



Biometric Identification and Verification

HOW TO Present a Seminar Project

Sebastian Möller, Lydia Krause, Michael Wagner

How to prepare a „usable“ presentation

- First and foremost: appropriate content and level
- What does usable/usability mean?
- Respect your time limits
- Speak to your audience
- Visualisation, aesthetic and minimalist design
- Outline and summary
- Practice, practice, practice

FIRST AND FOREMOST

- Content and level of your presentation:
- You are not speaking to a high-school class but to your fellow senior university students and to your teachers and professors.
- Show that you have learned enough about a chosen cutting-edge scientific topic to discuss it seriously with fellow scientists.
- By all means, begin with a Wikipedia search. Then find at least one peer-reviewed paper in a respected journal, e.g. Proc. IEEE or IET Biometrics.
- Make sure that everyone in the audience, including your teachers, learn something from your presentation!

Definition of Usability

- **What means usable/usability?**

Definition (ISO/IEC 11581):

„The extent to which a product can be used by specified users to achieve specified goals with effectiveness, efficiency, and satisfaction in a specified context of use“

- **Your presentation is your „product“ – make it usable so the audience has a good user experience ;-)**

Time Limits



Respect your time limits
Don't exceed your presentation
time. It's unfair towards the speakers
who are giving their presentation
after yours.

Image: Uditha Wickramanayaka via flickr; CC BY-NC

Speak to Your Audience

- Have your audience in mind



Image: Steven Lilley via flickr; CC BY-SA

- What is their background and knowledge of the topic?
- Make your presentation interesting to everyone irrespective of their background.

Visualise and Emphasise

- Visualise and emphasize things (but only where it makes sense)

Iris recognition

is an automated method of biometric identification that uses mathematical pattern-recognition techniques on video images of the irides of an individual's eyes, whose complex random patterns are unique and can be seen from some distance

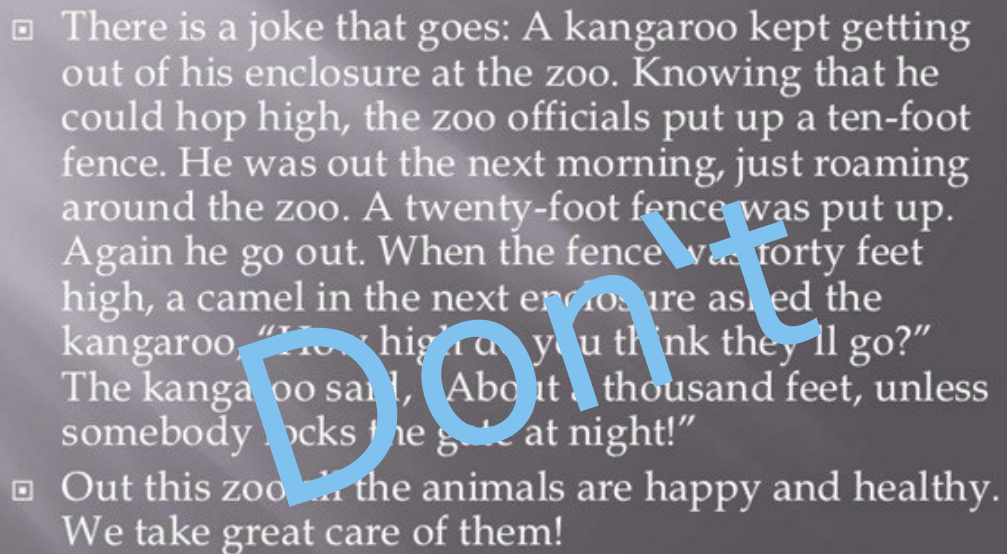
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Aesthetic and Minimalistic

- Aesthetic and minimalistic design
 - Don't overload your listeners with too much detailed information (e.g. too many formulas), don't use too big or too small fonts. Use fonts that are well readable.

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- ▣ There is a joke that goes: A kangaroo kept getting out of his enclosure at the zoo. Knowing that he could hop high, the zoo officials put up a ten-foot fence. He was out the next morning, just roaming around the zoo. A twenty-foot fence was put up. Again he go out. When the fence was forty feet high, a camel in the next enclosure asked the kangaroo, "How high do you think they'll go?" The kangaroo said, "About a thousand feet, unless somebody locks the gate at night!"
 - ▣ Out this zoo all the animals are happy and healthy. We take great care of them!



Images: <http://de.slideshare.net/middletonat/bad-powerpoint-example>

Outline

- Provide an outline (optional but recommended)
 - Let your listeners know what to expect and how your presentation is structured. If your presentation is well conceived you can skip the outline, which doesn't mean however, that you can't still use it if you like it.

Example of Structure

- Introduction
 - Why is this biometric modality important
 - Where is it used, case scenarios
- Different methods for feature extraction
 - Method 1, Method 2,...
- Different methods for identification/verification
- State-of-the-art performance
 - What performance metrics, what studies by which authors (year),...
- Conclusions, including future directions of research

Summary

- Summary
 - Provide a summary of your main points as last slide or before the last slide.
 - What are the take-aways of your presentation?
 - This makes it easier for the listener to remember your message.

User-Centred Design

- Contact data
 - Provide your email address so the audience can contact you in case of remaining questions.
 - This can be either on the first slide or on the last slide.

User-centered design

lydia.kraus@telekom.de

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Practice, Practice, Practice

- Practise the presentation several times aloud before you hold it in front of the intended audience.
- This will help you to see if you meet the time limits and if your presentation is well understandable.
- No need of an audience for practising – just speak aloud and record



Image: Gage Skidmore via flickr, CC BY-SA

References

- Put source information for each figure next to the figure
 - otherwise you may get into legal trouble with the copyright owner!
- Indent quotations and place the source information next to them
 - referring to the work of others work without correct attribution is plagiarism – an absolute no-no in academia!
- A list of all references is placed at the end of the presentation

Organisational Issues

- Deadlines for slides
 - Send your draft slides **7 days before your presentation** to s.rallabandi@tu-berlin.de if you wish to receive feedback
 - The chair of the session must have all slides for that session **before the session starts.**
 - PDF or PPTX format (no other format will be accepted)
- For the Presentation
 - Laptop is provided
 - All group members to present
 - 15 minutes for presentation (around 7 minutes each presenter)
 - 5 minutes questions
 - 5 mins feedback from students

Evaluation

- Evaluation of content:
 - Is the topic appropriate?
 - Is subject matter up to date?
 - Has the talk adequate depth?
 - Is the referencing correct?
- ...and of presentation style:
 - Good structure?
 - Good clarity?
 - Correct timing
 - Good audience engagement
- Maximum mark: 30 points
- Group members may get different marks

Checklist

- Are the contents right to my audience? (not too broad, not too much detail)
- Do I have an easy-to-follow structure?
- Is my presentation sufficiently visual?
- Have I included a summary at the end with take-aways?
- Have I included an attribution for every figure and quotation? (Author, year)
- Have I included the reference list at the end?
- Do I have my contact email in the presentation?
- Do I have a minimalist design?
- Do I have a consistent layout with same font, consistent font sizes?
- Does the presentation match the allowed time precisely?
- Have I practiced my presentation at least twice?