Motivation: Why is it Necessary (to present your work)?

The greatest ideas are worthless if you keep them to yourself.

- It is good for you!
- Helps you to communicate better
- Helps you understand better
- Helps you organize information & your thoughts (if needed).
- Helps you convey important ideas to others!



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Simulation and Modeling

A Pep Talk
Based on Simon Peytons Jones Article

and Presentation

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Pep Talk: Do it! Do It

- Do it right: Invest Time
- The Secret: It is a learned skill no magic!
- The Key to Success: Practice, practice, practice!

Be Open Minded Do experiment



The Process (and outline)

A Three Step Simple Program!

- Step 1: Get the information
- Step 2. Create the Presentation
- Step 3. Present the 'Slides'

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Step 1: Gather Information

Download Paper

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- » Example right is on an OS topic, but applies here too.
- Ask you Self Questions?
 - » Why am I doing this?
 - » What is the paper about?
 - » What is the main idea of the paper?
 - » What is the solution?



More Questions to Ask

- How does the paper relate to the current state of the art?
- Is it relevant? Any key ideas that are timeless?
- Are you inspired (can you, should you)?
- Does it generate new ideas? Does it inspire follow-up research?
- Was it convincing what are the results?

Step 1: Gather Information

- Skim the paper
 - » Read the abstract
 - » Read the bold print
 - » Skim the introduction
 - » Skim the conclusion
 - » Read the middle



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The Second Pass: Actively Read

- Make a second pass! Get really into the paper.
 - » Highlight important points
 - » Take notes (in margins)
 - Questions
 - Examples
 - Definitions
 - Key Points



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After Reading

- Collect your thoughts
- Write a brief summary of key points
- Be critical
 - » Assumptions
 - » Methods
 - » Reasoning
 - » Results
 - » Convincing?
 - » Relevance?
- Write a more extensive summary!

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Example Summary

- Key idea, what is the author trying to do?
- What is the approach and how is it original?
- Reflection: limitations and assumptions
- What is results, impact of paper
- Constructive comments to presenter.

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Ousterhout admits to one shortcoming slower than an equivalent program

Obstribute admits to one shortcoming of scripting baragapes — they are 50-20 in between these are equivalent properars written in a systems programming language However, he claims that: scripting languages make programmers 5-10 times me effection, and this as composed trim becomes chapter and chapter and programmer or of course, not trace; scripting languages rely on components written in system of course, not trace; scripting languages rely on components written in system can only ab the job. Octorboot also makes the outrageous claim that the best of youthern and the scripting language rely are some control of the programming language-passed cones mis the scripting of the plot. Octorboot also makes the outrageous claim that the best of youthern are the scripting-language rely as large, MIC and well-language and well-language and the plot of the programming languages.

the presenter this week, XXX, was great. His slides were very detailed and even necloded fanny graphies, which managed to keep the class entertained, and thus paying thetation. He clied other sources, such as Wikipedia, and seremal findread enough to asswer most questions directed at him. His slides covered percy much the whole paper, and twas verw exidend both with this dentsh and with this beast of covaried to the contract of the contract o

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Step 2: Create the Presentation

- How do I get started?
- You will need to user Power point slides or something similar!
- Important don't copy paste from papers
 - » Make it your own: "Own it."
 - » Easier to convey the information

What style to Use (or Not)?

- Use color to capture the attention of the audience, but not too much?
- Use color to capture the attention of the audience, but not too much?

What are the slides for?

- Organizes your thought, prompts you (add secret prompts, secret language)?
- Convey key points to your audience. Give your audience a feel about the paper and the general idea?
- Engage the audience, provoke them, challenge them?
- Notes to use after talk.

Step 2: Create the Presentation

- Assess your audience, Who are they?
 - » What do they know, what do they need to know?
 - They read the paper?
 - They read all the papers in advance?
 - They already took PL the year before
 - Are fresh / alert and ready to learn?

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The Truth: The Real Audience

- They are you or YOU before you read the paper.
- They may be tired alert them!



Anatomy of a Talk

All good things come in three

- 1. Motivate (20%)
- Key Idea (80%, repeat repeat)
- 3. There is no 3.

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Motivation

- 2 minutes to engage before....
 - » Why should I tune it?
 - » What is the problem?
 - » Why is it interesting?
 - Put yourself in their shoes!



The Key Idea

- You must identify a key idea. "What I did this summer" is No Good.
- Hierarchical -
 - Key ideas of talk
 - » Key idea of each slide
- Be specific. Don't leave your audience to figure it out for themselves.
- Be absolutely specific. Say "If you remember nothing else, remember this."
- Organize your talk around this specific goal.
 Ruthlessly prune material that is irrelevant to this goal.

Use Example(s) and Analogies

Examples are your main weapon

- To motivate the key ideas
- To convey the basic intuition
- To illustrate The Idea in action
- To show extreme cases
- To highlight shortcomings

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The Outline

- Background
- The SASSY system
- Overview of epimorphism
- PI-reducibility is equal to MP
- Benchmarks and Results
- Related Work
- Conclusion and Future Work

But remember: You are not presenting a mystery novel - tell the audience the most interesting stuff first (the key idea)! Why is this paper exciting!

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Need an Outline - Why?

- Outline conveys near zero information before your motivation
 - » Put 'maybe' an outline for orientation

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Technical Detail

Figure 1. Typing Rules

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Omit Technical Detail

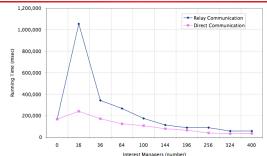
- Present specific aspects only; refer to the paper for the details (if it is too complicated)
 - » Key aspects : Do Present
- By all means have backup slides to use in response to questions
- Know you audience!
- Onion Approach work well:
 - » gently peel the layers of information layers interpretation, layers of meaning. Asking " you mean?" and "What else?" persistently

Present Plots/Data

- Say what it is and what it shows (don't assume audience can tell what is displayed)
 - » Tell them the metric (and why it is important to illustrate) and Variables (and why are these the important variables)
 - » AND What is held constant? (i.e., the assumptions)
- Highlight important characteristics (bumps, trends)
 - » Make sure you understand the data!

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Example: Performance



• 0 agent is time stepped approach

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Presenting your talk!

- Go over slides the day of your talk (after practice)!
- Know the general outline in your head, visualize the order – and what you what to convey –
 - » Look at the slides!

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Enthusiasm

- If you do not seem excited by your presentation, why should the audience be?
- It wakes 'em up
- Enthusiasm makes people dramatically more receptive
- It gets you loosened up, breathing, moving around

Do not apologize!

- "I didn't have time to prepare this talk properly"
- "My computer broke down, so I don't have the results I expected"
- "I don't have time to tell you about this"
- "I don't feel qualified to address this audience"

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Be your self! We are friendly

- Have fun!
- Be enthusiastic!



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The Jelly Fish Effect!



- Symptoms
 - » Inability to breath
 - » Can't stand!
 - » Brain is malfunctioning

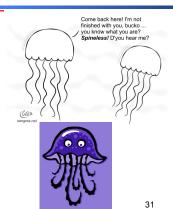


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Treatment



- You are not Alone!
 - » Everyone gets nervous!
- Breath that is it!



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Being seen, being heard

- Point at the screen, the projector, be animated
- Make eye contact
 - » Speak to someone you know
 - » Speak to everyone.
 - » Speak to someone at the back of the room
- Connect with the audience try to listen to them and their questions.

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Presenting your slides

A very annoying technique

is to reveal

your points

one by one

by one, unless...

there is a punch line



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Plan your talk and timing

Absolutely without fail, finish on time

- Audiences get restive and essentially stop listening when your time is up. Continuing is very counter productive
- Simply truncate and conclude
- Do not say "would you like me to go on?" (it's hard to say "no thanks")

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Follow the Rule!

- What Rule?
 - » Only three (1) Motivate (2) and convey the key ideas and (3) there is no three
 - » Repeat.

There is hope!

The general standard is so low that you don't have to be outstanding to stand out

 You will attend 50 x as many talks as you give. Watch other people's talks intelligently, and pick up ideas (appreciate) for what to do and what to avoid (learn, everyone makes mistakes).