CS179i:
Project Discussion

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Lectures: Monday 1:10-2pm in Sproul 2343

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Lab: Tuesday 7-10pm in Chung 133

http://www.cs.ucr.edu/~rholt002/cs179i_winter17/

Project Topics

- Video streaming
  - Twitch as TV

- Download booster
  - Aggregating maximum number of interfaces

- VR
  - VR head tracking
  - Skype 360
  - Cardboard
  - Daydream
  - Interactive VR world
  - Live stitching

Things to Remember

- Decide milestones before oral progress update (Feb. 13) and final report (week of March 13)

- Think about what you want to measure/plot, e.g.:
  - Latency compared to other "strawman" approaches
  - Scalability with number of users
  - Resource usage (CPU, battery)
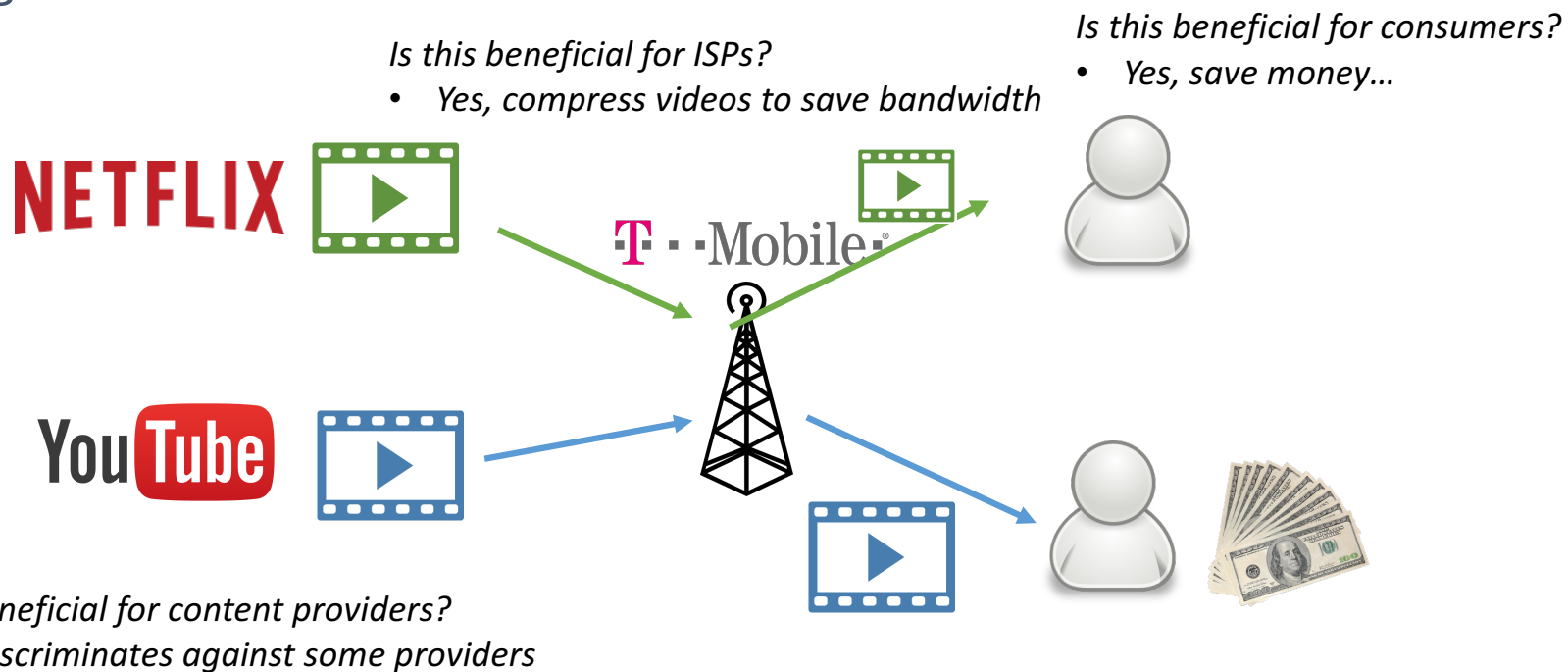
Essay #1: New Trends

- ABET Goals
    - An ability to analyze the local and global impact of computing on individuals, organizations, and society
    - Recognition of the need for and an ability to engage in continuing professional development

Your Task (should you choose to accept it)

- Choose a product/practice/event
  - Product: e.g., Google Glass, consumer-priced drones, self-driving cars
  - Practice: e.g., sponsored cellular data, massive open online courses
  - Event: e.g., 2016 Presidential Elections (fake news), cyberbullying

- Choose a professional organization
  - E.g., ACM, IEEE, …

- Consider the role of the professional organization on the product/practice/event
  - Take a stand! Argue for/against the trend, why is it good/bad for people/taxpayers/animals/etc.

- Write an essay
  - 1000 words, 6+ cited sources
  - Due next Mon. Feb. 6
  - Worth 2.5% of grade

Sponsored Data Content + Net Neutrality

- Event: T-Mobile allowing free video streaming (Binge On)
- Organization: FCC

Is this beneficial for ISPs?
- *Yes, compress videos to save bandwidth*

Is this beneficial for consumers?
- *Yes, save money…*

Is this beneficial for content providers?
- *No, discriminates against some providers*

Possible Essay Topics

- Security
  - Should the Department of Homeland Security be allowed to snoop on your social media when entering the country?

- Network neutrality
  - Should content providers be allowed to sponsor/prioritize cellular data?
    - T-Mobile's BingeOn
    - AT&T's DirecTV
  - Should media content be treated differently than other traffic on the mobile web?

- Social
  - How to balance between privacy and need to make money?

Example Topics from Last Year

- Are MOOCs helpful for university education?
- Are self-driving cars safe? Who is responsible in case of accidents?
- How to regulate drones for privacy?
- How does artificial intelligence change jobs?

Proposal Discussion