Giving Good Talks

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Disclaimer

- This is not an example of a good talk
- For a good talk you must:
 - Spend a lot of time preparing and practicing
 - Have as few words as possible
 - Tell a clear story (not just a list of things)

General Talk Advice

Take time to prepare a talk

Practice!

- 3 times? Once with live audience
- Goal: know what to say next, but not "mechanical" or "scripted"
- Talks are a skill to get better at

Your talk should tell a story!

- A few simple points, not all the details
- Audience should always know what the point is, no meandering
- One story, but can have multiple chapters with transitions

Your talk is a commercial!

- Not an archival paper, don't need all the details
- Goal is to inform, give main ideas, get them to read the paper
- Audience will only remember 1-2 main points

- Motivation
- Model, Problem Statement
- Results
- Conclusion



- Motivation (can be fuzzy, why it is useful)
- Model, Problem Statement
- Results
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- Model, Problem Statement (simple example?)
- Results
- Conclusion

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- Model, Problem Statement (simple example?)
- Results (theorems, graphs, a few details)
- Conclusion

- Motivation (can be fuzzy, why it is useful)
- Model, Problem Statement (simple example?)
- Results (theorems, graphs, a few details)
- Conclusion (short, 1-2 main conclusions)

Consider your audience

- Technical level
- Owner was with the work of the control of the co
- Picture a specific person in your head, make the talk for them

Not too many details!!!

Most common problem

Not too many details!!!

Most common problem

But still enough details

Don't oversell your work!

Don't oversell your work!

Don't undersell your work!!!

- Lots of pictures (but not animations)
- As little text as possible (can say in words)
- Not too many equations (be prepared to spend a lot of time explaining them)
- Graphs are nice (be prepared to spend a lot of time explaining them)
- Lots of blank space, not too dense

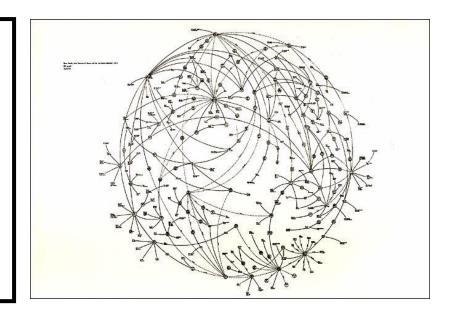
Networks in Theoretical Computer Science

- A major focus of Theoretical Computer Science is the study of networks
- Networks arise in many contexts, with many different properties
- For example, the Internet, Networks of processors,
 Distributed Databases, Social networks, Control-Flow Networks, Biological networks
- This is a terrible slide, there is too much text and it is impossible to read
- Bla bla bla, no one is going to read this anyway, everyone's eyes are blurry from all this text. I can keep writing more and more details, but I should really just say them out loud instead

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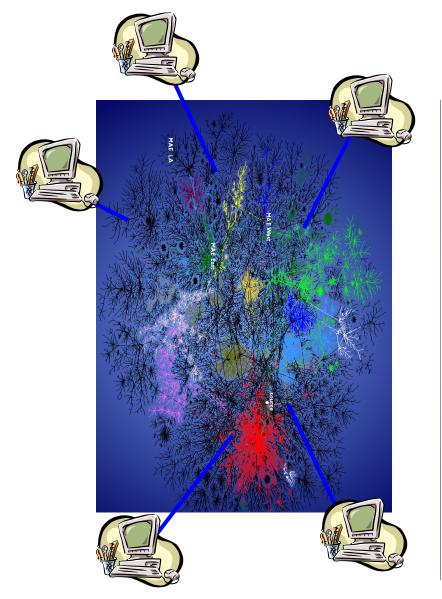
Centralized Control

A majority of network research has made the centralized control assumption:

Everything acts according to a centrally defined and specified algorithm

This assumption does not make sense in many cases.

Self-Interested Agents

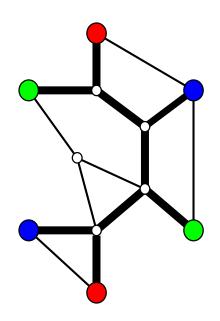


- Internet is not centrally controlled
- Many other settings have self-interested agents
- To understand these, cannot assume centralized control

• Algorithmic Game Theory studies such agents

Agents in Network Design

- Traditional network design problems are centrally controlled
- What if network is instead built by many self-interested agents?
- Properties of resulting network may be very different from the globally optimum one



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Outline slide is usually useless for short talks

Outline:

- Introduction
- Motivation
- Problem Statement
- Results
- Experiments
- Conclusion
- Better to have clear story with transitions

- 1 slide = 1-2 minutes.
 - Less = going to fast
 - More = slide has too much stuff on it
- 1 slide = 1-2 points.
- Large font
- They will forget definitions and notation, even if they were on previous slide

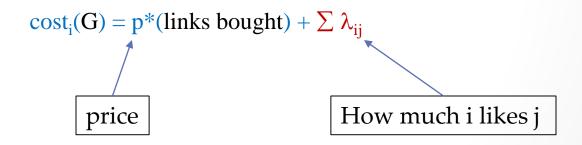
Main goal when making slides:

Inform without clutter

Formulas: People can't read them, get hypnotized

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If must include them, explain and use labels with arrows



Dress: Neatly, one level better than usual

Bring your computer, USB stick with talk

- End the talk on time
 - When practicing, notice a few time "checkpoints".
 - Know what to skip (what is crucial and what is extra?)

Memorize:

- First few sentences
- Transition sentences
- Parts where easy to get confused

Make eye contact with audience

Slow Down!

- Take pauses when you speak (for emphasis)
- Repeat important points

- Be enthusiastic!
 - Don't speak in monotone
 - If too quiet, get a microphone, do not be shy to ask for one!
- Don't be condescending or insulting
- For the main things you want them to remember:
 - Tell them what you are about to tell them
 - Tell them
 - Tell them what you just told them

Always come back to the Big Picture:

- O Why work on this problem?
- Core differences between your problem/approach/results and others
- Main results
- Main insight or big idea (only thing the audience will remember)

Answering Questions

- Don't be angry or dismissive "That's a good question"
- Prepare as much as possible in advance
- Ask if don't understand question
- Great answer: "Don't know, but will think about it, maybe can talk after?"
- Don't bluff or try to fool them
 - Admit mistakes or important concerns
 - Say if you don't know

Answering Questions

Sometimes audience members make comments: this means they paid attention!

Killer Questions:

"Isn't this just a simple extension of X?"

"Hasn't this already been done in Y?"

"I don't think your result/model makes sense."

Be polite!

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