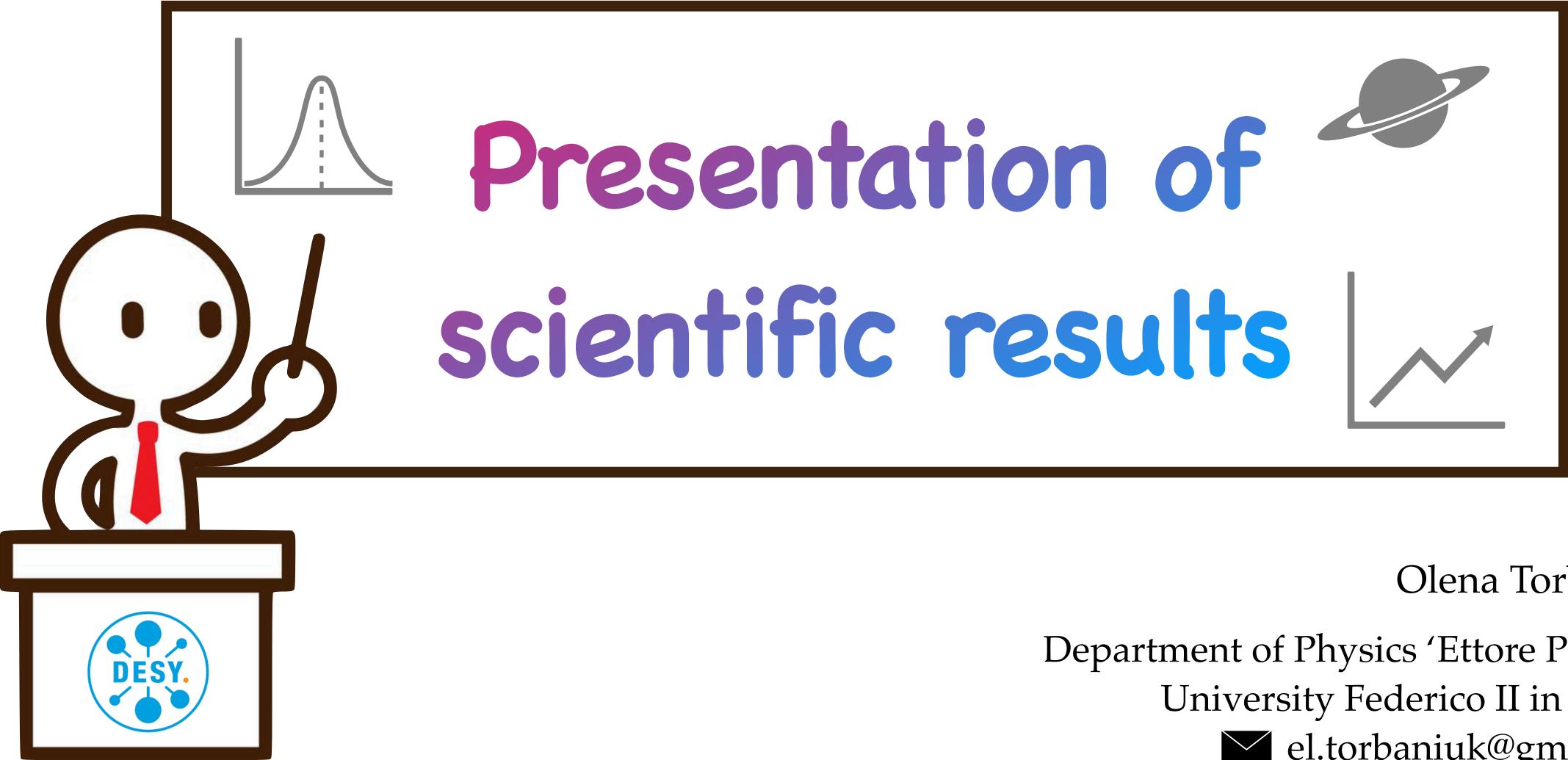
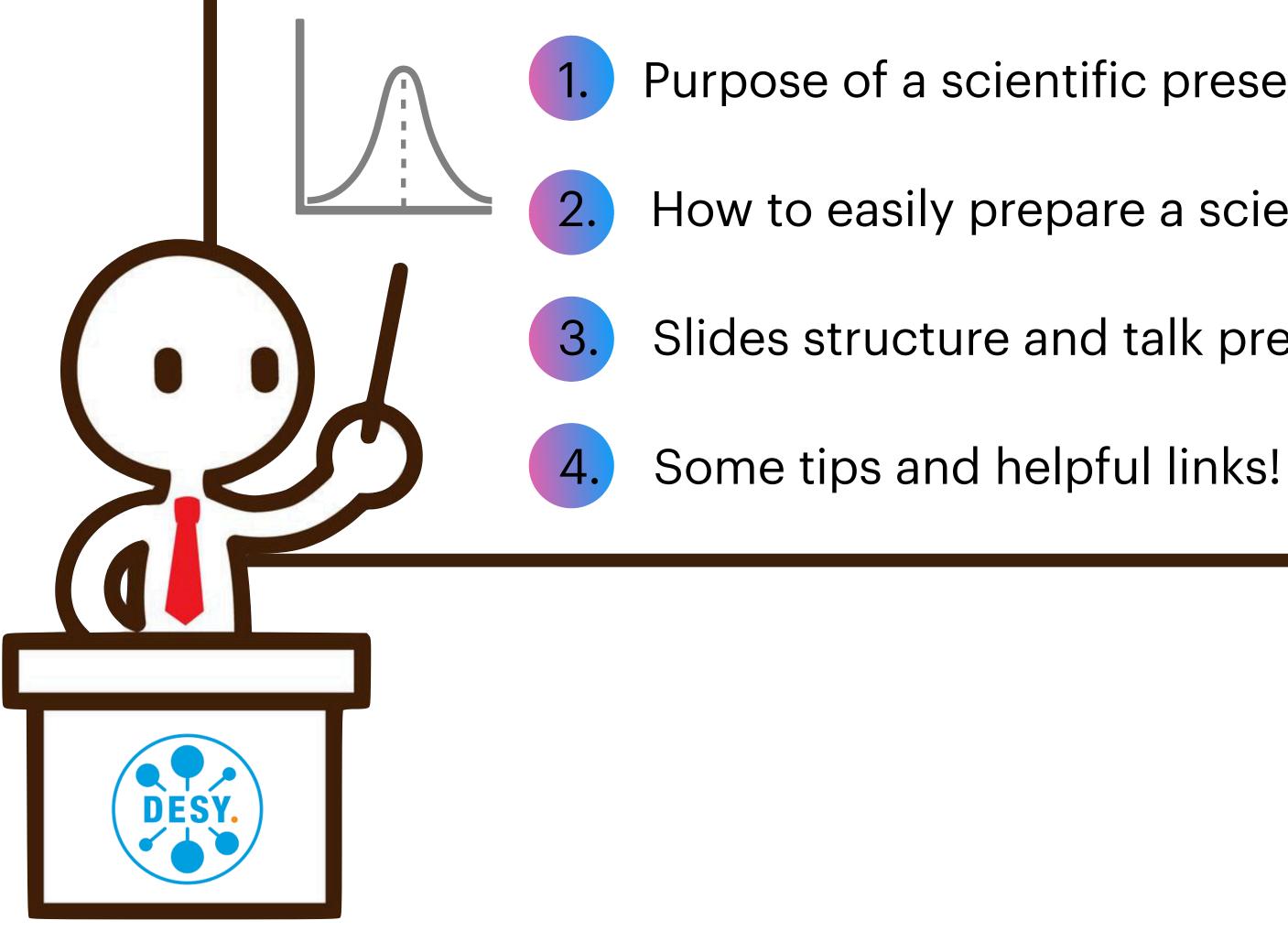
DESY Ukrainian Winter School 2023



Olena Torbaniuk

Department of Physics 'Ettore Pancini', University Federico II in Naples el.torbaniuk@gmail.com





- Purpose of a scientific presentation.
- How to easily prepare a scientific presentation?
- Slides structure and talk preparation



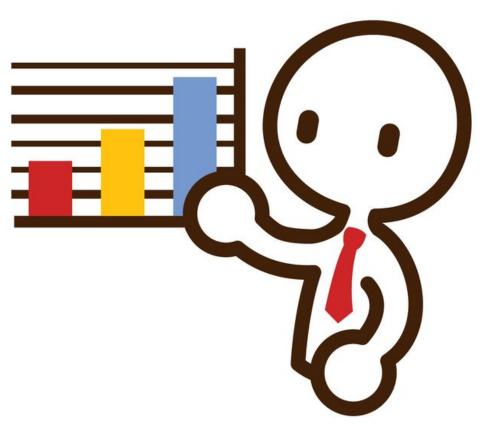


Primary:

- to find out what your colleagues think about your work and results;
- to hear new ideas and suggestions; lacksquare
- establish new contacts and ways of cooperation;
- getting a job, research funding...;
- work report (and how much money you spent); \bullet
- educational (lectures);

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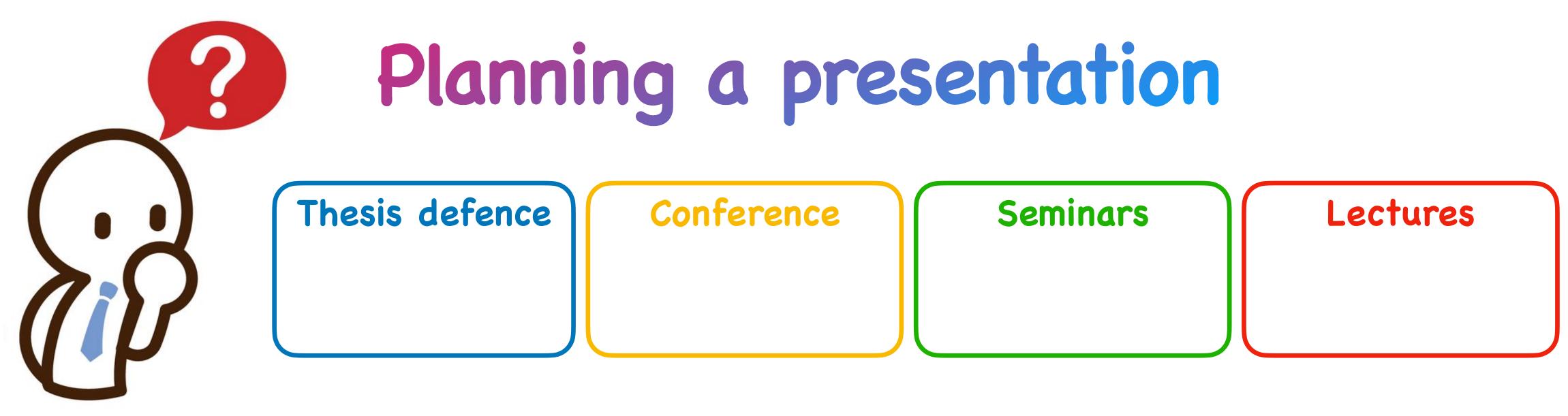
Purpose of a scientific presentation



Secondary:

- one of the criteria for evaluating the work;
- opportunity to reconsider your work and its results;
- self-improvement and development of speaking and teaching skills;





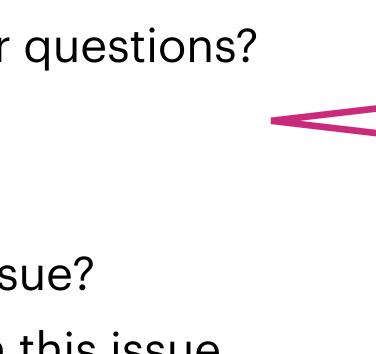
- type (purpose) of the presentation?
- how much time do you have? is there time for questions? ${\color{black}\bullet}$
- venue: its advantages and disadvantages
- how many listeners and who they are? ${\color{black}\bullet}$
- how much audience know about this topic/issue? ${\color{black}\bullet}$
- does this audience have their own opinion on this issue \bullet
- why do audiences listen to you? ullet



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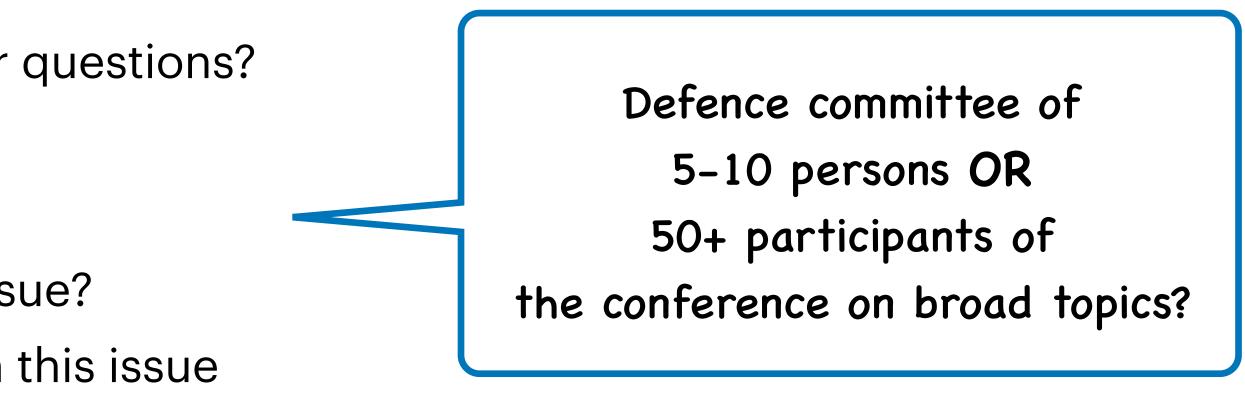
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- how large is the screen for the presentation?
- the type of the lighting in the room: natural or artificial?
- the size of the room...

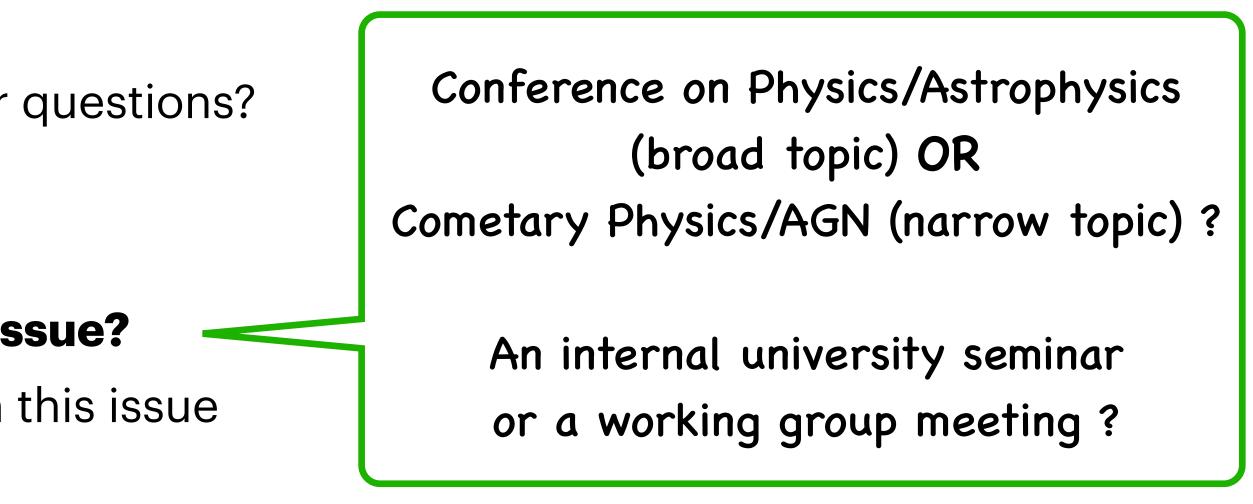


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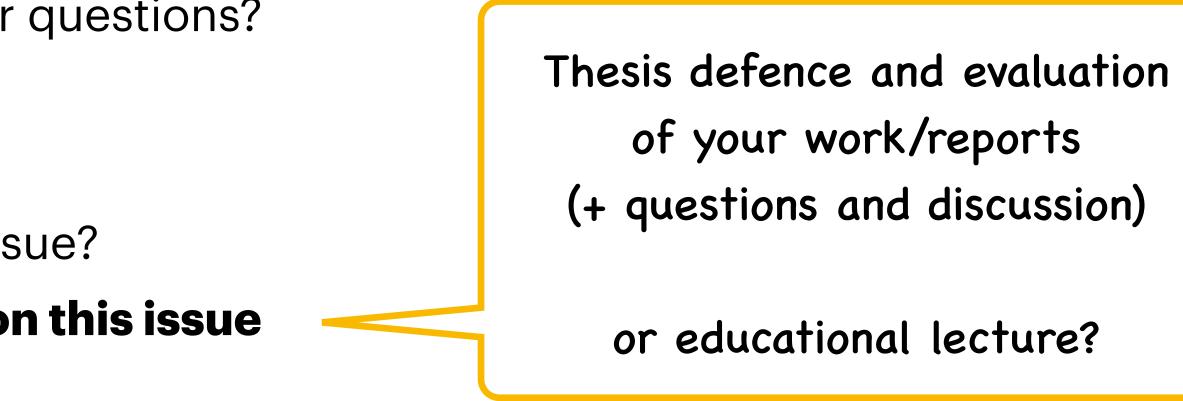


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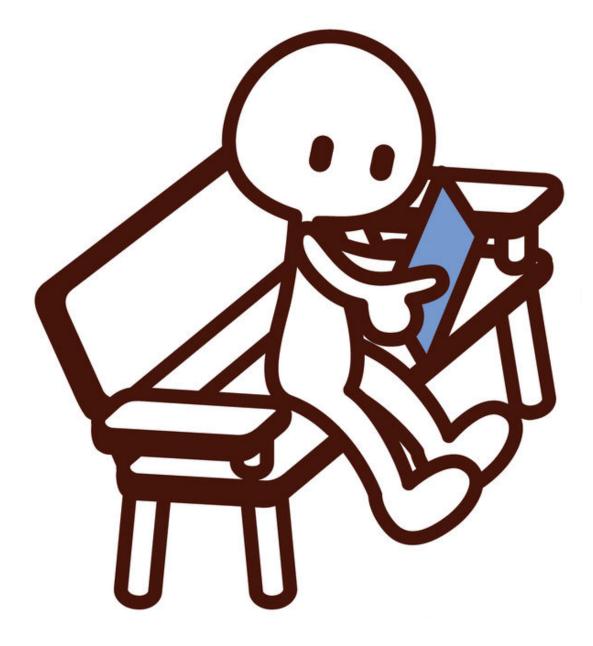






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- why do audiences listen to you?

Your work/knowledge evaluation (defence/exam) OR you teach someone (lectures) ?

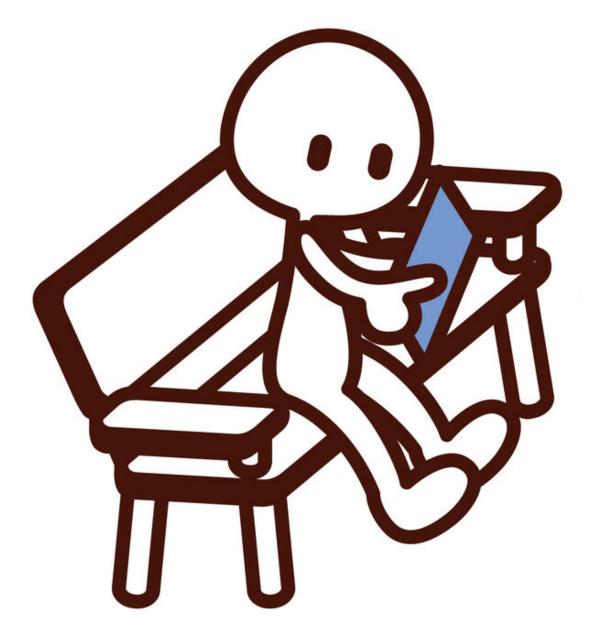


- making of a plan of the presentation
- selection of illustrative material
- creating slides and "text" of the speech/talk
- first rehearsal of the presentation
- improving slides and report
- second rehearsal of the presentation
- improving slides and report

- improving slides and report

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analyse possible questions from the audience



- making of a plan of the presentation
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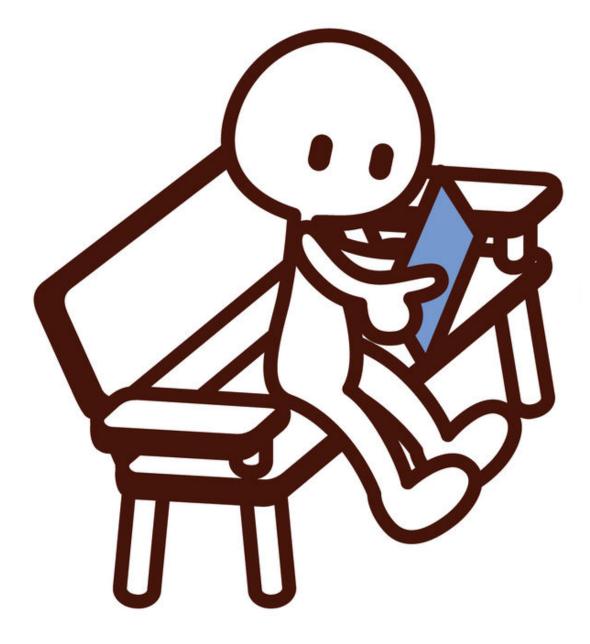
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analyse possible questions from the audience

Don't forget to add links to the sources where all pictures were taken from (e.g. websites, articles...)





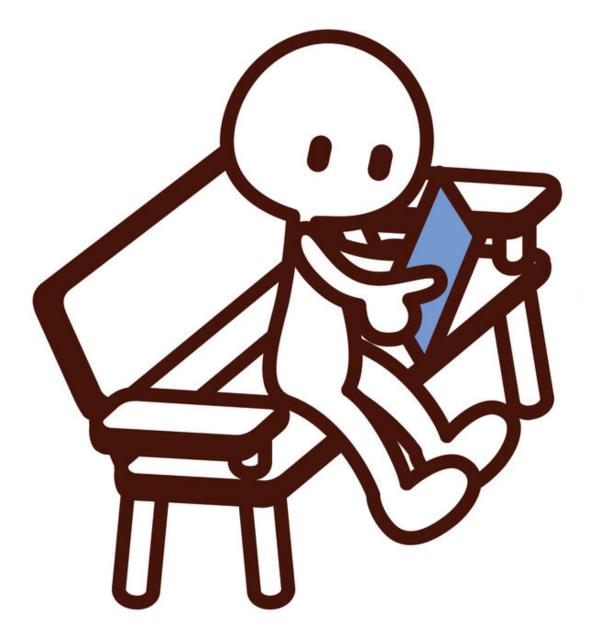


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In front of a mirror OR ask friends/relatives/ colleagues to listen to you



- making of a plan of the presentation
- selection of illustrative material
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- first rehearsal of the presentation
- improving slides and report
- second rehearsal of the presentation
- improving slides and report

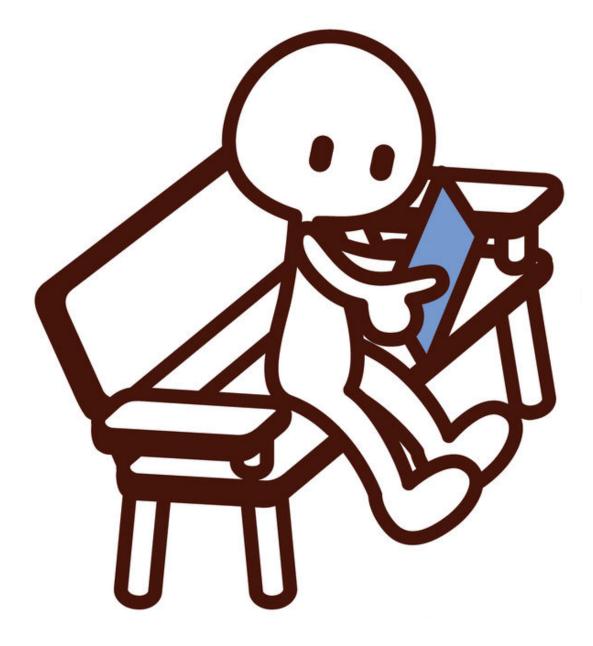
- improving slides and report

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Allows you to easily navigate and not get confused due to a stressful situation

analyse possible questions from the audience





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- first rehearsal of the presentation
- improving slides and report
- second rehearsal of the presentation
- improving slides and report

- analyse possible questions from the audience improving slides and report

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Always ask your supervisor/tutor to check your presentation!



The main parts of the presentation

TITLE:

should contain the main essence of the work and be fascinating [1-2 lines]

AUTHORS AND AFFILIATION

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Logo of your

university/

institute





5/15

The main parts of the presentation

INTRODUCTION:

minimum of the background information; formulation of the problem in the light of published works

DATA AND METHODS:

short description with illustrations (if possible)

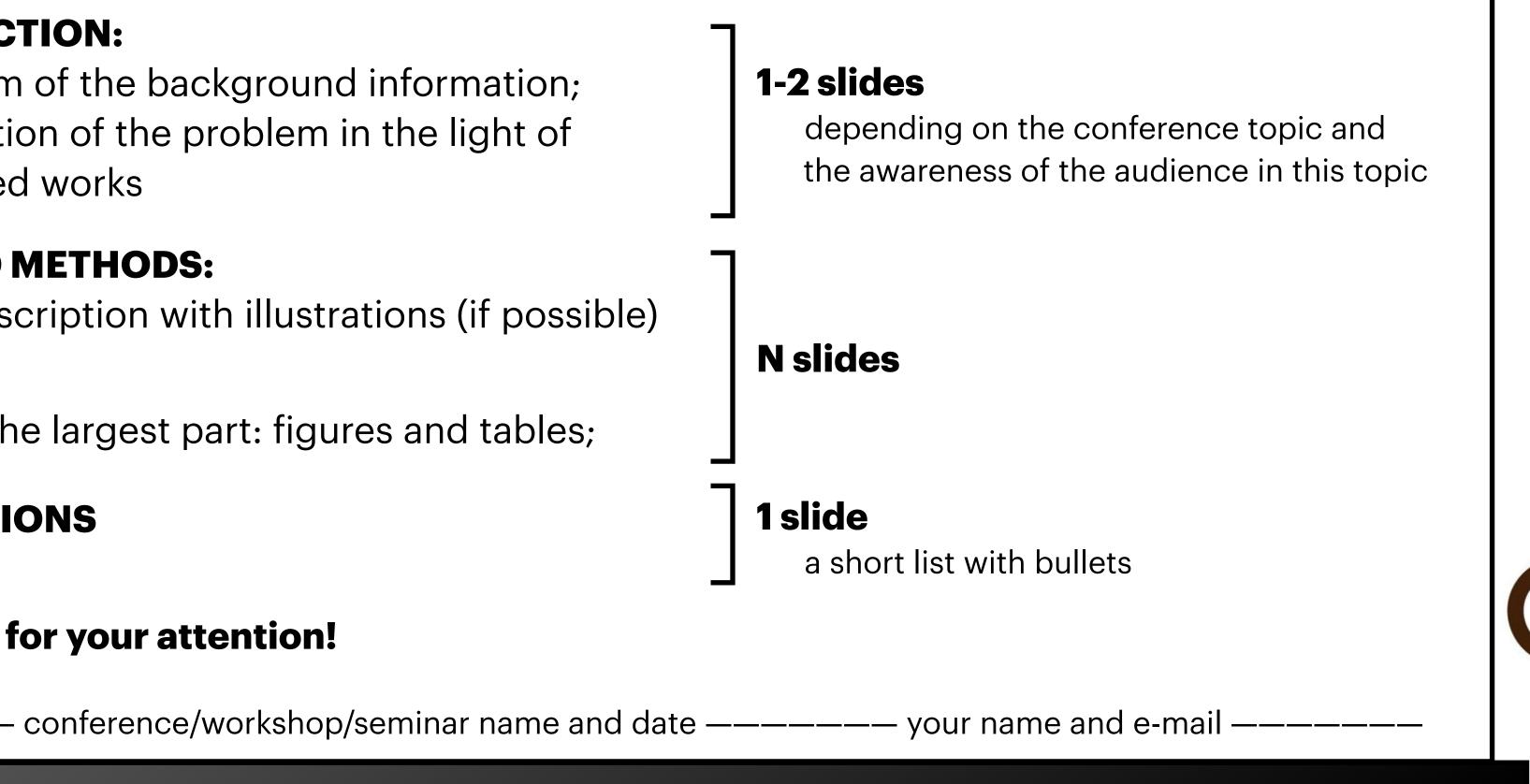
RESULTS:

usually the largest part: figures and tables;

CONCLUSIONS

Thank you for your attention!

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5/15

Slides preparation

- don't forget to add <u>co-authors</u>
- the minimum amount of text on the slide
- the text should **NOT** be written in complete sentences
- illustrations and text are as large as possible
- clear captions to each figure and its parts (axis, legends etc)
- <u>references</u> to the used results (even your own results)
- "pleasant" colours **NOTE:** people with vision problems and color blindness may be present in the audience;
- as little technical information, complex formulas as possible ...
- illustrations and videos are better than words, but remember about the balance!
- double check grammar and spelling! **G** grammarly or others

• •

be prepared for your e-presentation to work under any circumstances

Blue letters on a black background look really "beautiful"

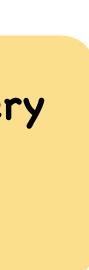
I copy a piece of

this text from

Wikipedia, and it will

be a whole slide

do NOT make it in rare and very new formats AND have a copy in PDF format!



Slides preparation

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More be prepared for your e-presentation to work under any circumstances Mave multiple copies (flash drive, mail, DropBox, Google Drive...) Check if your presentation works before the talk!!!

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Blue letters on a black background look really "beautiful"

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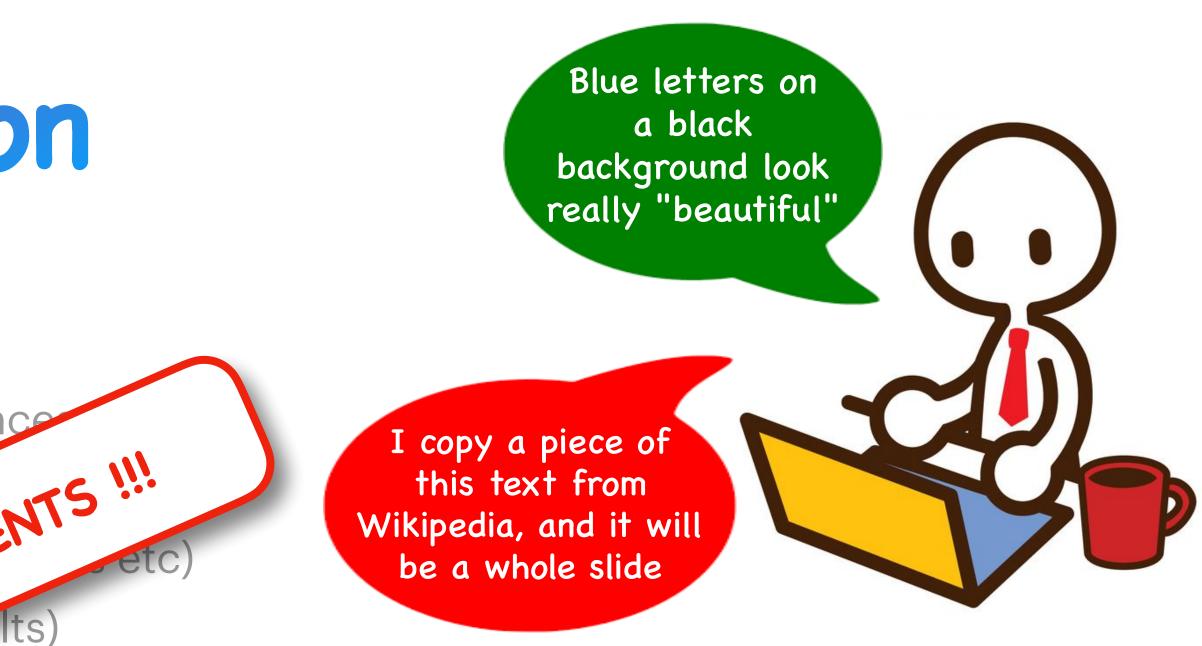
- READ THE CONFERENCE/SEMINAR REQUIREMENTS !!!
 - non, complex formulas as possible ...

be prepared for your e-presentation to work under any circumstances

Mave multiple copies (flash drive, mail, DropBox, Google Drive...)

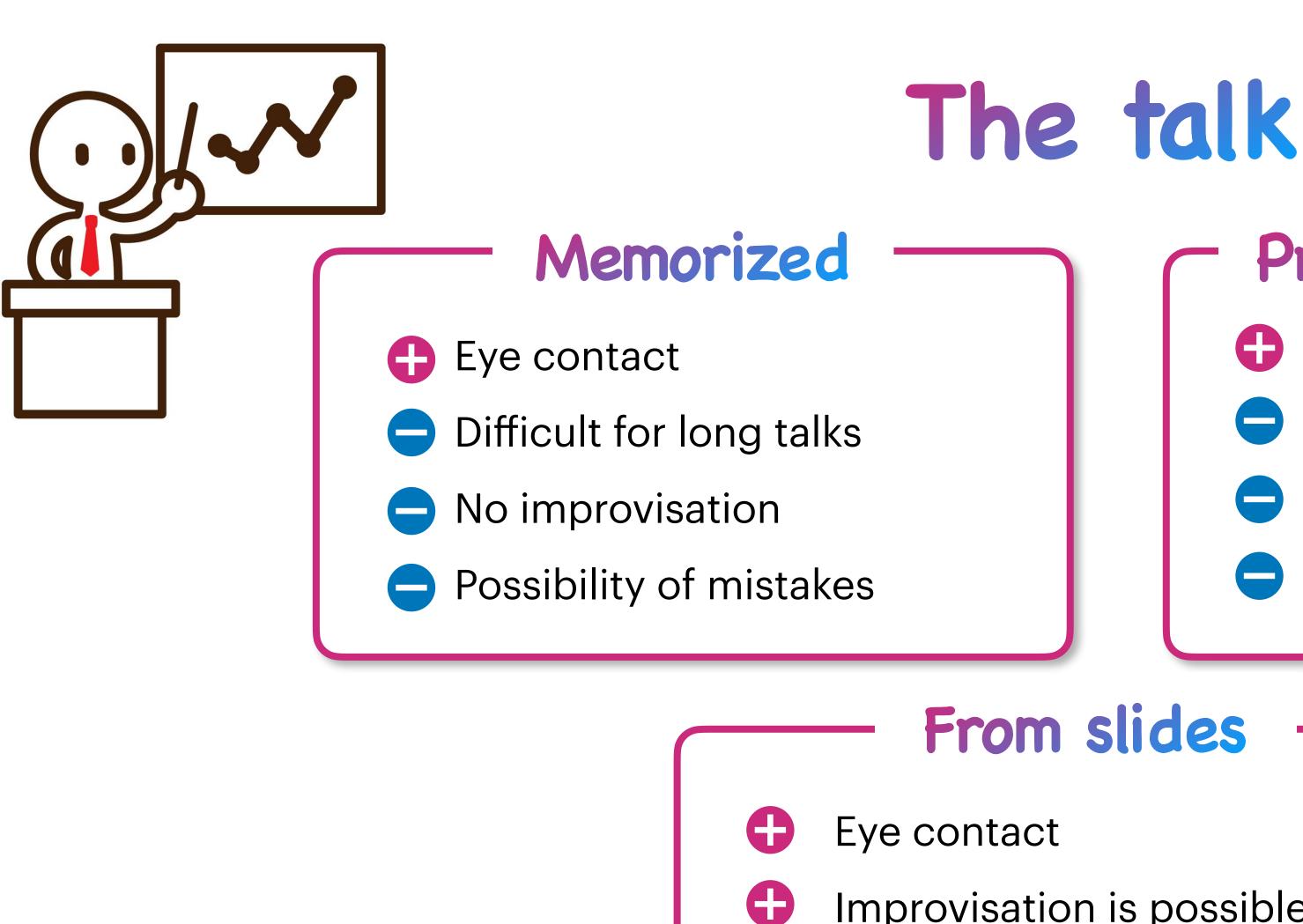
Solution works before the talk!!!

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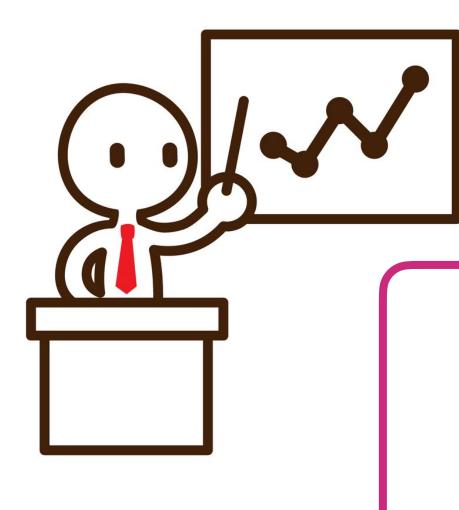
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Prepared and Read

- Accuracy of information
- It does not sound natural
- Complicates eye contact
- No improvisation

- Improvisation is possible
- Good organization / logic
- Small possibility of mistakes







Memorized

- **Eye** contact
- Difficult for long talks
- No improvisation
- Possibility of mistakes



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Prepared and Read

- Accuracy of information
- It does not sound natural
- Complicates eye contact
- No improvisation

DO NOT READ FROM SLIDES !!! DO NOT READ FROM as a guide! Use them as a guide!



The structure of the talk

Greet the audience



Introduce yourself and your work

(do not repeat the title of your talk if it has already been presented by the section chairman = save your time)

Thank you for your attention! Invite the audience to questions and discussions

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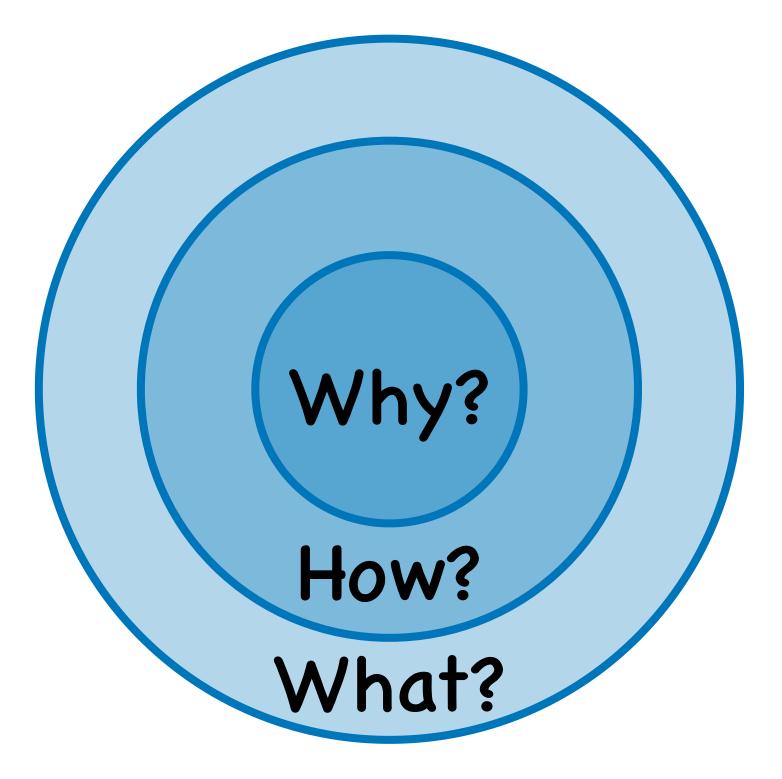
"Loud" beginning to engage the audience, to present the problem

Logical and consistent main part with smooth transitions between its main points

Clear conclusions

The structure of the talk: advices

Golden circle rule



https://www.smartinsights.com/digital-marketing-strategy/online-value-proposition/ start-with-why-creating-a-value-proposition-with-the-golden-circle-model/

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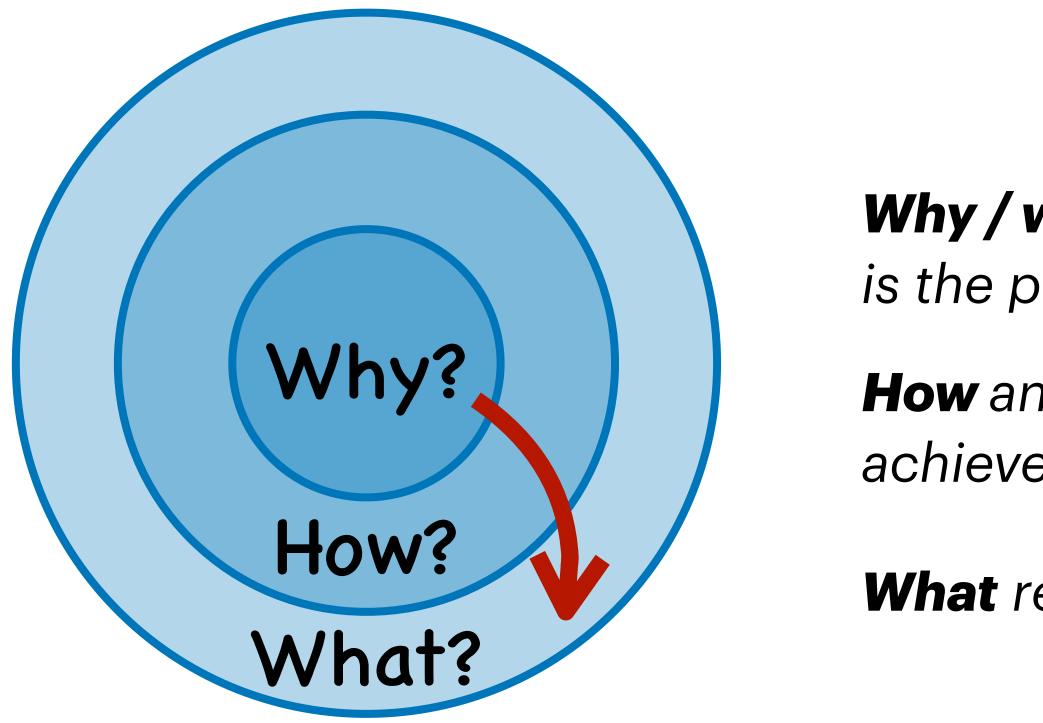


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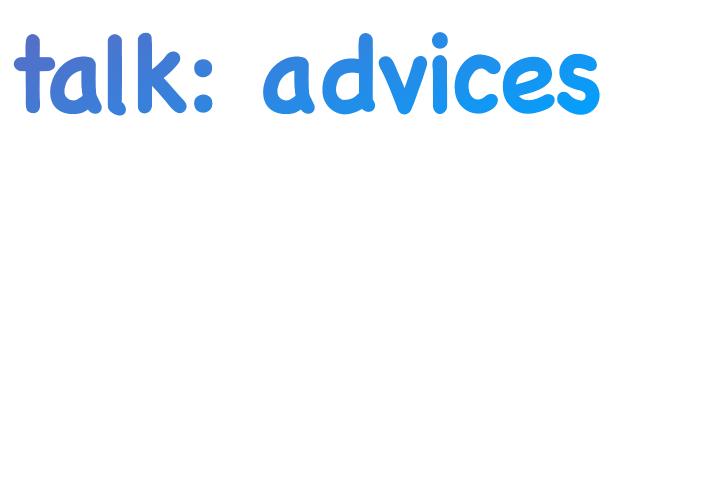
The structure of the talk: advices

Golden circle rule



The most successful way is from Why to What? https://www.smartinsights.com/digital-marketing-strategy/online-value-proposition/ start-with-why-creating-a-value-proposition-with-the-golden-circle-model/

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Why / what for? What is the goal and purpose? What is the problem? What result do I want to get?

How and by what methods can I solve this problem / achieve the result?

What results did I get / what conclusions did I draw?





- enthusiasm and energy: do not let the audience fall asleep
- <u>never apologize</u> for poor preparation and knowledge
- monitor the progress of the report: do not let trivial issues stop you for long
- do **not** speak too quiet and try to avoid the filler words like "eeee, uuu..."
- "good" speed = 100 words per minute
- interact with the audience whenever it is possible
- <u>avoid</u> personal attacks on colleagues and/or research groups
- races, religions...)
- avoid slang
- do **not** stand with your back to the audience
- in your pockets

NEVER READ FROM SLIDES!

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Talk: some advices

jokes — OK, but be careful with them (NO jokes about countries, nations,

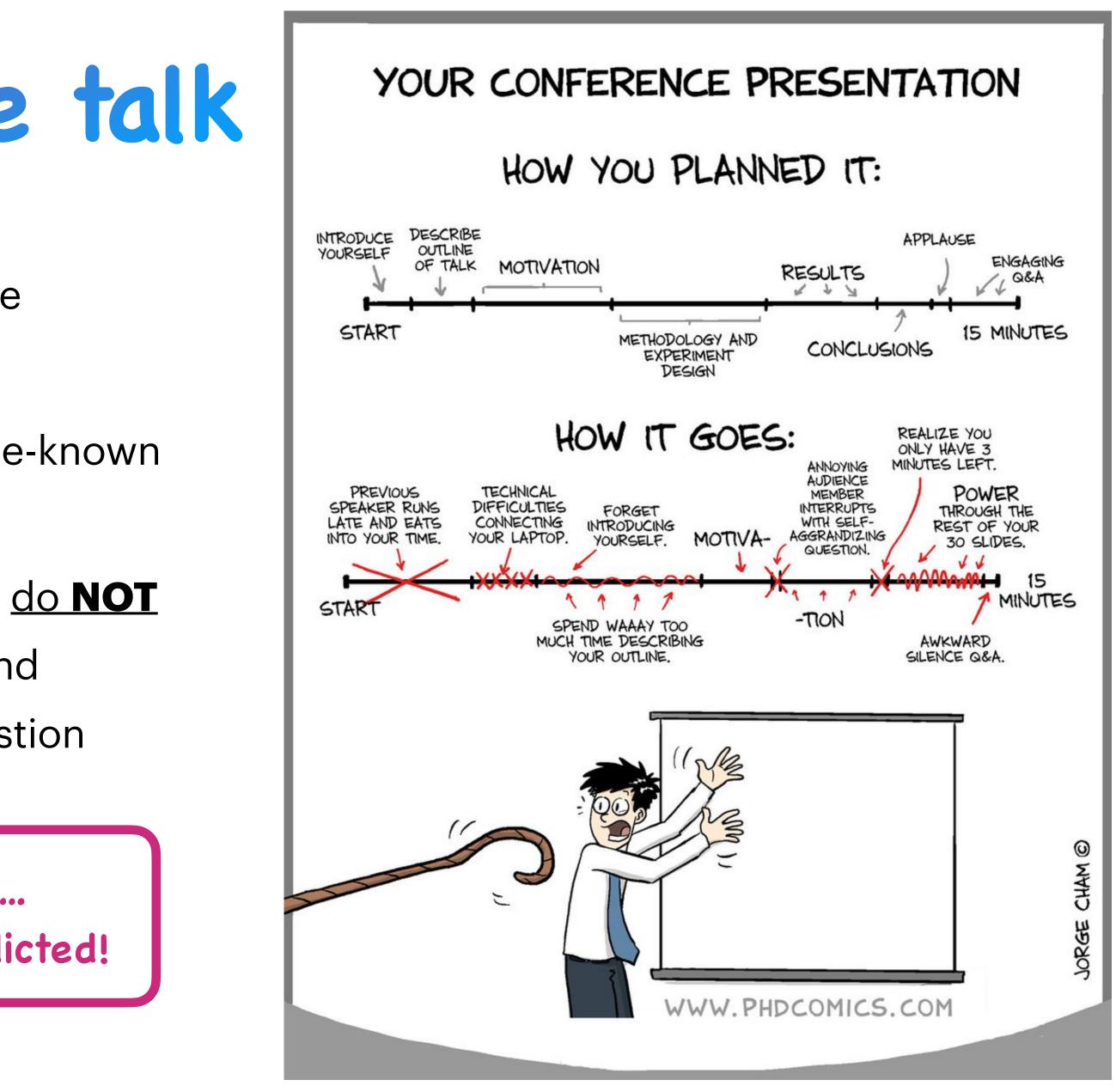
watch the movements of your body: no crossed arms on your chest or hands

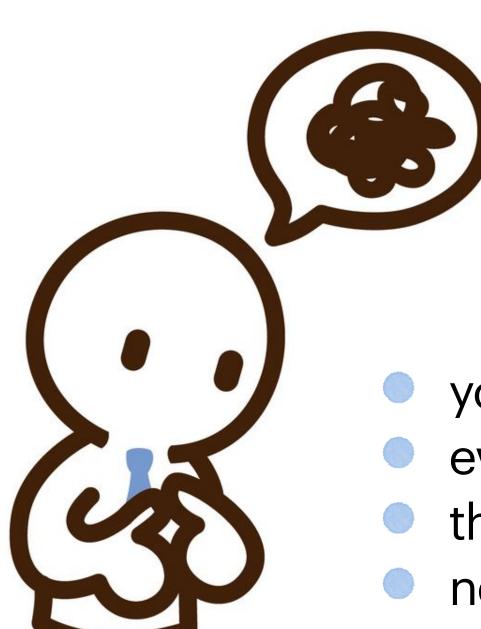


More advices on the talk

- the report should be simple, clear and concise
- minimum amount of technical information
- the language is simple with a minimum of little-known terms
- when referring to an important point that you do **NOT** understand very well, it is better to admit it and provoke a discussion than to wait for the question

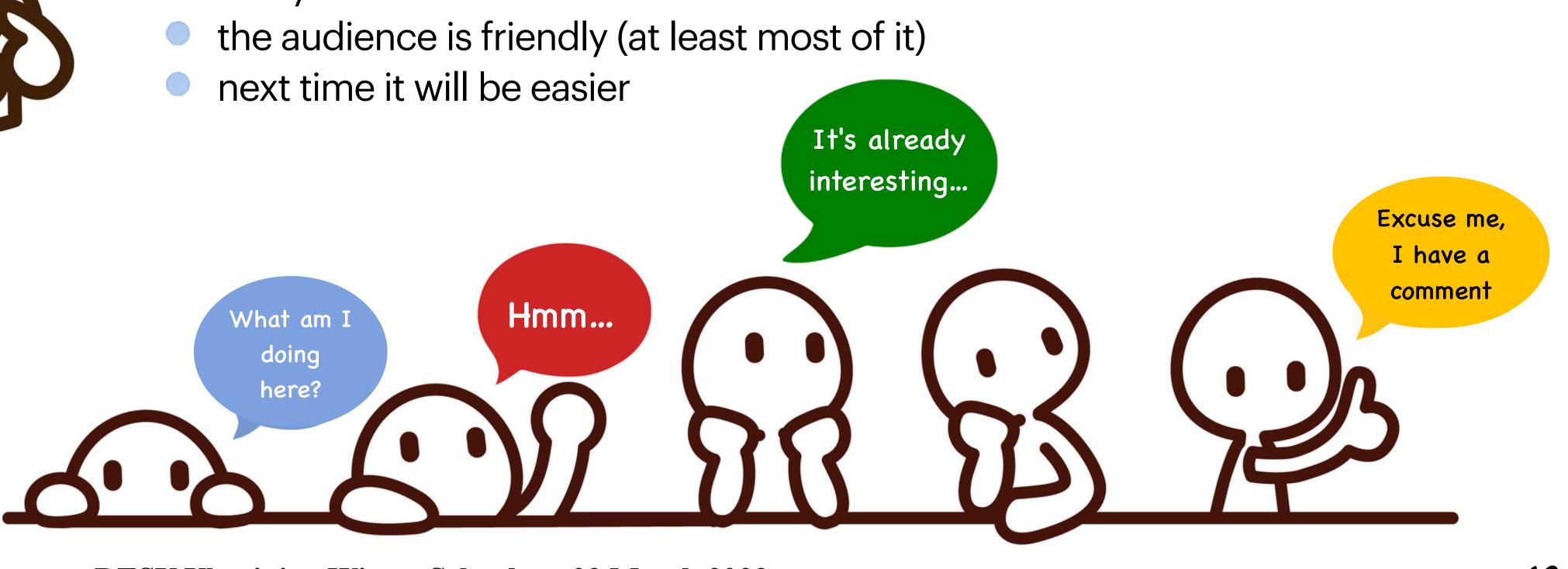
And remember, everything can go wrong... There are always things that cannot be predicted!





And what if I'm still scared?

- you are not alone
- everyone started from this



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All speakers experience fear and severe insecurity during their first speech, but...







Connect

Home > Elsevier Connect > How to give a dynamic scientific presentation

How to give a dynamic scientific presentation

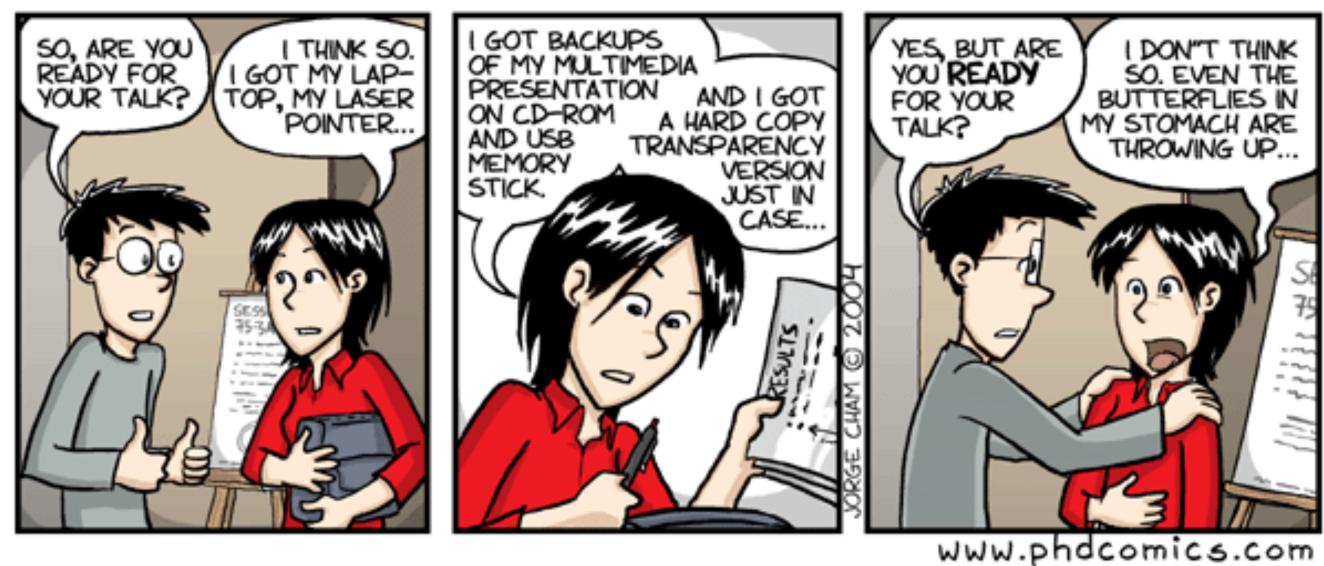
Convey your ideas and enthusiasm – and avoid the pitfalls that put audiences to sleep

By Marilynn Larkin - August 4, 2015

Giving presentations is an important part of sharing your work and achieving recognition in the larger medical and scientific communities. The ability to do so effectively can contribute to career success.

However, instead of engaging audiences and conveying enthusiasm, many presentations fall flat. Pitfalls include overly complicated content, monotone delivery and focusing on what you want to say rather than what the audience is interested in hearing.

Effective presentations appeal to a wide range of audiences — those who work in your area of interest or in related fields, as well as potential funders, the media and others who may find your work interesting or useful.



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https://www.elsevier.com/connect/how-to-give-a-dynamicscientific-presentation

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Useful videos:

The 110 techniques of communication and public speaking

youtube.com/watch?v=K0pxo-dS9Hc

How to avoid death by PowerPoint

youtube.com/watch?v=lwpi1Lm6dFo

The magical science of storytelling

youtube.com/watch?v=Nj-hdQMa3uA



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How to speak? youtube.com/watch?v=Unzc731iCUY

How to become a master in the Art of Public Speaking?

youtube.com/watch?v=dHAbmoFHqgA

Think fast, talk smart: Communication Techniques

youtube.com/watch?v=HAnw168huqA







Thank you for your attention!

Questions?

