

Giving a Presentation

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Slides originally by Wolfram Burgard



With Every Presentation ...

... you present yourself and your work

Outline

- The slides
 - Content
 - Layout
- The presentation

The Slides

- Typically **done long before** the presentation
- And long enough to **practice**
- They are used to better **convey the message**

- Their purpose is **not** to allow you to **read off what you want to say**

Many Scientific Presentations have Similar Outlines

1. Introduction and Motivation
 2. State of the Art
 3. Our Approach
 4. Results
 5. Conclusions and Future Work
- This/such a slide is contained in many presentations
 - Maybe it is better to leave it out if your presentation is short.

Introduction and Motivation

Describe

- the problem
- why it is relevant
- the open question
- in which way your approach provides an answer to this question

Why should people care about your work?

State of the Art

- **Mention relevant approaches** presented in the past.
- Tell in which way the approach presented in this paper goes **beyond the previous ones**.
- The art lies in finding the right balance between achievements and limitations
- Tell what the approaches do and what they solve (make the authors happy)
- Tell in which way your approach is better (without making the authors of previous work unhappy)

The Approach

- This part of the presentation is **not intended to demonstrate your skills**
- It is intended to **let the audience understand how your approach works**
- Provide the audience with the **technical details** and the **intuition**
- Use **graphics and/or examples** to explain technical details

Algorithms are Hard to Understand

Algorithm 1 Coverage(S)

```
1: C ← S // Set the current node to S
2: Paux ← C
3: P ← ∅
4: while 1
5:   ∀n ∈ Paux, m ∈ N, ||cn - cm|| < MR · ecell
      visited(m) = 1
6:   ∀n ∈ Paux, m ∈ N, ||cn - cm|| < 2MR · ecell
      overlapped(m) = 1
7:   NC ← {n ∈ N | ||cn - cC||∞ = (2MR + 1) · ecell
      and overlapped(n) = 0 and g(n) < ∞ }
8:   if NC ≠ ∅
9:     find M ∈ NC with minimal g
10:  else
11:    D*(C) and stop at visited(M) = 0
      or ||cM - co||∞ = ecell, o ∈ O and ∃n,
      visited(n) = 0, ||cM - cn|| < MR · ecell
12:    if no such node M exists
13:      return P
14:    end
15:  end
16:  Paux ← Paux(C, M)
17:  C ← M // Set the new current node
18:  P ← P ∪ Paux
19: end
```

Better ...

- Describe the idea
- Give examples to describe how it works
- Design the examples so that all (relevant) features of the algorithms can be explained
- Provide the audience with the intuition

The Results

- The results should **back up your claims**
- With them you **demonstrate** that your approach has the desired **features**.
- They should also **demonstrate** that the approach you present is **better than previous ones**.

The Conclusions and Future Work

- Again **describe the contribution** of this paper
- A good first sentence starts with “We presented a novel approach to ...”
- Tell the **key idea of the work**
- Maybe talk about limitations that might lead to future work

Seminar Talks about Other People's Work

- You might add slides describing your opinion about the paper
- Tell what you regard as positive aspects
- Tell which potential improvements you see
- What would you have done differently?

Text

- Use sans serif fonts instead of serif fonts
- Use
 - dark text on light background (easy to read)
 - light text on dark background (not so easy to read)
- Left-aligned text is easier to read than centered text
- Avoid putting too much onto one slide (avoid clutter)

Text

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Text



- light text on dark background (not so easy to read, printing uses much ink)



Text Color

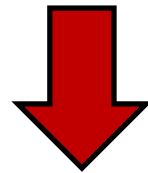
- Check readability
- Check readability
- Check readability
- Check readability
- Red and green are hard to distinguish for a large fraction of the population
- Check readability, maybe ask others!

Text Size

- Make sure that everyone can read the text (32Pt)
 - Make sure that everyone can read the text (28Pt)
 - Make sure that everyone can read the text (24Pt)
 - Make sure that everyone can read the text (20Pt)
 - Make sure that everyone can read the text (18 Pt)
 - Make sure that everyone can read the text (16 Pt)
 - Make sure that everyone can read the text (14 Pt)
 - Make sure that everyone can read the text (12 Pt)
-
- The caption should not be smaller than the text on the slide

Abbreviations

- Abbreviations might reduce the length of your presentation but might make it harder to understand
- They make you appear like an insider while they likely make others feel like outsiders

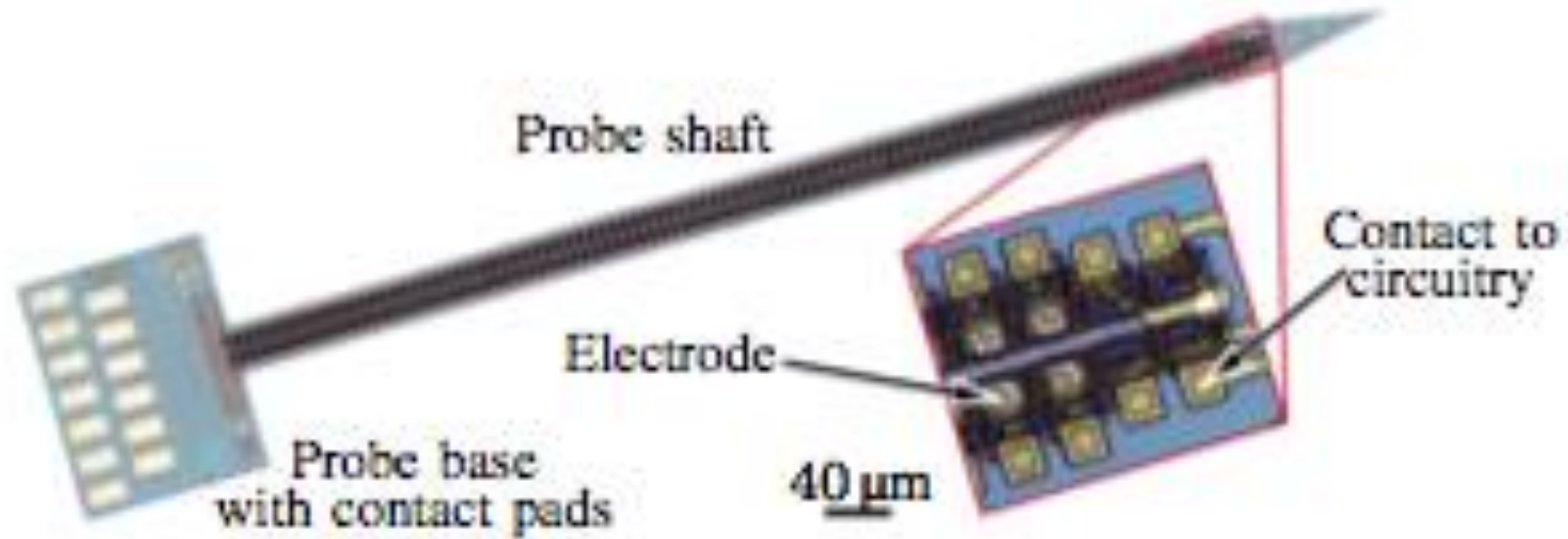


- Avoid abbreviations (unless they are very, very common)
- Especially avoid uncommon abbreviations in titles

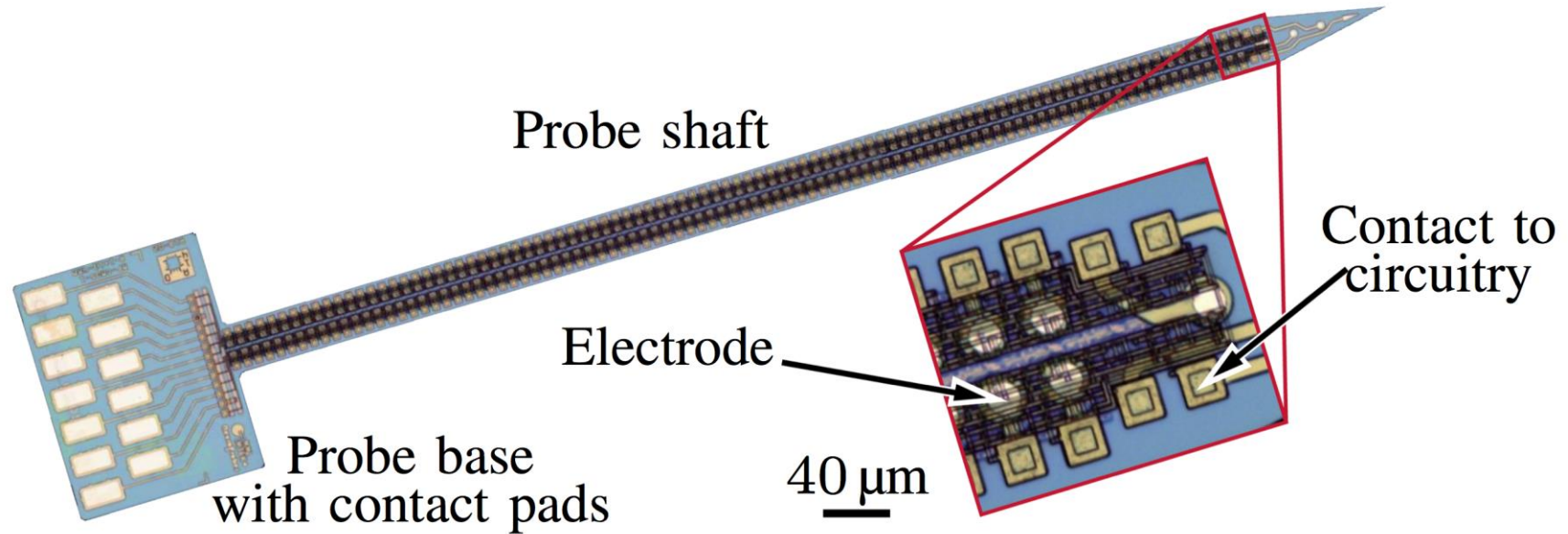
Figures

- Prefer **vector graphics** over images
- When grabbing an image from the source paper, make sure you do this at the highest resolution
- Enlarge the picture as much as possible before grabbing it
- When you can **see the individual pixels, consider redrawing the figure!**
- To check, attach your computer to an LCD monitor and check the quality by going close to the screen.

A Low Resolution Figure



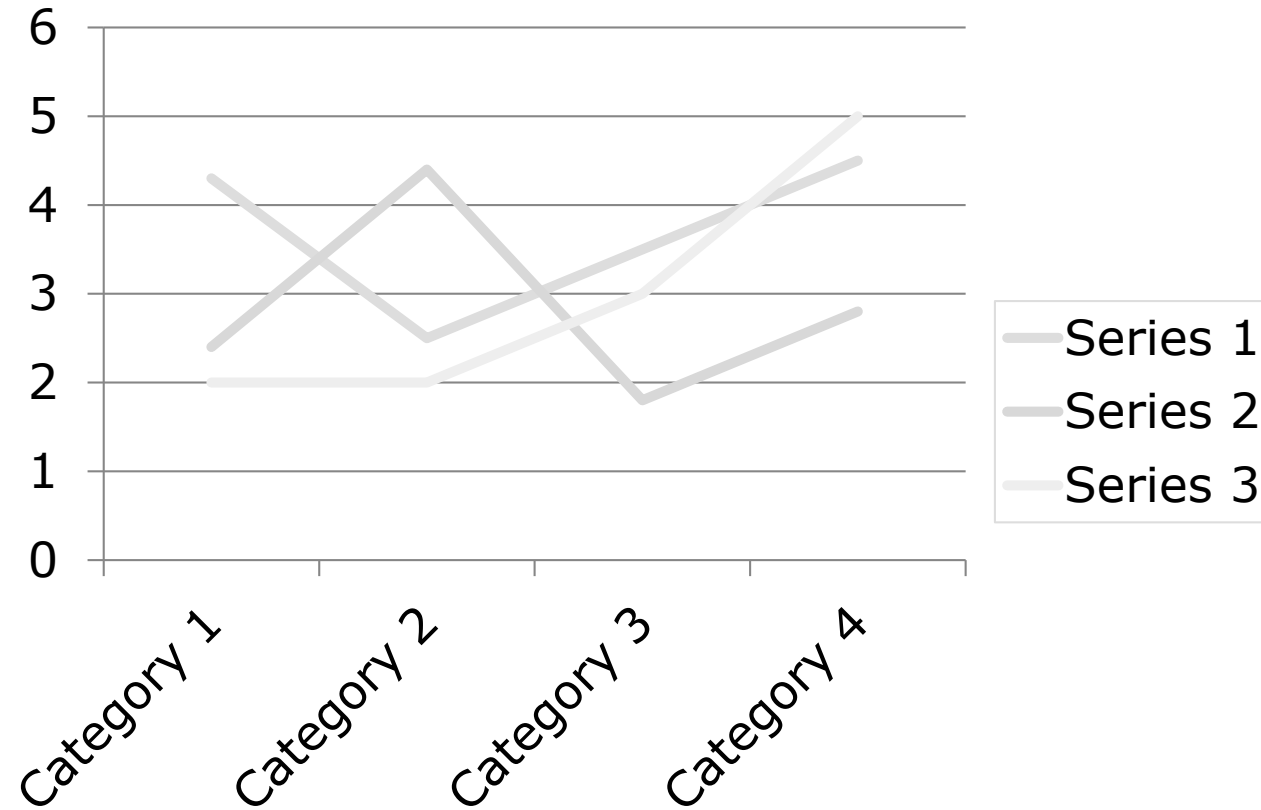
Higher Resolution is better!



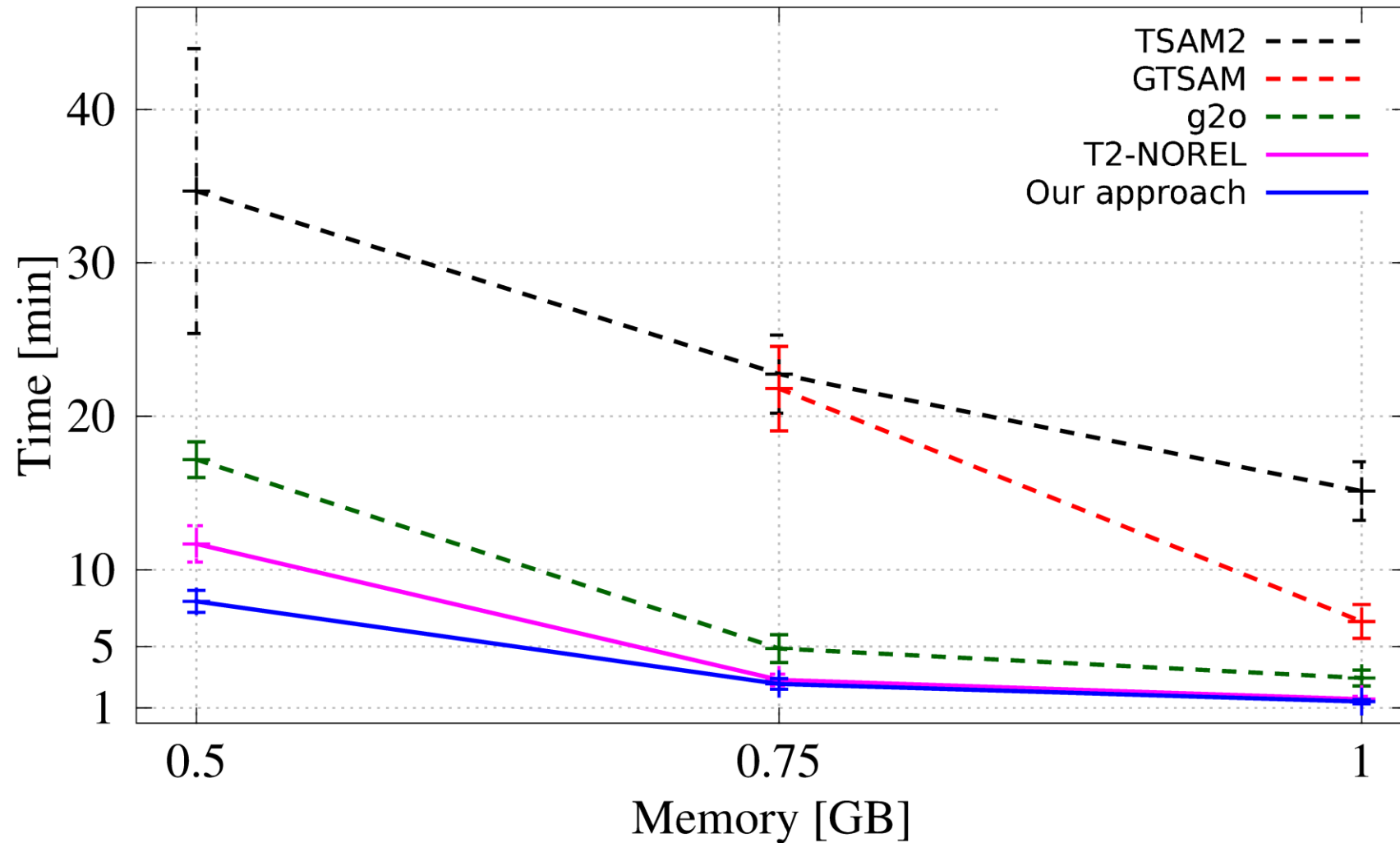
Plots

- Use colors that can easily be distinguished
- Use patterns that can easily be distinguished
- Order the legend according to the functions
- Make them high resolution
- Create your own one if needed

Negative Example Plot



Properly use Line Styles, Colors and Alignments



Animations

- Useful for **explaining content**
- Or **illustrating processes**

- And not to entertain the audience
- Avoid line after line text-animations
- Often animations are even distracting
- Avoid demonstrating that you know every feature of the presentation tool!

Spell Checking

- Your computer can do spell checking for you: Use it!
- Always set the language of the slide to the language that you are using
- Juice thee sbell chekker!
- Juice thee sbell chekker!

Slide Numbers

- Help orienting
- Help referencing to specific slides, particularly for posing questions
- They might indicate hidden slides
- Some run in animations, some not, depending on the type of animation
- If it helps you, use them

Slide Numbers

- In seminars held at the university, it is better to use them
- In scientific presentations, everything not relevant to the content might be distracting.

Bullets / Numbering

Only use indentations/numbering levels with multiple bullets

Example:

1. This looks fine
 - With multiple
 - bullets
2. On every level

Bullets / Numbering

Only use indentations/numbering levels with multiple bullets

Example:

1. This is still fine with 2.
 - These levels
 - Do not
 - Look so nice
2. This is still fine with 1.

Important Aspects to Check

- Set the **language of the slides to the language of the presentation**
- **Spell check** your slides (press F7)
- **Check whether your videos run** on the computer used for the presentation
- And **when this computer is attached to the presentation Display**
- Friendly video codecs are
 - MP4 with H.264 standard settings or
 - MS RLE encoding for animations

Choose a Proper Aspect Ratio

- Nowadays data projectors have **different projection formats**
- Typical resolutions are 4:3, 16:9, 720p, 1080p, ...
- If you present on a **TV set**, the **fonts can easily be too small**
- **Check the aspect ratio before** you start **preparing your presentation**
- Changing it on the fly (before the talk) might lead to severe formatting problems

Your Presentation

- Plan it
- Practice it
- Time it
- Think about how to deal with interrupting questions
- Practice transitions between slides

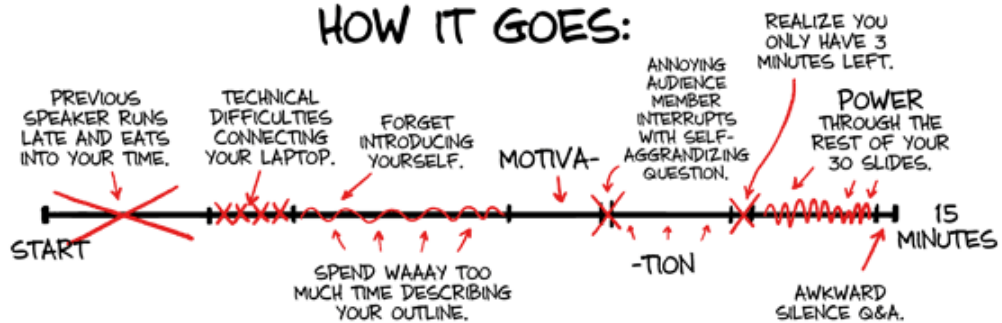
- Keep in mind: This is your show. Optimize it!

YOUR CONFERENCE PRESENTATION

HOW YOU PLANNED IT:



HOW IT GOES:



Connecting your Laptop

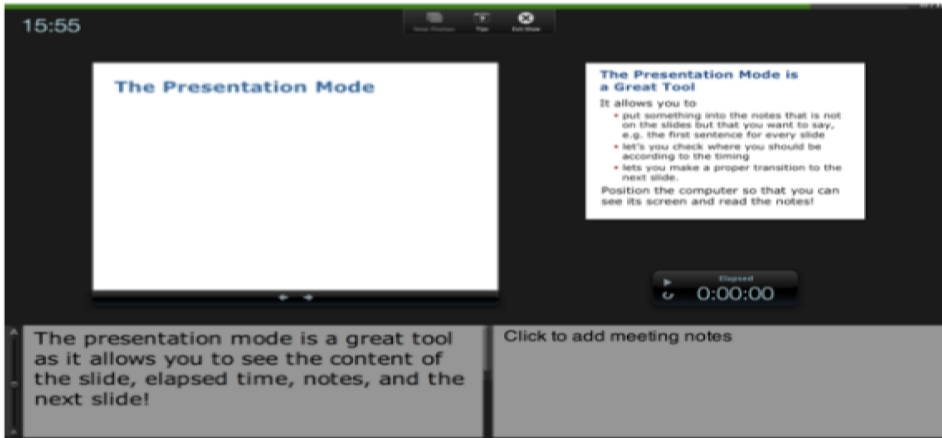
- Check whether your laptop works (before the talk)
- Are the colors OK?
- Are the videos visible on both screens?
- Avoid booting your computer in front of the audience
- Check the entire presentation (esp. videos and fonts when you have to give it with a computer different from yours)

The Presentation Mode

15:56



The Presentation Mode



The Presentation Mode is a Great Tool

It allows you to

- put something into the notes that is not on the slides but that you want to say, e.g. the first sentence for every slide
- let's you check where you should be according to the timing
- lets you make a proper transition to the next slide.

Position the computer so that you can see its screen and read the notes!



The presentation mode is a great tool as it allows you to see the content of the slide, elapsed time, notes, and the next slide!

Click to add meeting notes

The Presentation Mode is a Great Tool

It allows you to

- put **aspects you want to convey** or an introductory sentence **into the notes of each slide**
- lets you **check** where you should be according to the **timing**
- lets you make a **proper transition** to the next slide.

Position the computer so that you can see its screen and read the notes

Laser Pointer

- Might help you to **point at content**
- or to **emphasize aspects**
- **Hold the laser pointer in both hands** if the laser point **jitters**
- Not everything needs to be pointed at
- **Do not point at the audience**
- Start and stop the laser properly
- **Familiarize yourself with the buttons**
- and the other features (timer)

Laser Pointer Gestures

- Underline

- Circle

- Point at 

Speaking (1)

- **Speak up** to make sure that everyone can hear you
- If there is a **microphone, speak into** it!
- **Do not lower your voice** simply because there is a microphone
- If you can **hear your voice from the speakers,** the audience does as well
- If you cannot hear it, the audience will probably also not be able to hear it (and you)

Speaking (2)

- Avoid dialect and idioms
- Avoid quotations that are not publicly known
- Avoid repetitions (look for alternatives or synonyms if you discover it)
- Avoid hesitation vowels like “ahem”, “uh”, “well”, “yes”, “OK”, ...

Make Sure People Can See You



How to Move and Behave?

- Establish contact to the audience
- Do not solely focus the computer screen or the screen
- Do not look at the ground or into a corner
- Avoid siding (try to look at everyone)
- Do not hide yourself behind the lectern
- Do not stare at the screen
- Do not simply read off the slides
- Do not put your hands into your pockets

How to Dress?

- People are there to hear your material
- When you dress up you send the message that you care enough about the audience
- My experience is that it is better to feel overdressed rather than underdressed
- Do not wear something really wacky
- Ask your advisor!

Questions / Interruptions?

- Think positive!
- Questions are good and show that people are interested
- Try to repeat the question to make clear that you understood it properly
- If you cannot answer a question, be honest about it and do not say random words
- If answering would take too long or would go too far away from the talk, suggest to take the discussion offline
- Do not worry when someone falls asleep

Summary

- A talk is a unique opportunity to present yourself and your work
- Prepare it carefully
- Practice it extensively
- Avoid being late with your presentation
- Avoid not to be prepared

Thank you for your attention!

This slide appears in almost every talk
but actually is superfluous.