

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)



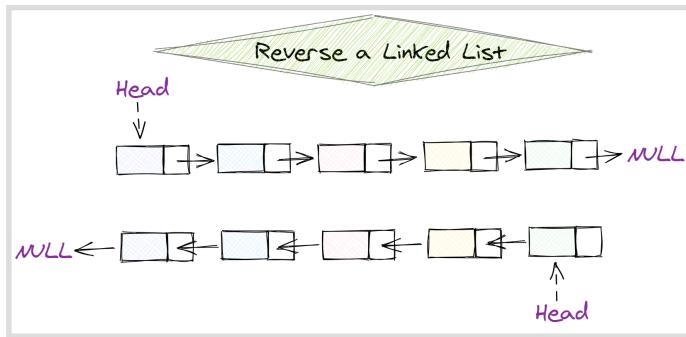
wombo.art

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

CS1

CS5630

CS real life

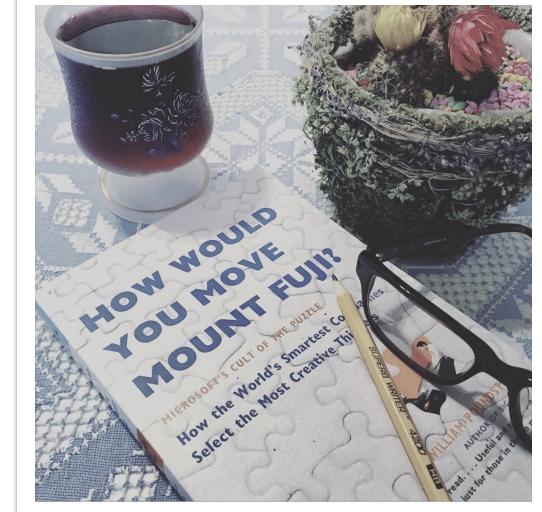


You solve **well-defined** problems w/ **correct** answers

You have teachers who **know everything** about it

Your submissions are **validated** in a **timely** manner

You *sleep well at night!*



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

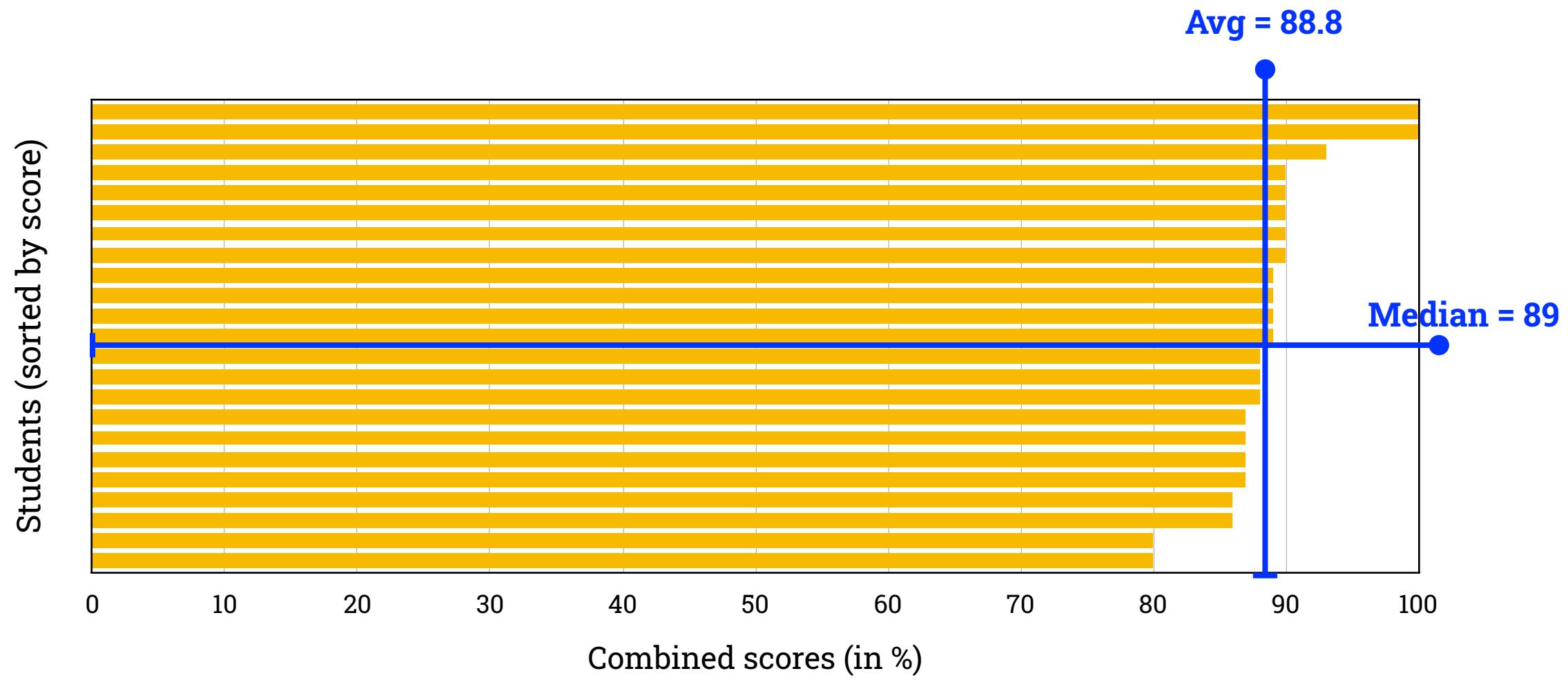
- Understand the (past/future) evolution of cloud
- Learn to read and digest research papers
- Able to analyze, present, and review scholarly work

## Programming Projects

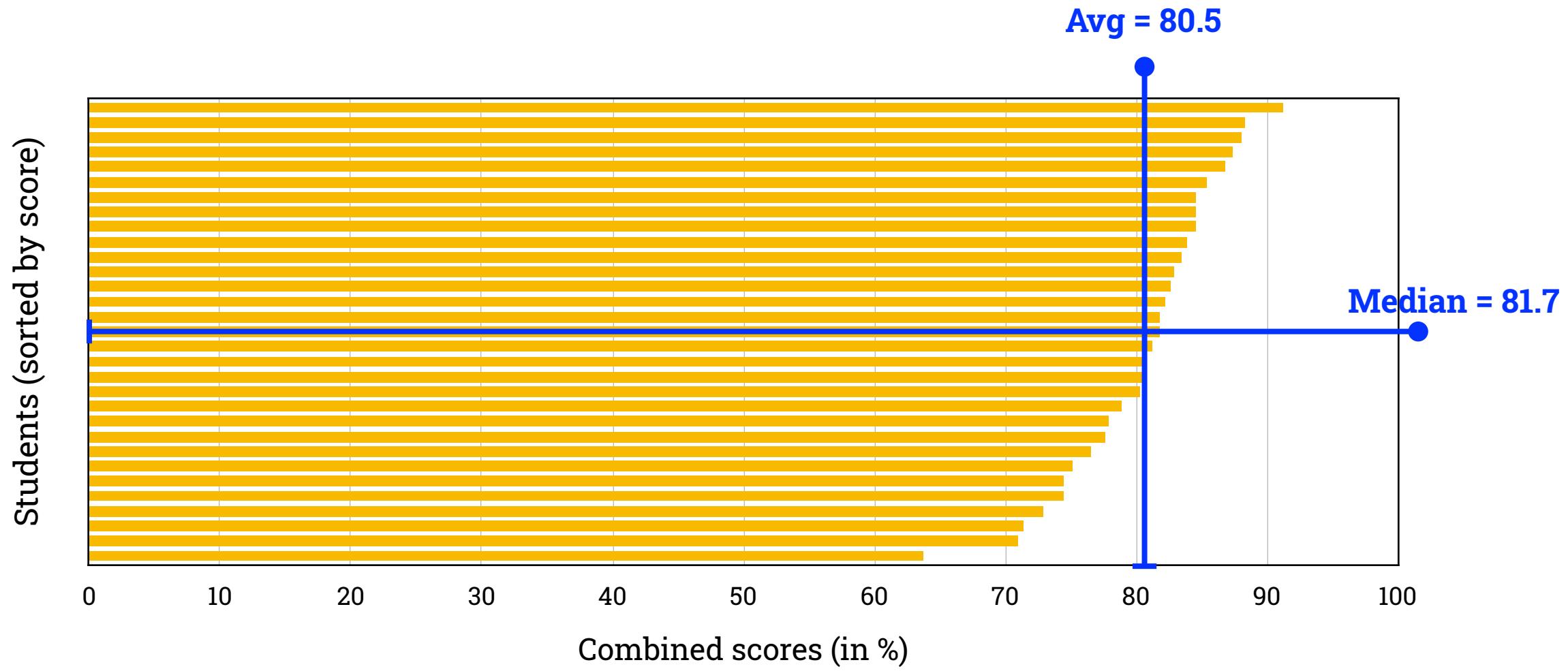
**Taste of real world. For e.g., determine the Hadoop job runtime**

- 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

# Grade Distribution - Papers



# Grade Distribution - Spot quiz



# Grading

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## Grade allocations

Type	Number	Weight
Spot quizzes (in class)	20	20%
Written exam	1	20%
Research paper	1	20%
Programming Projects	<del>3</del> 2	40%

## Course grades

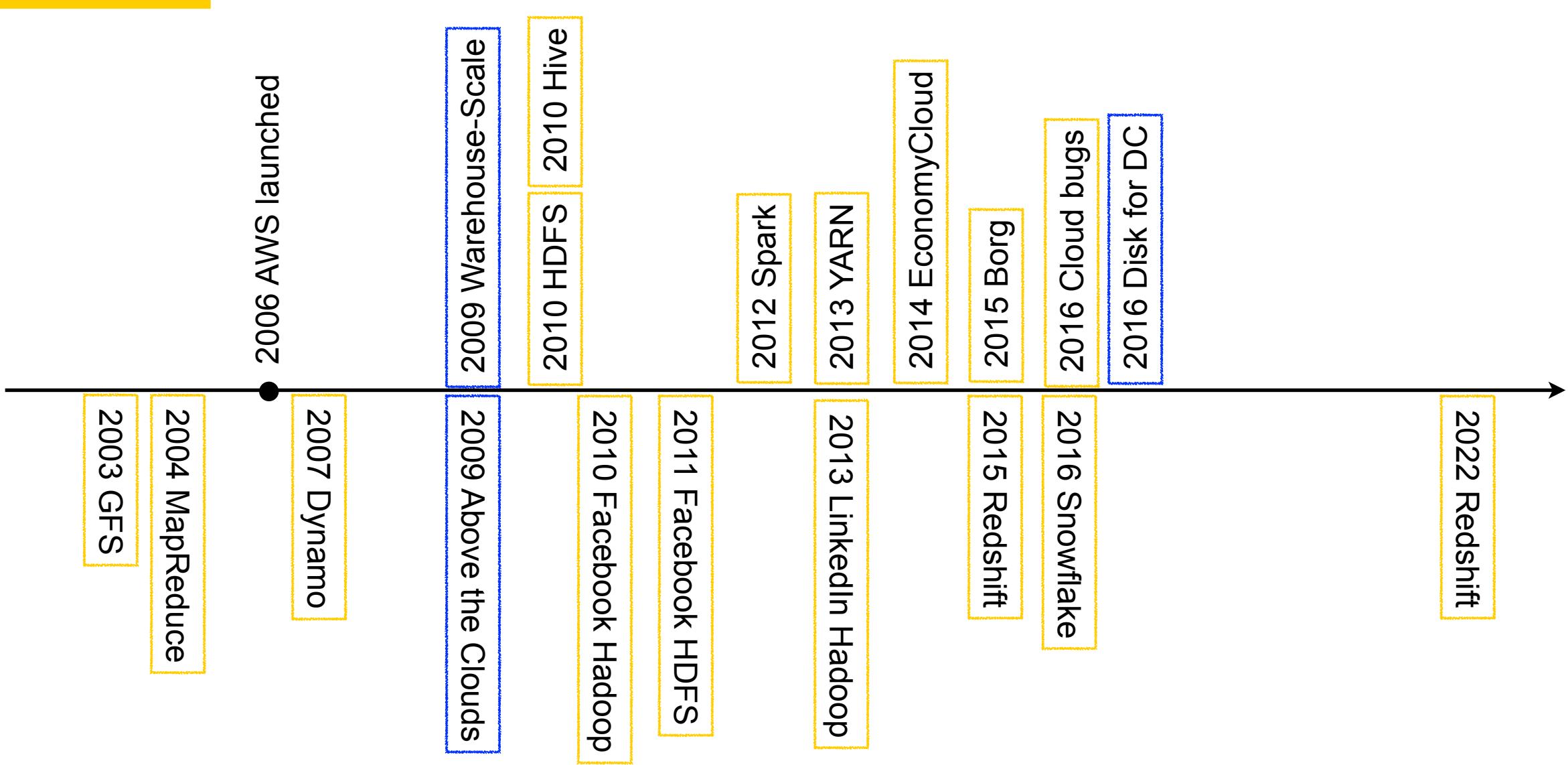
Final Grade	Cutoff
A	90%
B	80%
C	70%
D	60%
F	<60%

I expect most of you to be in this range

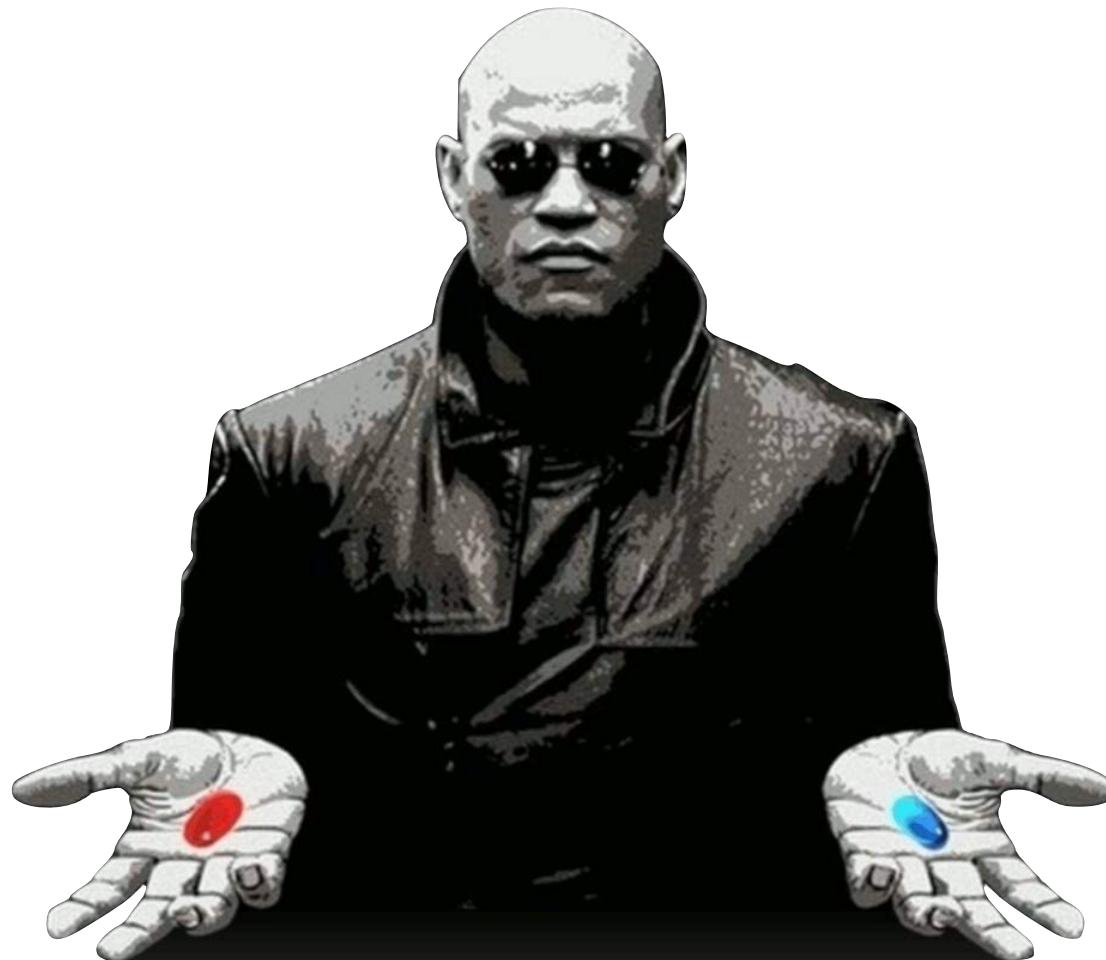
- We will use +/- grading
- We will not curve the grades

# **Cloud Research and Engineering**

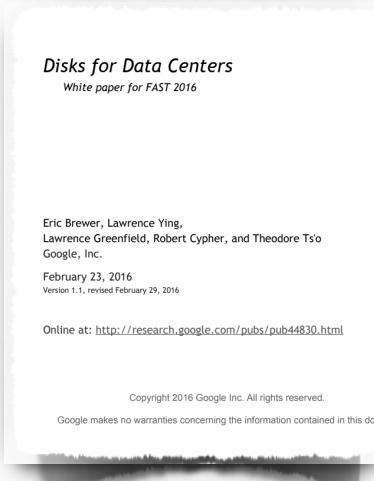
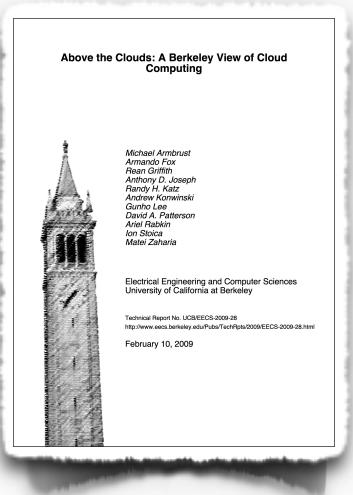
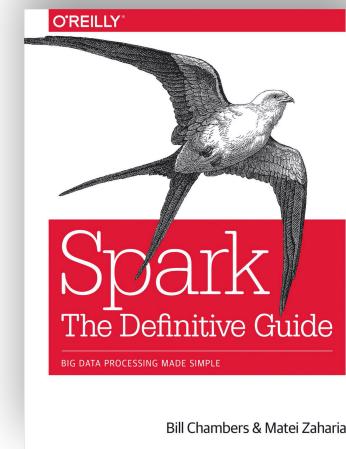
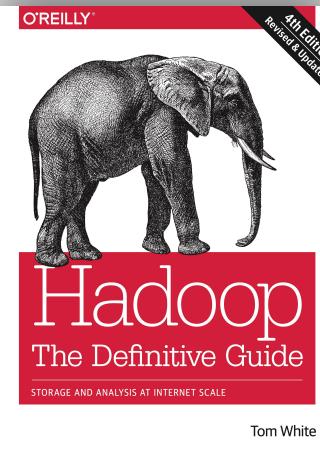
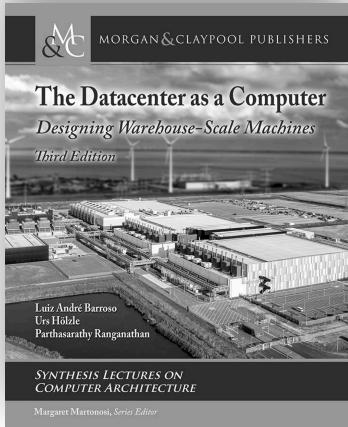
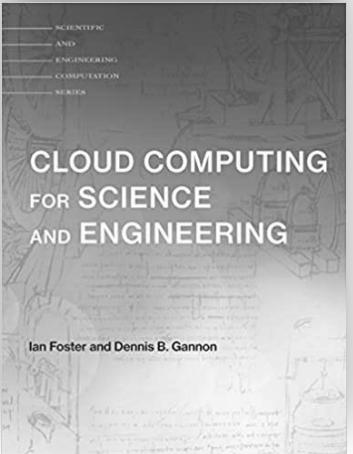
# Timeline of everything we learnt about the cloud



# 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 a topic on cloud (or data protection), or work on a research project*

Chen S (Sp 2021) → PhD at UIowa  
Stella C (Fa 2021) → MS research

## Recommendations

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

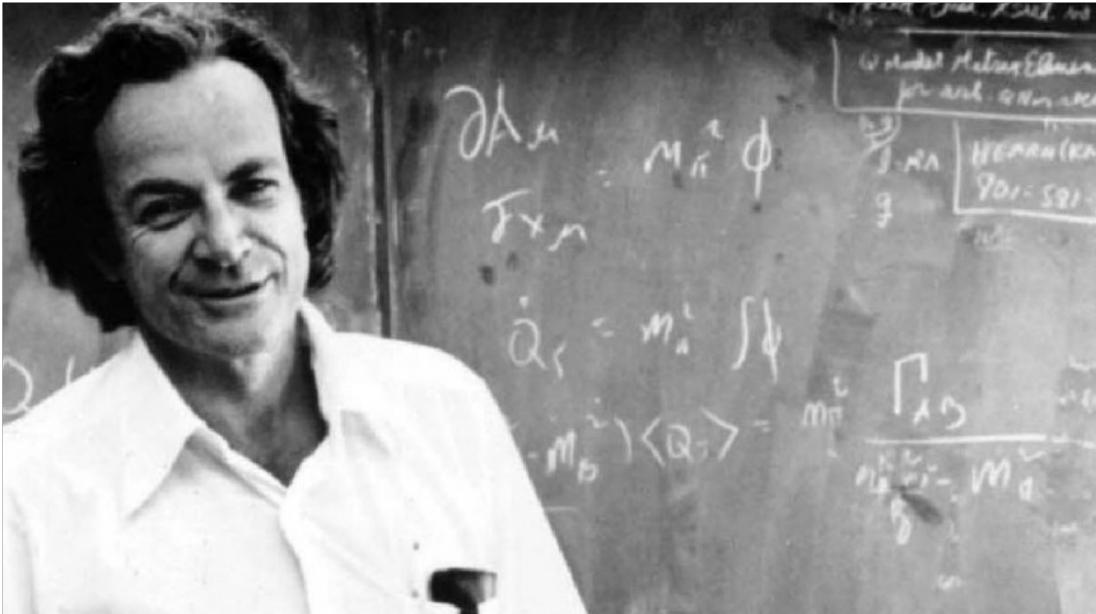
Santosh M (Fa 2021) → Adobe  
Nikhil S (Fa 2021) → EA/Uber  
Andrew D (Fa 2021) → US govt  
Xiang L (Fa 2021) → Applying for PhD  
Ellie K (Sp 2022) → Applying for PhD

## Introductions/Referrals

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

John T (Fa 2021) → PhD at UMass

# Reflections on our semester



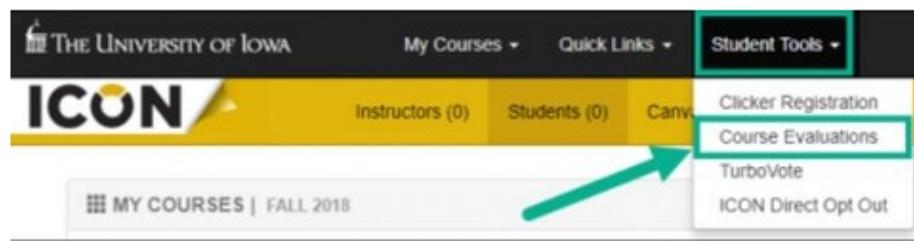
“ Students don't need a perfect teacher. Students need **a happy teacher**, who's gonna make them excited to come to school and grow a love for learning ”

– 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.

