

MY TALK ON AN INTERESTING TOPIC.

My name

Department of Statistics, Rutgers University

name@stat.rutgers.edu, <http://www.stat.rutgers.edu>

January 18 2007

- Background and Motivation
- Method 1
- Method 2
- Comparison of Methods
- Conclusion
- Future work

OUTLINE

METHOD 1

METHOD 2

COMPARISON OF
METHODS

CONCLUSION AND
FUTURE WORK

GOALS

- Give the audience an idea of what to expect
- You may want to remind the audience of the outline as the talk progresses

CHALLENGES

- Don't give excessive detail on each slide
- Don't read from the slides - talk to the audience
- Time yourself at home - reading *aloud*. A slide takes anywhere from 2+ minutes, depending on the amount of information on it.

GOALS

- Give the audience a reason to listen - why is this important? what is the motivation?
- What is the connection to previous work?
- What is the connection to the underlying science?

CHALLENGES

- Don't go into too much detail - it will only distract the audience
- Keep a reasonable perspective - everything may seem equally important, but force yourself to choose which items to highlight

OUTLINE

METHOD 1

METHOD 2

COMPARISON OF
METHODS

CONCLUSION AND
FUTURE WORK

Method 1 was introduced in 1971, by X and Y. The results were published in this very very long citation, and just to avoid confusion here is exactly what they said in this paper: Put 2 cups of water in a pot, and bring to a boil. Remove the pot from the stove. Add 1 tsb of butter (unsalted) to the water. Put the pot back on the stove. Measure 1 cup of rice (Uncle Ben is not be recommended, nor is any other preprocessed product). Remove the pot from the stove and add the rice to the pot. Put the pot back on the stove and bring the rice, butter and water to a slow boil. Don't stir. Let simmer until all the water has been absorbed into the rice. Take the pot off the stove and serve with fava beans and a nice chianti. if you don't like fava beans, try one-eyed peas as a substitute.

OUTLINE

METHOD 1

METHOD 2

COMPARISON OF
METHODS

CONCLUSION AND
FUTURE WORK

OUTLINE

METHOD 1

METHOD 2

COMPARISON OF
METHODS

CONCLUSION AND
FUTURE WORK

THIS IS A TALK - NOT AN ESSAY

- When writing your slides, remember that you will be there to boost them
- Don't write an essay - use bullet points, keywords
- Avoid excessive detail and less important comments on the slides - you can add them when you give the talk.
- Do not force your audience to use binoculars - everything on the slide should be clear, even from the back of the room.

THIS IS A TALK - NOT AN ESSAY

- Bring 2 cups of water to a boil
- Add 1 tbl spoon of unsalted butter
- Add 1 cup of rice, and bring to a slow boil
- Do not stir
- Let simmer until water is absorbed
- Serve with fava beans and chianti

Suggestions:

Avoid preprocessed rice.

Substitute fava beans with one-eyed peas.

MATH

- Keep the notation as simple as possible
- Be consistent - you cannot call an object X on 3 slides, and Y on the other slides.
- Be reasonable - you may have read the paper/done the research for months - how much detail do you think your audience can absorb in 30-60 minutes?
- Make sure the audience will walk away knowing what the *main* contribution is

- Try to connect each component in your talk.
- If possible, make direct comparisons.

KEEP IN MIND...

- Your audience will ask questions - make sure you're prepared to answer...
- How was the comparison made?
- Was this a simulation study? How was the simulation study set up?
- What about the performance on real data?
- Is there theory to support one method over and another?

OUTLINE

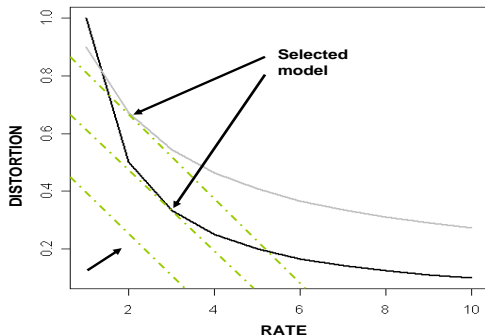
METHOD 1

METHOD 2

COMPARISON OF
METHODS

CONCLUSION AND
FUTURE WORK

Is a figure always worth 1000 words?
Yes and No.



You need to clearly mark the axis of the figure - the audience wants to know what they're looking at as soon as the slide pops up....

OUTLINE

METHOD 1

METHOD 2

COMPARISON OF
METHODS

CONCLUSION AND
FUTURE WORK

Is a table worth 1000 words?

missing prob.	0.02	0.04	0.08	0.16
0.02	1	0.9967	0.9956	0.9961
0.04		1	0.9972	0.9978
0.08			1	0.9989
0.16				1

TABLE: Pearson correlation coefficients of RMSE among the four missing probabilities.

Keep the table simple - you cannot have a table with too many entries on one slide.

A table may work in a paper, but a (simplified) figure might have to do for a talk...

OUTLINE

METHOD 1

METHOD 2

COMPARISON OF
METHODS

CONCLUSION AND
FUTURE WORK

REMINDER...

- Remind the audience what the main goal of the talk was
- What is the take-home message?
- Any surprises you think the audience should be aware of?
- Anything you had to leave out of the talk you want to mention?

OUTLINE

METHOD 1

METHOD 2

COMPARISON OF
METHODS

CONCLUSION AND
FUTURE WORK

LOOKING AHEAD...

- Is there any obvious direction to take?
- What are the main challenges? Any gaps?
- Mention a few items you have thought about.

OUTLINE

METHOD 1

METHOD 2

COMPARISON OF
METHODS

CONCLUSION AND
FUTURE WORK

- Who payed for all this?!?
- Who helped with the programming, discussed the problem with you, introduced the problem....?
- Where did the data come from?

OUTLINE

METHOD 1

METHOD 2

COMPARISON OF
METHODS

CONCLUSION AND
FUTURE WORK