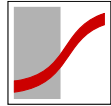


- ◆ Numerous students expressed *great interest* in MSc Dissertations
- ◆ These are *very different* from MSc Projects .

Presenting Your Proposal

Techniques that they don't teach you for the MSc project



Prof. T.H. Tse

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Web: hku.hk/thtse .

Track Record of Speaker

- ◆ Start with something to *attract* the audience .

- ◆ *Best teacher award*
- ◆ Teacher effectiveness
 - 94.4% in 2022
 - 93.2% in 2021
 - 96.4% in 2020
- ◆ *Supervision of Best Tutor Awards*
 - Lijun Mei
 - Jack Zhai
 - Jolly Cheng .



2

My Presentation Strategy

- ◆ Continue with something *interesting* to *attract* the audience .

The Boiling Frog Syndrome

- ◆ If a frog is placed in boiling water, it will jump out
- ◆ If it is placed in cold water and slowly heated, it will never jump out but boiled alive .



Who Do You Want to Attract ??

- ◆ *Experts* in your area of research
- ◆ *Experts* who may not be your area .

Start with Something to Attract the Audience

We Learn from Real Mistakes

Please excuse me if you cannot understand my talk because my English is not good

- ◆ *How attractive is this introduction ??*
- ◆ *Learn from best international presenters, not other students .*

5

Presentation Outline

- ◆ *Continue with an interesting Presentation Outline*

- ◆ Introduction
- ◆ Preliminaries
- ◆ Presentation skills
- ◆ PowerPoint presentations
- ◆ Summary and conclusion .

3 Ps

- ◆ *This is part of your slide*

6

We Learn from Mistakes of Many MSc Projects

Presentation Outline

- ◆ Introduction
- ◆ Systems analysis
- ◆ Systems design
- ◆ Implementation
- ◆ Conclusion

- ◆ *No information or attraction whatsoever*
- ◆ *Learn from best international presenters, not other students .*

7

Presentation Outline

- ◆ Introduction
- ◆ **Preliminaries**
- ◆ Presentation skills
- ◆ PowerPoint presentation
- ◆ Summary and conclusion

First Impression

You never get a second chance to make a first impression



Will Rogers, Actor
1879-1935

Even before starting with something interesting:

- ◆ Proper dress
- ◆ Title slide

9

Dress Properly *According to Expectation*

- ◆ Informal



- ◆ Smart casual



Dress Properly *According to Expectation (Continued)*

- ◆ Mark Zuckerberg



- ◆ Same Person



Title Slide

- ◆ *Your presentation title is important*
- ◆ *Your affiliation is important*
- ◆ *The background of your title slide is **not** important*

Presenting Your Proposal *Techniques that they don't teach you for the MSc project*



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Pokfulam, Hong Kong
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Your Presentation Title: Example 1

- ◆ Testing of Context-Aware Applications **Too general**
- ◆ A Metamorphic Approach to Integration Testing of Context-Aware Middleware-Based Applications **Too long**
- ◆ Integration Testing of Context-Aware Middleware-Based Applications: *a Metamorphic Approach* **Add subtitle**

Your Presentation Title: Example 2 Add Interesting Subtitle

Presenting Your Proposal:

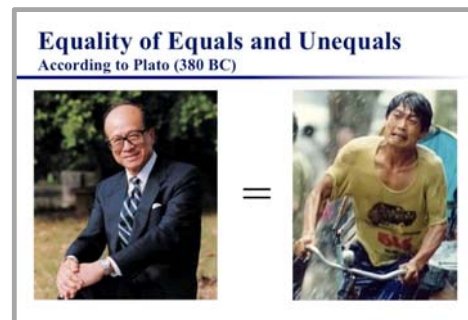
Techniques that they don't teach you for the MSc project

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Your Presentation Title: Example 3 Add Interesting Main Title

Equality to Equals and Unequals:

A Revisit of the Equivalence and Nonequivalence Criteria in Class-Level Testing of Object-Oriented Software



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Your Presentation Title: Example 4 Add Interesting Acronyms

- ◆ **CHOC'LATE:** a CHOiCe-reLAtion framework for TEst case generation
- ◆ **DESSERT:** a DividE-and-conquer methodology for identifying categorieS, choiceS, and choicE Relations for Test case generation
- ◆ **MINTS:** MINimum Test Suites
- ◆ **TIRAMISU:** Testing context-senslitive, concuRrent And MiddlewAre-baSed Ubiquitous software
- ◆ **TRIFL:** TowaRds Improved techniques for Fault Localization

Your Affiliation is Important

- ◆ University of HK ??
- ◆ University of Hong Kong ??
- ◆ The University of Hong Kong ??
- ◆ *The University of Hong Kong, Pokfulam, Hong Kong* .

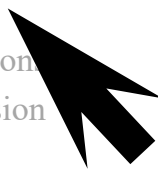
HK is not as well known as USA

Which University of Hong Kong ??

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Presentation Outline

- ◆ Introduction
- ◆ Preliminaries
- ◆ ***Presentation skills***
- ◆ PowerPoint presentation
- ◆ Summary and conclusion



We Learn from Real Mistakes

Background of Title Slide *Not* Important



- ◆ *Complex background distracts attention*
- ◆ *Learn from modern design: Keep it simple* .

Main Presentation Skill

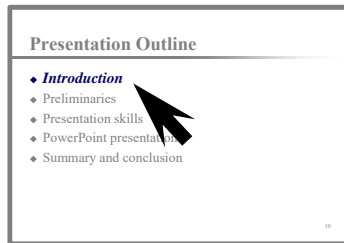
- ◆ Tell them what you are going to say
- ◆ Tell them
- ◆ Tell them what you said

Tell them x 3 .

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Main Presentation Skill Implementation

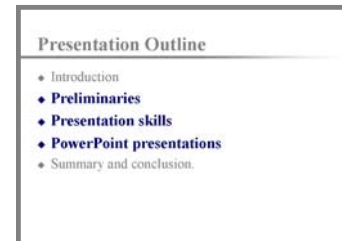
- ◆ Tell them what you are going to say



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Main Presentation Skill Implementation (Continued)

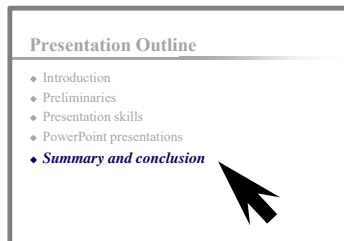
- ◆ Tell them what you are going to say
- ◆ Tell them



22

Main Presentation Skill Implementation (Continued)

- ◆ Tell them what you are going to say
- ◆ Tell them
- ◆ Tell them what you said



23


Speaker-Oriented Presentation

- ◆ You lead the presentation
 - Face the audience
 - Deliver a message
 - Provide the content
- ◆ The slides support you
 - Arouse interest
 - Give visual messages
 - Help signposting .

- ◆ Argue your points
- ◆ Persuade the audience
- ◆ Promote your work


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Speaker-Oriented Presentation (Continued)

- ◆ Speak to audience *directly*
- ◆ *Speak*, not read
- ◆ Ensure *eye contact*
- ◆ Control the slides *yourself*
- ◆ **Don't** allow other team members to act as wallpaper
- ◆ **Don't** use cue cards
- ◆ *Memorize* the sequence
- ◆ Add *hidden cues* . 

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Presentation Outline

- ◆ Introduction
 - ◆ Preliminaries
 - ◆ Presentation skills
 - ◆ **PowerPoint presentations**
 - ◆ Summary and conclusion
- 

PowerPoint Presentations

Many challenges

Equipment control

- ◆ Unfamiliarity of equipment setting is *your* fault
- ◆ Get familiar *well before* presentation
 - Book the room for rehearsal *days* before the talk
 - Know how to *dim* lights
 - Know how to use *microphone*
- ◆ Equipment breakdown is *your* fault
- ◆ Ask fellow student to bring a *rehearsed* notebook .

PowerPoint Presentations Highlighting

- ◆ **Never** use laser pointers
- ◆ **Avoid** mouse pointers
- ◆ Use prepared pointers
- ◆ Use animation
- ◆ Use callouts

Like this .



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We Learn from Mistakes

Unbalanced PowerPoint List

◆ *Assertion Checking*

- Da, Domine, propitius pacem in diebus nostis, ut, ope misericordiae tuae adiuti, et a peccato simus semper
- Ut unum Deum in Trinitate, et Trinitatem in unitate veneremur
- Defende nos in proelio; contra nequitiam et insidias diaboli esto praesidium

◆ *Metamorphic Testing*

- Actiones nostras, quaesumus Domine, aspirando .

Balanced PowerPoint List

◆ *Assertion Checking*

- Da, Domine, propitius pacem in diebus nostis, ut, ope misericordiae tuae adiuti
- Ut unum Deum in Trinitate, et Trinitatem in unitate veneremur

◆ *Metamorphic Testing*

- Defende nos in proelio; contra nequitiam et insidias diaboli esto praesidium
- Actiones nostras, quaesumus Domine, aspirando praeveni et adiuvando prosequere .

All Rules Have Exceptions

Unbalanced Lists for Special Effect

◆ *Disadvantage of Metamorphic Testing*

- Ut unum Deum in Trinitate, et Trinitatem in unitate veneremur

◆ *Advantages*

- Da, Domine, propitius pacem in diebus nostis
- Ut, ope misericordiae tuae adiuti
- Defende nos in proelio
- Contra nequitiam et insidias diaboli esto praesidium
- Actiones nostras, quaesumus Domine
- Aspirando praeveni et adiuvando prosequere .

PowerPoint Presentations (Continued)

Referring Backwards

◆ *Assertion Checking*

- Advantages ...
- Disadvantages ...
- Costs ...

PowerPoint Presentations (Continued)
Referring Backwards

◆ *Metamorphic Testing*

- Advantages ...
- Disadvantages ...
- Costs

*When referring backwards, do **not** return to previous slide .*

PowerPoint Presentations (Continued)
Referring Backwards

Comparing the Advantages:

Referring Backwards	Referring Backwards
◆ Assertion checking <ul style="list-style-type: none">■ Advantages ...■ Disadvantages ...■ Costs ...	◆ Metamorphic testing <ul style="list-style-type: none">■ Advantages ...■ Disadvantages ...■ Costs ...

Prepare PowerPoint Slides by Iterations

First Attempt

- ◆ Comprehensive
- ◆ Disciplined
- ◆ Practical
- ◆ Professional

Too vague ...

Prepare Slides by Iterations

Second Attempt

Too tiny ...

Comprehensive

- ◆ Da, Domine, propitius pacem in diebus nostis, ut, ope misericordiae tuae adiuti, et a peccato simus semper liberi et ab omni perturbatione securi

Disciplined

- ◆ Ut unum Deum in Trinitate, et Trinitatem in unitate veneremur

Practical

- ◆ Defende nos in proelio; contra nequitiam et insidias diaboli esto praesidium

Professional

- ◆ Actiones nostras, quaesumus Domine, aspirando praevieni et adiuvando proseguere: ut cuncta nostra oratio et operatio a te semper incipiat et per ta coepta finiatur.

Prepare Slides by Iterations

Third Attempt

Recommended

37

Prepare Slides by Iterations

Third Attempt

We are comprehensive

- ◆ Da, Domine, propitius pacem in diebus nostis, ut, ope misericordiae tuae adiuti, et a peccato simus semper liberi et ab omni perturbatione securi

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Prepare Slides by Iterations

Third Attempt

We are comprehensive

We are disciplined

- ◆ Ut unum Deum in Trinitate, et Trinitatem in unitate veneremur

39

Prepare Slides by Iterations

Third Attempt

We are comprehensive

We are disciplined

We are practical

- ◆ Defende nos in proelio; contra nequitiam et insidias diaboli esto praesidium

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Prepare Slides by Iterations
Third Attempt

We are comprehensive

We are disciplined

We are practical

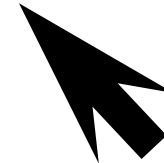
We are professional

- ◆ *Actiones nostras, quaesumus Domine, aspirando praeveni et adiuvando prosequere: ut cuncta nosta oratio et operatio a te semper incipiat et per ta coepta finiatur .*

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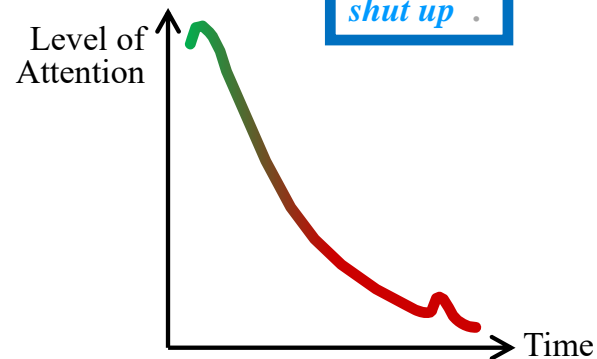
Presentation Outline

- ◆ Introduction
- ◆ Preliminaries
- ◆ Presentation skills
- ◆ PowerPoint presentations
- ◆ ***Summary and conclusion***



Timing

*Stand up,
speak up,
shut up .*



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Summary and Conclusion

- ◆ ***Preliminaries***
 - Visibility
 - Networking

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Summary and Conclusion

- ◆ Preliminaries
- ◆ **Presentation skills**
 - First impression
 - Tell them $\times 3$
 - You *lead* the presentation, *supported* by the slides

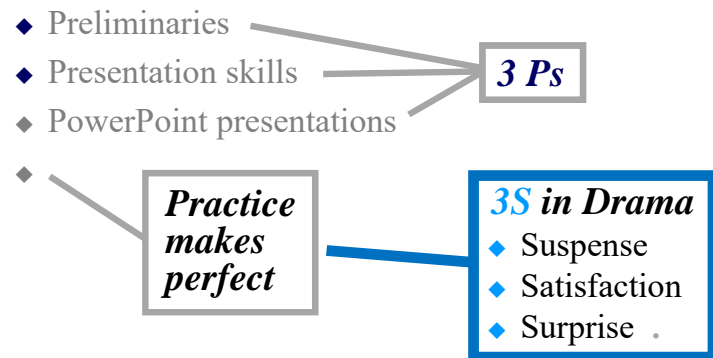
45

Summary and Conclusion

- ◆ Preliminaries
- ◆ Presentation skills
- ◆ **PowerPoint presentations**
 - *Highlighting*
 - *Balanced* lists
 - Referring *backwards*
 - Preparing by *iterations*

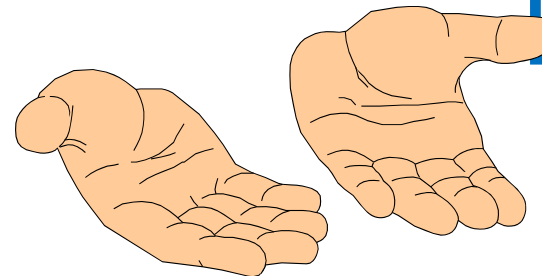
46

Summary and Conclusion



Your Comments are Welcome

- ◆ *Better than Q&A*
- ◆ *Shows your confidence*



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Thank you

Hang on:

- ◆ *Put potential Q&A slides after this, just in case .*

What Do You Do When Attending Talks and Meetings ??

- ◆ Listen very carefully and take notes?
- ◆ Do excellent presentations
- ◆ Think of in-depth questions to discuss with the speakers

◆ *Visibility*
◆ *Networking .*