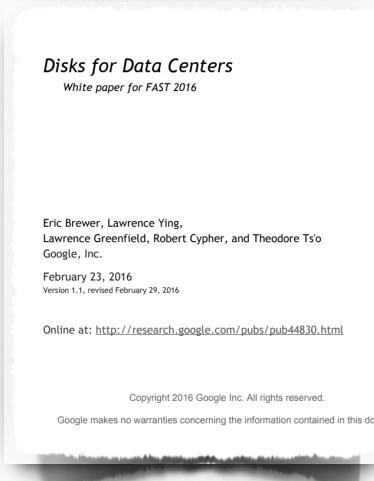
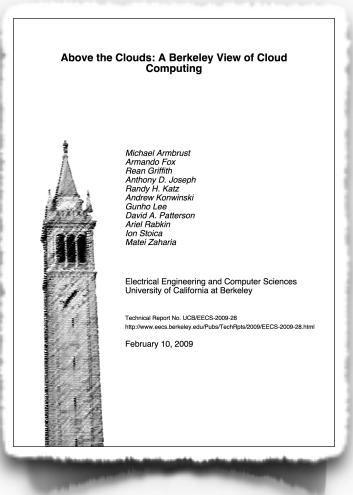
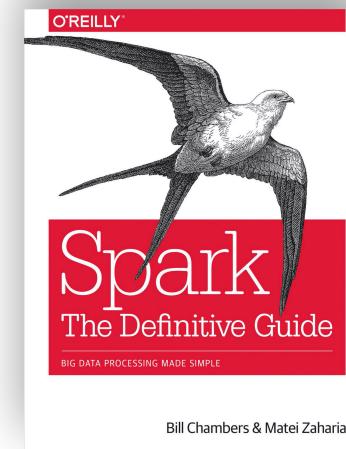
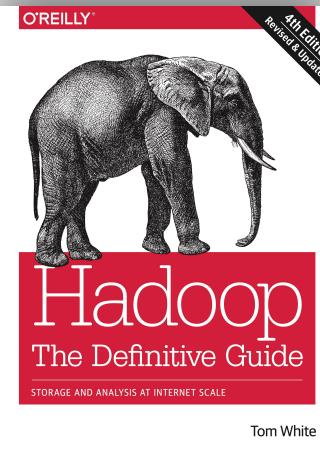
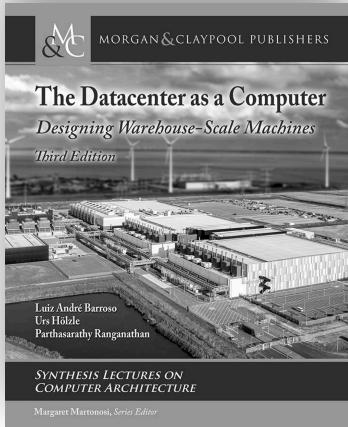
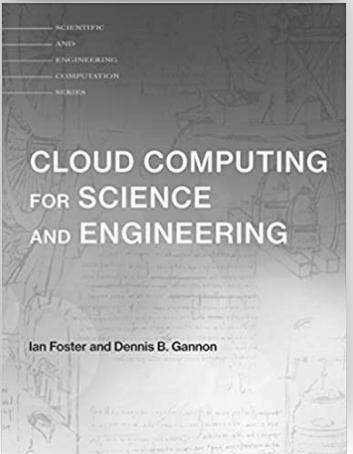
# Timeline of everything we learnt about the cloud



# Where do we go from here?



# Books and References



ACM Symposium  
on Cloud Computing

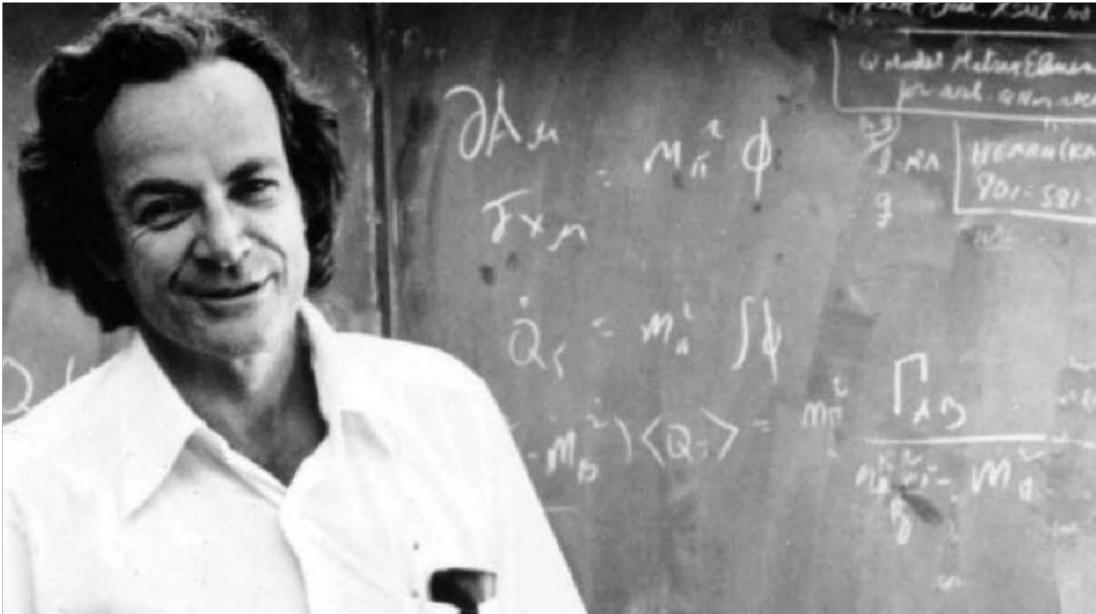
I am here to help **YOU** succeed (this course & beyond)

**Technical mentorship**  
*if you'd like to explore any topic  
on cloud, or if you'd like to work  
on a research project*

**Recommendations**  
*for your job application,  
grad school application,  
TA application etc.*

**Introductions/Referrals**  
*if you are interested in  
collaborating w/ other  
researchers*

# Reflections on our semester



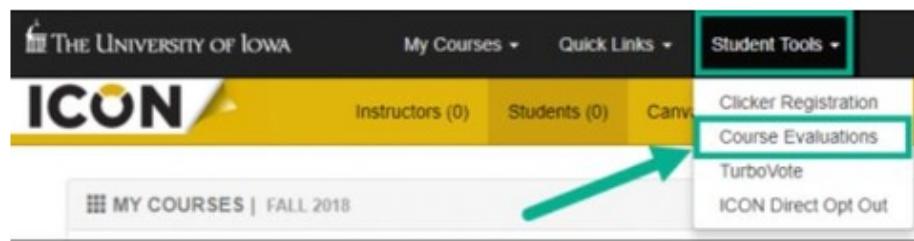
“ Students don't need a perfect teacher. Students need **a happy teacher**, who's gonna make them excited to come to school and grow a love for learning ”

– Richard Feynman

# Now it is our turn to “ACE”

## Access ACE Online from ICON:

1. In a browser (Chrome or Firefox preferred), go to icon.uiowa.
2. Drop down "Student Tools."
3. Click on "Course Evaluations."
4. Enter your Hawk ID and password.



## Access ACE Online from MyUI:

1. In a browser (Chrome or Firefox preferred), go to myui.uiowa.edu.
2. Click on the "Course Evaluations" button.
3. Enter your Hawk ID and password.

