

How to Give a Good Research Talk

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September 6, 2006

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- ▶ Hard to convince sleeping people that your work is brilliant!
- ▶ Avoid attendants fall a sleep or starting opening their laptops/PDAs
- ▶ All have an opinion on the topic "Giving a good talk"
- ▶ Brilliant work can be presented really boring!
- ▶ The good news: easy to be better than the average
- ▶ All can learn to give a good research talk

References

This paper is based on S.P. Jones on-line material, follow links below.

Go and see the on-line video!

- ▶ <http://research.microsoft.com/Users/simonpj/papers/giving-a-talk/giving-a-talk.htm> How to write a good research paper
- ▶ <http://research.microsoft.com/Users/simonpj/papers/giving-a-talk/giving-a-talk.htm> How to give a good research talk
- ▶ <http://perl.plover.com/yak/presentation/samples/slide001.html> Conference Presentation Judo

Purpose of Talk

Yin and Yang: A research talk and a research paper.

Purpose of giving a talk is to

- ▶ make your idea more clear (audience you know, colleagues)
- ▶ get feedback (colleagues and existing partners)
- ▶ build a network
- ▶ communicate your great idea
- ▶ get a job

Purpose of Talk, cont.

Paper and talk have different purposes

- ▶ Paper = beef
- ▶ Talk = advertisement for the beef

The audience

- ▶ Present the intuition, can later go and read the paper
- ▶ To make them glad they came

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What to Put In

- ▶ Motivation (20%)
- ▶ Key idea (one and only one key idea) (80%)

The Introduction

You have only a few minutes to catch the audience's interest
Answer the following two questions for the audience.

- ▶ What is the main problem?
- ▶ Why is it an interesting problem?

The Key Idea

If the audience only remember one think what should it be?

- ▶ Explain the key idea
- ▶ Be specific, tell “this is the key idea”
- ▶ Structure of talk should support the key idea

What to Leave Out?

- ▶ Detailed outlines (but some outline)
- ▶ The details, for example
 - ▶ Proofs
 - ▶ Long algorithms
 - ▶ Long code snips
- ▶ Apologies
 - ▶ I did not have time to prepare this talk
 - ▶ I do not have time to tell you about this
 - ▶ I do not feel qualified to address this audience
 - ▶ I have problems with my computer

Overview or details?

- ▶ Avoid entire talk is an overview (shallow)
- ▶ Avoid presenting all the details
 - ▶ Explain key idea in details

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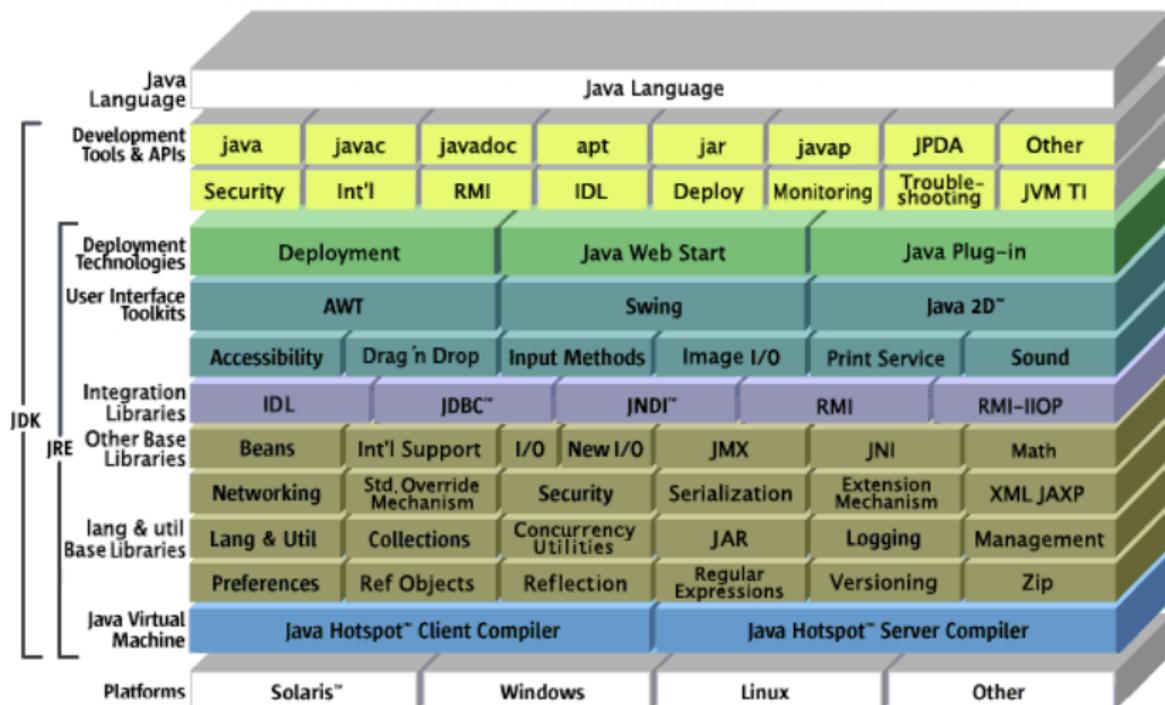
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Java 5.0, an Example

Java™ 2 Platform Standard Edition 5.0



Examples

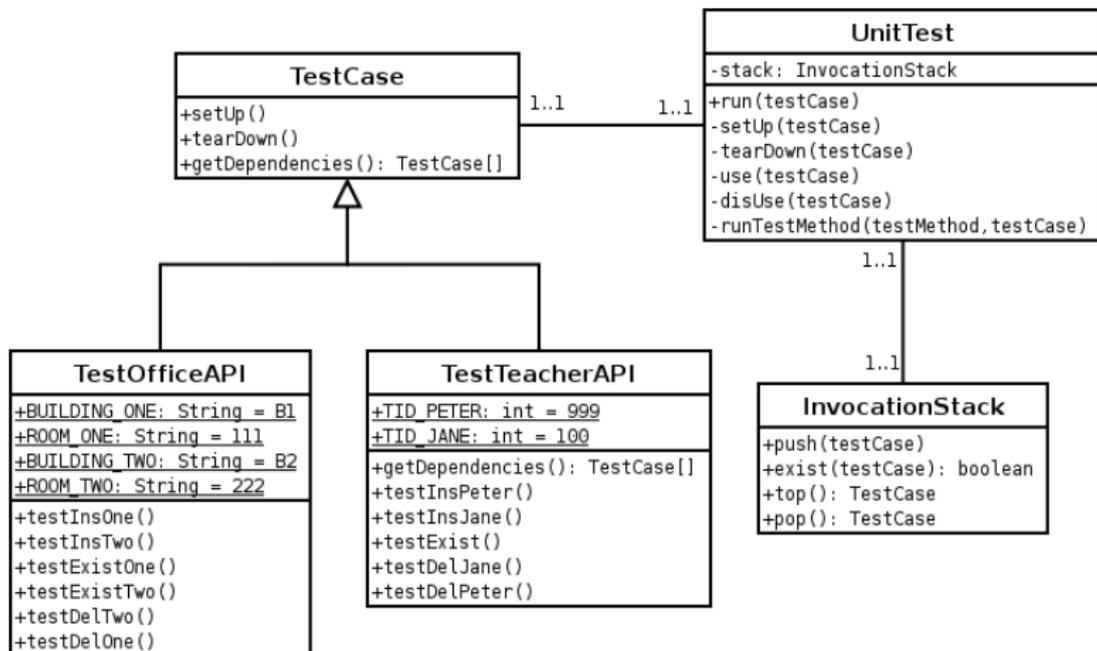
Many talks are far too abstract!

The Awful Trap is to present only the framework and the abstraction, leaving out the motivating examples.

- ▶ Very good for communicating an idea
- ▶ Very good way to provide an overview
- ▶ The best way to present the key idea
 - ▶ Make take a while to discuss a complicated example
- ▶ May not be the best way to present details.

Ask yourself again and again: “have I illustrated this idea/theorem/definition/technique/algorithm with an example?”

Unit-Test Framework—Another Example



Related Work

- ▶ Include most relevant related work
- ▶ Your own related work

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PowerPoint et al

- ▶ Do not overuse the advanced features
- ▶ Use colors where it is meaningful
- ▶ Use animation where it makes sense
 - ▶ Example: Modification on R^+ -tree, 65 slides in 10 minutes
 - ▶ Example: A figure with many parts

“Remember that time you spend fiddling with the typesetting is time you are not spending on the content.”

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Strong Points

- ▶ Author is a very good speaker
 - ▶ see the on-line material
- ▶ Very short and readable paper
- ▶ Focus on using examples
- ▶ Focus on the key idea of the paper
 - ▶ and leave everything else out
- ▶ Good points on the usage of advanced PowerPoint features

Weak Points

- ▶ Says prepare the talk the night before
 - ▶ I strongly disagree
- ▶ Parts of the paper is outdated
 - ▶ Section 3.1 Technology
- ▶ Does not discuss how to present performance graphs
 - ▶ typically used in a database paper
- ▶ Provide references (there are none)

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“Best” Mistakes

- ▶ Problems talking into the microphone
- ▶ Constrained by the podium
- ▶ Laser pointers are from Hell
- ▶ Got an obvious question that we had not considered in the paper

Know Your Strong and and Weak Points

Strong Points

- ▶ Enthusiastic
- ▶ Like what I am doing a lot
- ▶ Well-prepared, always practice in front of mirror/dog/spouse

Weak points

- ▶ I talk too fast
- ▶ I move around too much
- ▶ I use my arms too much

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Summary

- ▶ Good paper written by well-known author and speaker
- ▶ Offers good advise
- ▶ Paper and video can be downloaded from web site
- ▶ Covers both preparing and giving the talk

Future Work

How to write a good master thesis

- ▶ How to give a talk
 - ▶ Good specific to talks
- ▶ How to Organize your Thesis
 - ▶ More general on thesis work
- ▶ How to write a good research paper

Books

- ▶ William Strunk and E. B. White: The Elements of Style
- ▶ Anothony Weston: A Rulebook of Arguments.