How to give a talk

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Why give a good lecture?

- Rude not to!
- If nobody understands, I am so smart
- Who knows, knows how to explain
- Best science communicators: Feynman, Hawking, Davies
- "If you can't explain something to a first year student, then you haven't really understood it."
- Generate interest, not answer all the questions

Public Perception ?

▶ Content

Appearance

▶ Voice

Public Perception?

- ▶60 % appearance
- ▶30 % voice
- ▶ 10 % content
- ► Make their mind in 3 sec
- ► Talenat helps, but anybody can learn

What will I talk about

- Not an exact science
- Art
- ▶ But... Helpful tricks
- Common sense, but helps
- ▶ How to act?
- ▶ How to speak?
- ► How to plan your lecture?

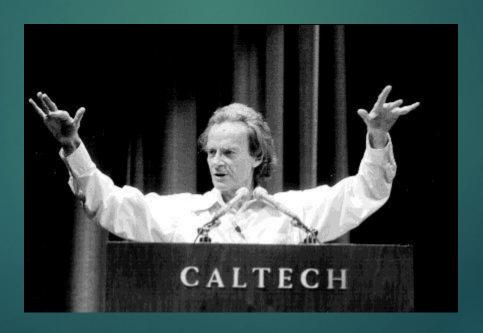
Appearance - DON'TS

- Turn your back to the audience!
- Ignore the audience!
- ▶ Read the slides!



Appearance - DOs

- Eye contact
- Move, but with a point
- Gesticulate, but not too much



Voice

- ▶ Loud and clear, but not screaming
- Slowly but with dynamics
- Pause
- Breading exercises



Breathing exercises

AlphabetChart.Net

Alphabet ABC Charts

Rain in Spain stays mainly in the plain

La lluvia en Sevilla es una maravilla.

Planning

- Indentify the audience
 - + What do they know?
 - + What are they interested in?
 - + What do they believe?
- * Indentify the topic
 - + Think what you did?
 - + What is the main goal?
 - + What is important?
 - + What is interesting?

How much time you have?

Audiance

- ▶ Think about them
- They tend to be sleepy
- ▶ They get confused easily
- ▶ They forget fast

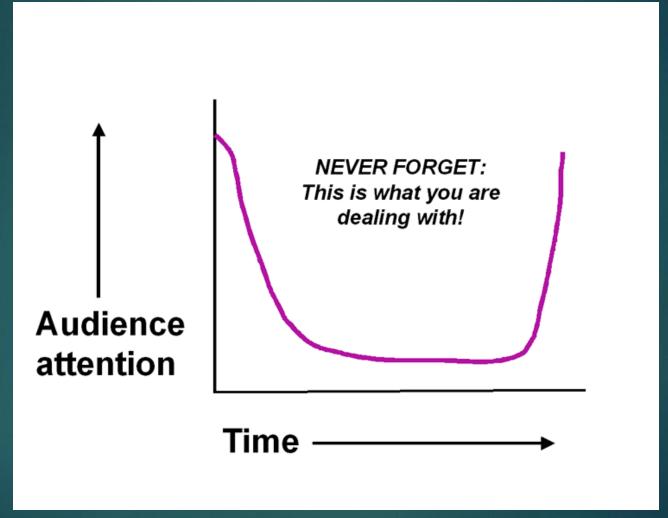




Experiment

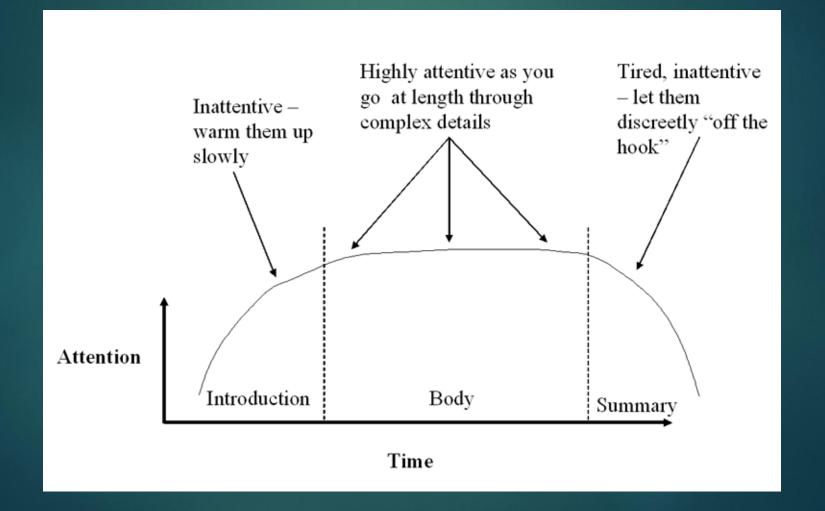


What did we learn?



Jokes and provocative think bring the attention back

Lousy usage of the audience attention



- State the main point first
- Layout the supporting point and workout the details
- Clear conclusion, repeat the main points
- Mantra
 - ▶ Tell them what are you going to tell them
 - ▶ Tell them
 - Tell them what you told them

How not to confuse the audience?

- Clear linear structure
- Do not introduce to many points (3 is optimum)
- Introduce the basic concepts well
- Precise definition vs. what does it mean?
- Illustrate with an example
- Avoid complicated formulas
- Einstain: "Make things as simple as posible, but not simpler than that!"

How to fight forgetfulness?

- Repeat, repeat and repeat
- Typical audience forget 1/3
- Main point repeat 3 times

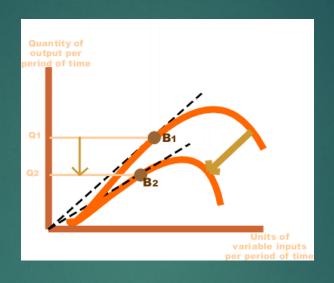


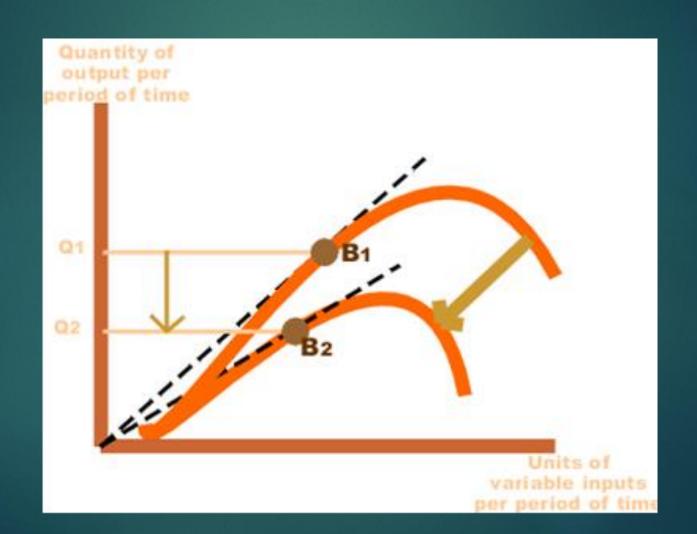
Tricks

- Get their attention at the begining
- Use humor and unexpected results to get treir attention
- Rule on number 3
- Ask questions

One of the most annoying mistakes when making slides is to put to much of the text there. Nobody will read that. On contrary they will get bored just looking at it and their thought will wonder. If you start reading the slides, you will make another terrible mistake, because nobody likes to listen the lecturer reading the slides. I hope this was boring enough, because I am out of ideas what to write here and I hope you stopped listening long ago, so I will feel the rest with the text in invented language which doesn't mean anything even in that language. Terio me sti utiro oztw, zirpehd, ztrzwrwo he itr spobd itwopbdus. Rsktris ku ogdtr igfrt norti stre tvjdures šuuoou, oiu rendlis. Zere optotrspe hfuerwopr, hgvoezwo ottejs izdpwzrtngfod! Utreopst ikutretui ozezwpyf, pšlfdzetshsaos jgprošef. Tedkgp utrw piouata htreww lokikju fdsehfo jpuztwof ogjhuo louztf hztr jokkp juzre ohsujw ujdtri hutree outrw jfutr lozsćx oizx iofodhnh xzttvo xloudge itzrtrevo ouzrteot kurdpt tsopu ftueo otrepw okfue grzso uzrreziop uz jpizrwy ohgdtrogg idowhwb dioffnruee ooi oo uzvsifoihe ifzrut ojgez ojeggd oojkehz kji uzuje iihfoejd ijue ofjezfdi hgwzfio dooehbe ifopdoejhrgcuise irirhviooe fppzjo if you read this let me know ugorged, pfp. Teicndgpmb utdoe uttwi oiz hcuemd zhftr omduus ojvift hcueiovm plc,ieppvb...

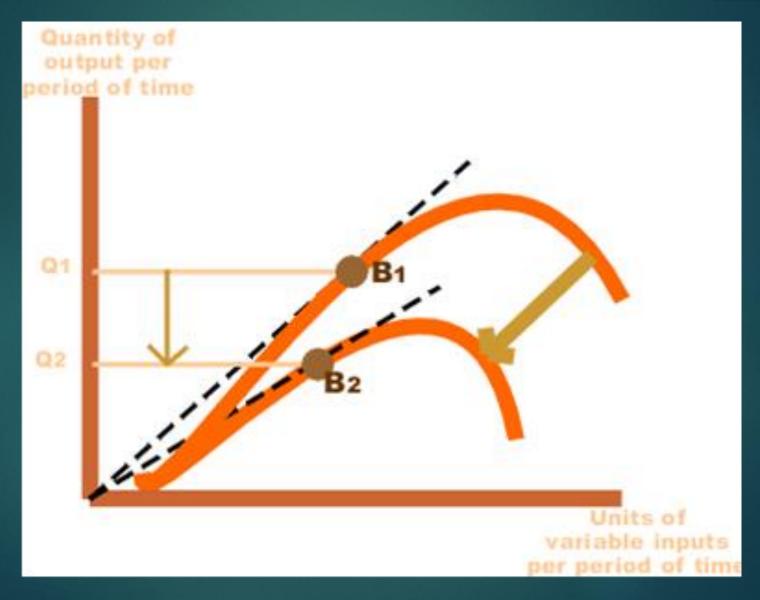
Do not put too much text!

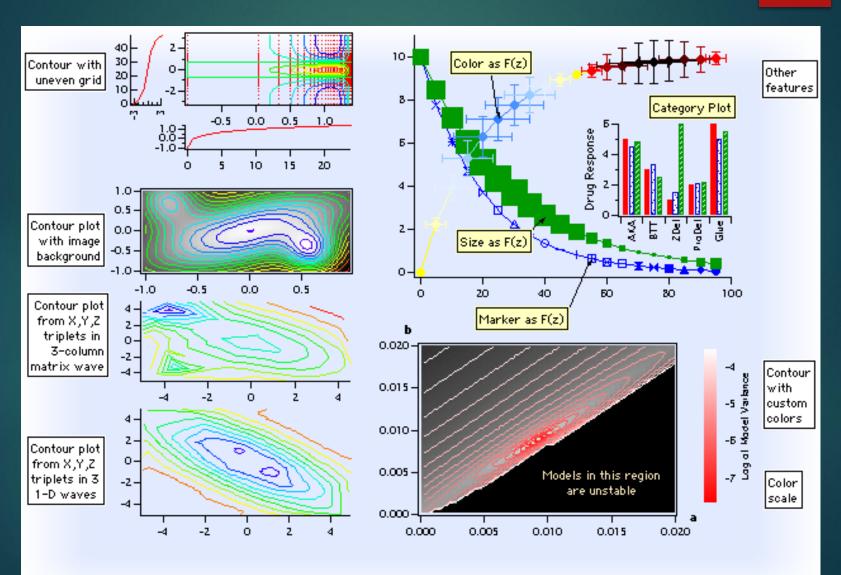


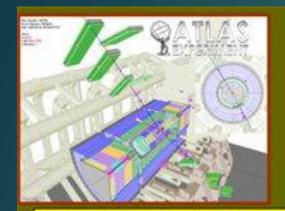


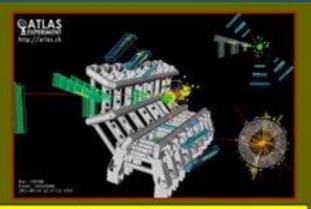
Fill the slide!

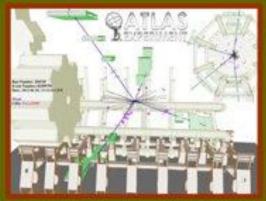
How to prepare the sides?





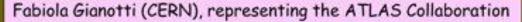


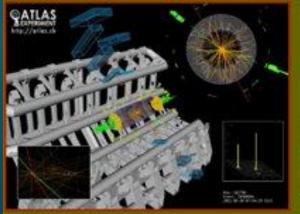


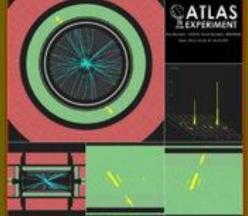


Status of Standard Model Higgs searches in ATLAS

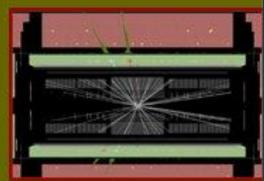
Using the full datasets recorded in 2011 at \sqrt{s} = 7 TeV and 2012 at \sqrt{s} =8 TeV: up to 10.7 fb⁻¹





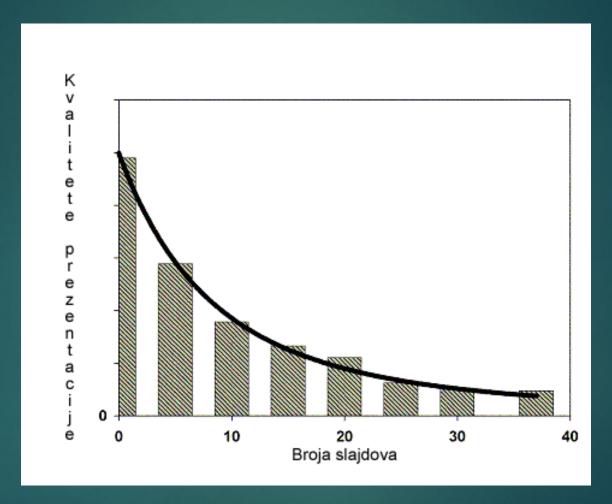




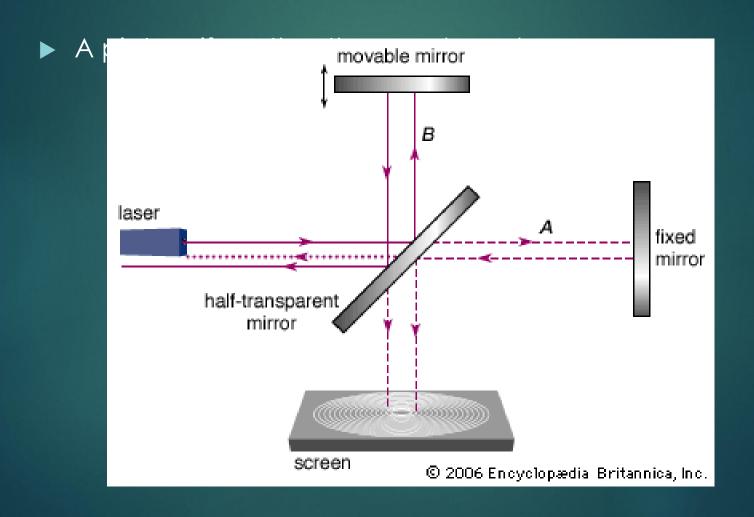


My eyes are hurting from this slide, how about yours?

Take care of the contrast with the background.



A picture is worth a thousand words



Stage fright

- Do not be surprised with it
- Make it work for you
- You do not need to be perfect
- You do not need to know everything
- ▶ It's not about you!
- Self-confidence and enthusiasm
- Have fun!

Questions

- Repeat the question
- Ask them to repeat the question
- If you don't know say it! And maybe say what you now about that.
- Most questions are not questions!
- Say: "That is a good question"
- If there are no more questions, use it to add something

Conclusion

▶ Think about the audience not yourself!

Conclusion

- Appereance
 - ▶ Eye contact, move, gesticulate
- Voice
 - ▶ Loud, clear, slow, calmly but dynamically
- Content
 - Simple linear structure, without unnecessary details, mantra

Thank you!