CS224 (m) Computer Networks (minor)

Course Overview & Logistics

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http://www.cse.iitb.ac.in/~br

Pre-Requisite

- Earlier:
 - CS213 (m) OR EE717 allowed as substitute
- Now:
 - None!

Flipped Classroom Model

- View online lecture videos
- Attempt in-video and out-of-video problems *before* corresponding tutorial
 - Mandatory to attempt
- Deadline to view videos and attempt problems: Sunday prior to the week
 - Viewing schedule will be available online
- Tutorial attendance is compulsory

Tutorial Organization

- Class divided into 4 houses
 - My focus: 2 houses per session
- All are required to attend, until tutorial submission complete
- We will use "Clickr" Android app

Course Contents

- Goals & metrics, the 7 network layers
- Application layer: WWW, Email, DNS
- Transport layer: UDP, TCP
- Network layer: IP addresses and formatting, routing protocols, supporting protocols
- Link layer: Framing and error control, Ethernet switching, MAC protocols, WiFi
- Physical layer: encoding

Evaluation Plan

- Tutorial quizzes: 15%, Regular quizzes: 20%
 - Tutorial quiz: simple questions, keeps you up to date
 - We will use "SAFE" Android app
 - Irregular in watching videos, tutorials: negative marks
- MidSem: 25%
- EndSem: 40%
- Integrity: most important
 - Strict policy on dishonesty
 - Cheating OR helping cheat ==> DADAC, DAC

Houses

- Class divided into 4 houses
 - Choose a cool name for your house!
- House Points!
 - Fosters healthy competition and is fun
 - Earn points by answering questions, asking challenging questions, solving practice problems online

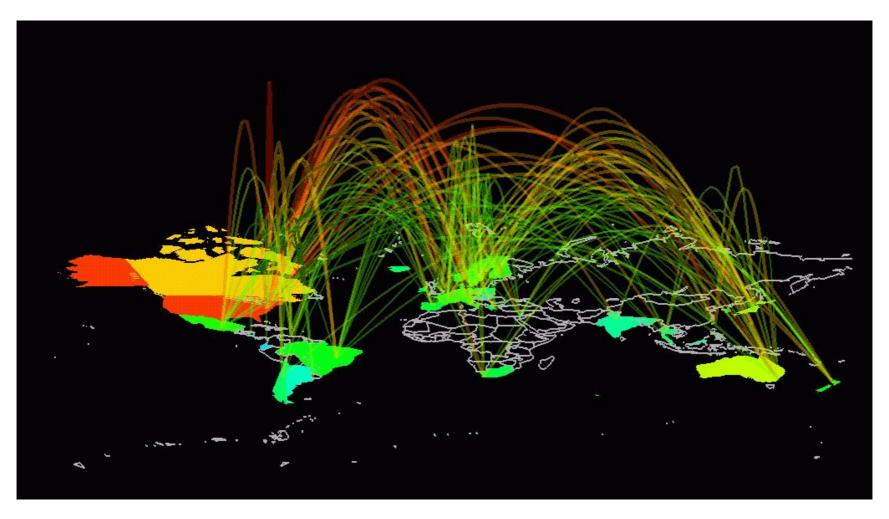
BodhiTree The Flipped Classroom Website

- Developed by: Kameswari Chebrolu, Saif Hasan and Alankar Saxena (BTech CSE graduating batch of 2013), many others
- Overall goal: open it up for every student in India (even abroad)
 - Sincerely request your co-operation and help
- Feedback most appreciated
 - Earn a candy for every suggestion

Action Items

- Watch the videos at http://bodhitree1.cse.iitb.ac.in/
 - Use Firefox, will need to bypass proxy
 - Look at the wiki for the schedule of videos to watch for the week
 - Practice associated quizzes
 - Don't take it easy: tutorials starting next week!
- I will announce houses
- Decide on possible house names

Enter the World of Communication Networks



Picture of the Internet, from the Internet