IERG4190/IEMS5707
Multimedia Coding and Processing

Introduction to Course Project

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Part of the materials courtesy of Dr. William K.Y. Hui, Prof Tang Xiaou / Prof. Liu JianZhuang. All images from Internet belong to respective owners.
Group Research Project

- Objective: to study a contemporary multimedia technology and present it to your class
- You should be busy searching for a group (or done so) and thinking about the project topic
- Topic selection will be via direct application to tutor AFTER the group members are confirmed
  - Not now yet! Please do explore options as well; Do some early exploration will help a lot
Criteria

- Convey key information in a **concise manner**
- Not flooded with **unnecessary details**
- Connects to course curriculum
- Uses **diagrams and visuals** well
- All sources **cited**
- Fellow classmates (and me) can **follow and understand**, who will grade your talk!
Presenting Latest Progresses and Technologies in the Field

● Now a standard requirement for many jobs

● Audience
  ○ Your boss
  ○ Your co-workers
  ○ Public audience

● Not a lesson or academic lecture
  ○ For making decisions - tech applicable in my problem? costly? value?
  ○ For general "sense" - keeping up with what's happening
A "Sense" of Subject Matter

Q: When you convert a RGB to a YUV, do you keep the decimal places?!
A: Of course not! Why would you?

- If you do not have the "sense" then people will immediately classify you as uneducated in the domain
- These things would be obvious if you really put yourself in the context
Presenting Technologies

- Unlike the academic lectures which focus on "How", such presentation should cover:
  - "What"
  - "Why"
  - Before covering "How"

- Some have more why's and what's than how, it all depends
  - Make your own judgement
The "What"

- What are we even talking about here?
- What are the key terms we keep hearing about?
- What is it and what is it NOT we are talking about?
- What is its latest development and history?
- What are the people behind it?
The "Why"

- Why is this technology needed?
- Why we do not use previous solutions?
- Why is it a technology at all? Why is it not trivial? Why not develop in-house?
- Why or why not should one care?
The "How"

- Your usual from courses, except less detailed
  - In your presentation you can assume your classmate has similar background in multimedia
- Make sure everyone gets the big picture
  - No one is expected to recite a formula
  - Definitely not a proof - the proved result ok, the proof not okay
- How is it done? How is it implemented? How does it work? … etc.
Demo: Previous Year’s Project Presentation

IEMS5707:  
https://www.bilibili.com/medialist/detail/ml949009089

IERG4190:  
https://www.bilibili.com/medialist/detail/ml948925818
Some other educational Youtube Channel

- Two minute papers: https://www.youtube.com/user/keeroyz
- 3Blue1Brown: https://www.youtube.com/channel/UCYO_jab_esuFRV4b17AJtAw
Tip 1: Making the Right Slides

Golden Rule: No more slides/visuals than the number of minutes you have

Golden Rule 2: Fonts should not be smaller than half the age of your oldest audience
Tip 2. Handouts

- (Not applicable for remote presentation)
- Handouts are good if you are talking about something really complicated
- An A4 page to everyone
  - Usually for a key diagram with labels
  - Not for you to put your script or any wall of text
- Also great for citation
- Submit together with slides later if you have one
Tip 3. Limit Your Scope

- You can always put everything inside
- Then why don't people read the book?
- Curate your content

If you want me to give you a two-hour presentation, I am ready today. If you want only a five-minute speech, it will take me two weeks to prepare.
What's next

- Now: please form a group, 2-3 students in a group
- Suggested topics will be made available soon on Blackboard
- Watch presentations last year (It is actually very interesting to watch)

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