

How to prepare and give a research talk

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Purpose of a research talk

Is **not** to

- Impress the audience
- Tell them all you know about a subject
- Present every little detail of your work

Is to

- Give the audience a sense of what your idea/work is
- Make them want to read your paper
- Get feedback on your work

Preparation · Know your audience

- Who would be there?
 - Scientists expert in your field
 - Scientists not expert in your field
 - Students
 - Non experts
 - Who knows?
- Most likely a mix so have something for all

Preparation · Know your audience

- Keep in mind
 - They might be tired
 - They are thinking “Why should I listen?”
 - Non experts will tune off within 2 minutes
 - Experts after 5 minutes
- What can you do?

Preparation · What can you do?

- Early motivation rat

Preparation · Use examples

Examples are your weapon to

- Motivate your work
- Illustrate the basic intuition
- Show your solution in action (baby problem)
- Highlight extreme cases or shortcomings

If you are running out of time cut the general case not the example

Preparation Where were you?

- People will get to you • \$rpĐÀ 0

Preparation · Related work

- Be familiar with all related work
- Don't list each paper you read
- Mainly talk about results that are immediately related to what you did
- References at the end of the talk or better in the paper itself
- Acknowledge co authors (title slide)

Preparation Technical details

A fine line

- Present specific aspect that show the “meat” of your work
- Leave the rest out. If you were convincing they will read your paper
- Don't fill up your slides with lots of equations
- Prepare backup slides that have technical details to answer questions. Leave them at the end of the presentation

The presentation skeleton

- What is the problem
- Motivation and goals
- Relevant state of the art
- What is your key idea/contribution
- Why is your approach good/better
- What I want to do next
- Conclusion of the work

Preparing the presentation



- Less is more. Fill in with narration not words
- Use animations sparingly
- Use color to emphasize some points but limit to 2 or 3
- Be consistent! In the choice and use of color font size/type etc
- Use slides real estate appropriately

Slide 'layout' Bad

- This page contains too many words for a presentation slide. It is not written in point form, making it difficult both for your audience to read and for you to present each point. Although there are exactly the same number of points on this slide as the previous slide, it looks much more complicated. In short, your audience will spend too much time reading what is written.

Slide layout – Good

- Show one point at a time:
 - Will help audience concentrate on what you are saying
 - Will prevent audience from reading ahead
 - Will help you keep your presentation focused

Fonts' Good

- Use a decent font size
- Use different size fonts for main points and seconds

Fonts' Bad

- If you use a small font, your I f

Color ' Good

- Use font color that contrast sharply with the background
 - Blue font on white background
- Use color to reinforce the logic of your structure
 - Ex: light blue title and dark blue text
- Use color to emphasize a point
 - But only use this occasionally

Color · Bad

- Using a font color that does not contrast with the background color is hard to read
- Using color for decoration is distracting and annoying
- Using a different color for each point is unnecessary
 - Same for secondary points
- Trying to be creative can also be bad

Background Good



- Use backgrounds such as this one that are attractive but simple
- Use backgrounds which are light
- Use the same background consistently throughout your presentation

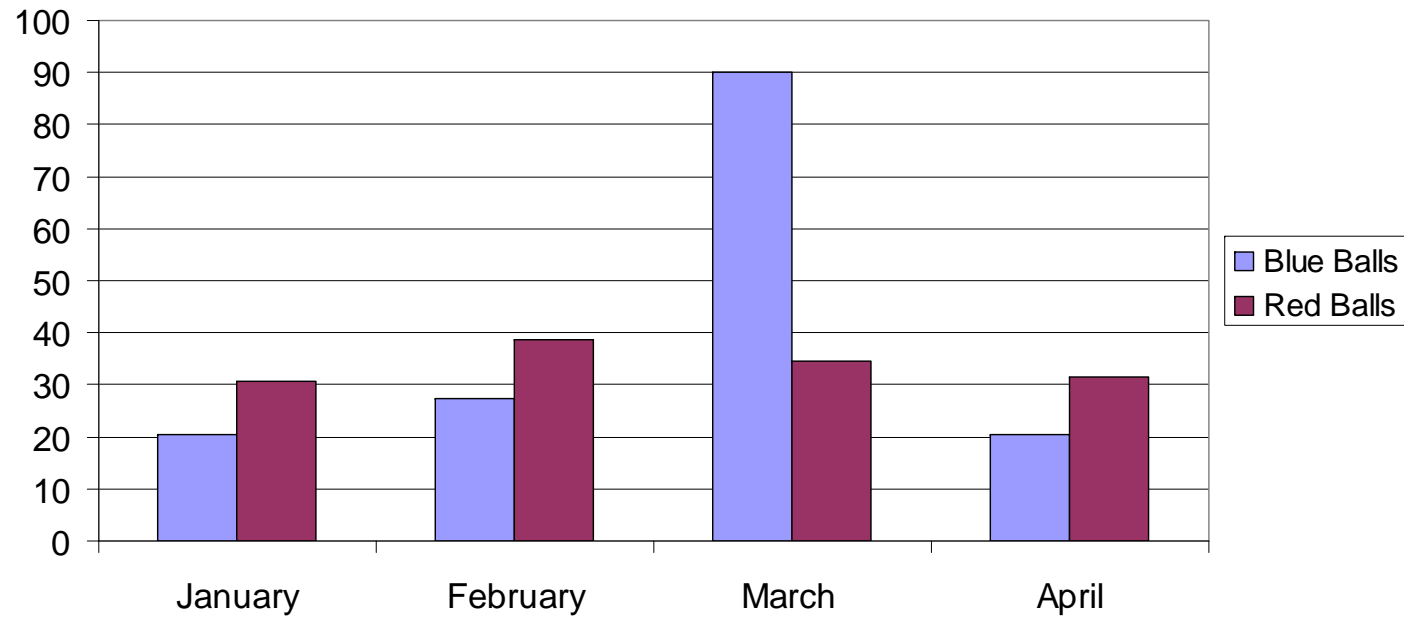
Graphs Good

- Usegraphs

Graphs' Bad

Graphs' Good

Items Sold in First Quarter of 2002



Graphs' Bad

- Minor gridlines are unnecessary
- Font is too small
- Colors are illogical
- Title is missing
- Shadings are distracting

Preparing the presentation



- Prepare the slides in advance
- Show them to friends
- When you think you are done read them again
- Check all animations with the sound on

Preparing the presentation



- Practice, practice, practice
 - Give a practice talk to a general audience
 - Give a practice talk to an audience of expert
 - Time your presentation (allow for speedup effect caused by nervousness)
- Always assume technology will fail you. Have backups.

Delivering the talk

- Be enthusiastic! If you aren't why should the audience be?
- Make eye contact with the audience
- Identify a few "nodders" and speak to them
- Watch for questions. Be prepared to digress or brush off when irrelevant

Delivering the talk

- Point at the screen not the computer
- Do not read directly from the PPT or your notes
- Have the contents for the first couple of slides memorized in case you go blank
- Finish in time

Handling questions

- Different types – handle accordingly
 - Need clarification
 - Suggest something helpful
 - Want to engage in research dialog
 - Show that he/she is better than

Summary and Recap (Cont)

- SlideLayout
 - Less words
 - One point at a time
 - Use Animation Carefully
 - Choice and use of font size/type
 - Use different colors limit to 2 or 3
 - Good Graphs
- Talk Delivery
 - Enthusiastic
 - Eye Contact and Speak to “Nodders”
 - Watch for Questions

- Presentation Practice
 - Prepare slides in

Questions?

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