How to make a presentation
"**Slide Show**"

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LIMOS

October 2018

Why this Lecture?


- ▶ important
- ▶ everywhere
- ▶ in any job: teacher, researcher, industrial

Why this Lecture?

Why this Lecture?

> You never get a second chance to make a first impression.
>
> — *Will Rogers* —
>
> **AZ QUOTES**

Remember

▶ Require to do a presentation in your life!

▶ No improvisation, need of preparation and training

Did you already give a talk?

Did you already give a talk?

Did you already get a lecture "How to make a presentation ?" ?

Indeed

It is easy to do BAD presentations !

Background Color

- ... Put strange background color
- basics color red green, white, black, blue or yellow.

Realize that
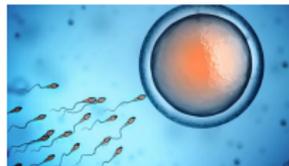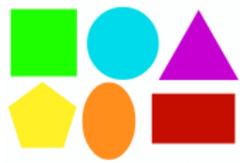
- ▶ Easy to do a bad talk
- ▶ Shape is important
- ▶ Structure and content also
- ▶ Conception is crucial

It takes time

Outline

LIMOS LABORATOIRE D'INFORMATIQUE, DE MODÉLISATION ET D'OPTIMISATION DES SYSTÈMES

Outline

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Botching of a talk in few examples ...

inspired from Dieudonne Leclercq's talk.

- ▶ Visibility
- ▶ Readability
- ▶ Understanding
- ▶ Pleasure
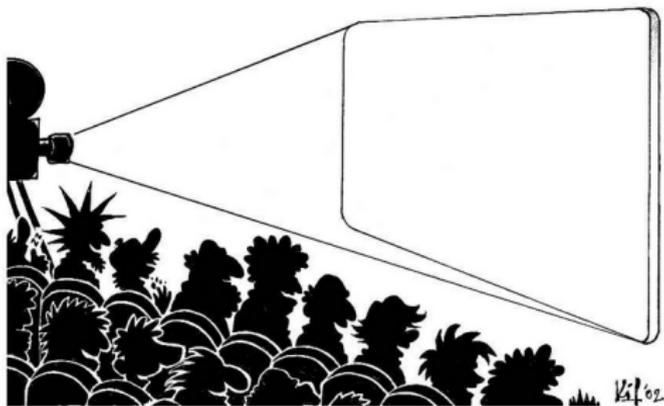
1. Area of visibility
2. Hiding a part of the screen
3. Size of the slides

First

- Paint the wall in extra color not white
- Small screen

25% of blinds

1. Area of Visibility

First

- ▶ Paint the wall in extra color not white
- ▶ Small screen

25% of blinds

Second

Use only half of the screen
50% of blinds

1. Area of Visibility

First

▶ Paint the wall in extra color not white
▶ Small screen
25% of blinds

Second

Use only half of the screen
50% of blinds

Third

Use useless decoration on your slides
75% of blinds

2. Hiding part of the screen

With
- The beamer
- Yourself

3. Size of the slides

\tiny Example tiny

\scriptsize Example scriptsize

\footnotsize Example footnotesize

\small Example small

\normalsize Example normalsize

\large Example large

\Large Example Large

\LARGE Example LARGE

\huge Example huge

\Huge Example Huge

Readability

1. Fonts
2. Background color
3. Animation

𝔘𝔰𝔦𝔫𝔤 𝔰𝔱𝔯𝔞𝔫𝔤𝔢 𝔣𝔬𝔫𝔱𝔰 𝔠𝔞𝔫 𝔟𝔢 𝔞 𝔯𝔢𝔞𝔩 𝔡𝔦𝔰𝔞𝔳𝔞𝔫𝔱𝔞𝔤𝔢, **𝔭𝔩𝔢𝔞𝔰𝔢 𝔞𝔳𝔬𝔦𝔡 𝔦𝔱...**

\rm Roman: This is an example of Roman

\bf Bold: **This is an example of Bold**

\sf Sans Serif: This is an example of Sans Serif

\it Italic: *This is an example of Italic*

\em Emphatic: *This is an example of Emphatic*

\sl Slanted: *This is an example of Slanted*

\sc Small Caps: THIS IS AN EXAMPLE OF SMALL CAPS

\tt Typewriter: `This is an example of Typewriter`

Arial is ok

Readability

- ▶ ... Put strange background color
- ▶ basics color red green, white, black, blue ou yellow
- ▶ We can generate more with
  \colorlet{mauve}{blue!70!red}

Text in black and background in white

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Your brain focus on the animation !

Understanding

1. Talk during reading ;-)
2. Screen is no a text
3. Crazy Laser
4. Finger pointer
5. Underlining everything
6. All information at once
7. Sound and movement
8. Vague information

1. Talking during reading

No one would have believed in the last years of the nineteenth century that this world was being watched keenly and closely by intelligences greater than man's and yet as mortal as his own; that as men busied themselves about their various concerns they were scrutinized and studied, perhaps almost as narrowly as a man with a microscope might scrutinize the transient creatures that swarm and multiply in a drop of water. With infinite complacency men went to and fro over this globe about their little affairs, serene in their assurance of their empire over matter. It is possible that the infusoria under the microscope do the same. No one gave a thought to the older worlds of space as sources of human danger, or thought of them only to dismiss the idea of life upon them as impossible or improbable. It is curious to recall some of the mental habits of those departed days. At most terrestrial men fancied there might be other men upon Mars, perhaps inferior to themselves and ready to welcome a missionary enterprise.

2. Screen is not a Text

No one would have believed in the last years of the nineteenth century that this world was being watched keenly and closely by intelligences greater than man's and yet as mortal as his own; that as men busied themselves about their various concerns they were scrutinized and studied, perhaps almost as narrowly as a man with a microscope might scrutinize the transient creatures that swarm and multiply in a drop of water. With infinite complacency men went to and fro over this globe about their little affairs, serene in their assurance of their empire over matter. It is possible that the infusoria under the microscope do the same. No one gave a thought to the older worlds of space as sources of human danger, or thought of them only to dismiss the idea of life upon them as impossible or improbable. It is curious to recall some of the mental habits of those departed days. At most terrestrial men fancied there might be other men upon Mars, perhaps inferior to themselves and ready to welcome a missionary enterprise.

reflaser. Crazy Laser

No one would have believed in the last years of the nineteenth century that this world was being watched keenly and closely by intelligences greater than man's and yet as mortal as his own; that as men busied themselves about their various concerns they were scrutinized and studied, perhaps almost as narrowly as a man with a microscope might scrutinize the transient creatures that swarm and multiply in a drop of water. With infinite complacency men went to and fro over this globe about their little affairs, serene in their assurance of their empire over matter. It is possible that the infusoria under the microscope do the same. No one gave a thought to the older worlds of space as sources of human danger, or thought of them only to dismiss the idea of life upon them as impossible or improbable. It is curious to recall some of the mental habits of those departed days. At most terrestrial men fancied there might be other men upon Mars, perhaps inferior to themselves and ready to welcome a missionary enterprise.

4. Point with your finger

No one would have believed in the last years of the nineteenth century that this world was being watched keenly and closely by intelligences greater than man's and yet as mortal as his own; that as men busied themselves about their various concerns they were scrutinized and studied, perhaps almost as narrowly as a man with a microscope might scrutinize the transient creatures that swarm and multiply in a drop of water. With infinite complacency men went to and fro over this globe about their little affairs, serene in their assurance of their empire over matter. It is possible that the infusoria under the microscope do the same. No one gave a thought to the older worlds of space as sources of human danger, or thought of them only to dismiss the idea of life upon them as impossible or improbable. It is curious to recall some of the mental habits of those departed days. At most terrestrial men fancied there might be other men upon Mars, perhaps inferior to themselves and ready to welcome a missionary enterprise.

5. Bold

No one would have believed in the last years of the nineteenth century that this world was being watched keenly and **closely** by intelligences greater than man's and yet as mortal as his own; that as men busied themselves **about their various concerns** they were scrutinized and studied, perhaps almost as narrowly as a man with a **microscope** might scrutinize the transient creatures that swarm and multiply in a drop of water. With **infinite complacency** men went to and fro over this globe about their little affairs, serene in their **assurance of their empire** over matter. It is **possible** that the infusoria under the microscope do the same. No one gave a thought to the older worlds of space as sources of human danger, or **thought of them only** to dismiss the idea of life upon them as impossible or improbable. It is curious to recall some of the mental habits of those **departed days**. At most terrestrial men fancied there might be other men upon Mars, perhaps inferior to themselves and ready to **welcome** a missionary enterprise.

7. Sounds and moves

Without no link with the talk, disturb the attention

8. Useless or vague info

You can see the third James bond on the picture

Pleasure

1. Discovery
2. Speak to the screen
3. Force to take note
4. Time over passing
5. No way to contact you

1. Discovery

Find a famous name

$$CL * O * A * * A$$

Too much or not enough kill the pleasure of discovery.

😊 1. Discovery

Find a famous name

$$CL * O * A * * A$$

Too much or not enough kill the pleasure of discovery.

CLEOPATRA

2. Screen speaking
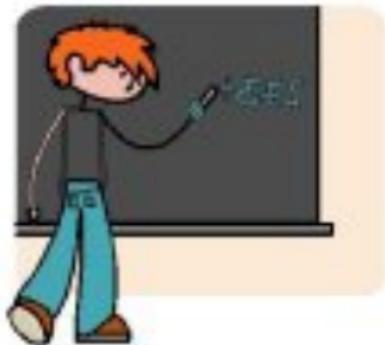
3. Force to take note

Give paper version of your slides AND leave place for notes ;-)

5. Do not give any way of contact you

Easy to do bad slides !

What is a good slides !

One advise

More advises

- ▶ Telegraphic style
- ▶ Use metaphors, images
- ▶ Time : > 2 minutes per slides
- ▶ Uniform presentation: background, color, font, size
- ▶ Arial, no Time.

One Good Slide in 5 points

- ▶ **SIMPLE**
- ▶ **MINIMAL**
- ▶ **COHERENT**
- ▶ **ATTRACTIVE**
- ▶ **INDISPENSABLE**

Outline

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Who are you?

You are your first audience

Do not forget

- ▶ Introduce yourself
- ▶ Do a talk you like
- ▶ Explain honestly your feelings ...

A talk for who?

Identify your audience:

▶ Language (**English**/French)

▶ Junior / Senior

▶ Prior knowledge?

▶ Who should understand your talk?

▶ Level of details

Recalls or not?

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No

- ▶ Losing your time
- ▶ Everybody knows it
- ▶ Boring the public..

Recalls or not?

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- ▶ Losing your time
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- ▶ Boring the public..

Yes

- ▶ Defining a clear common vocabulary
- ▶ Frustrating someone who does not know
- ▶ Slowly starting your talk
- ▶ Introducing basics
- ▶ Catching audience's attention

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SO DO IT !

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Always identify a goal

According to

- ▶ Audience (number, age, background etc ...)
- ▶ Time
- ▶ Kind of presentation
- ▶ Your interests
- ▶ Your abilities
- ▶ Your material

Always identify a goal

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YOU SHOULD 👍 YOUR GOAL ...
in order to do a good talk.

Scientific Dissemination

Your talk is the image of your

- ▶ self
- ▶ lab
- ▶ results
- ▶ abilities to solve open problems
- ▶ capability to talk, present, explain

Lecture

Teach something to somebody:

- ▶ Verify what they already know
- ▶ Explicit what they should learn
- ▶ Identify step by step where you are
- ▶ Recall main key ideas

Audition for a Job

You aim is to convince the committee:

- ▶ Present yourself in any case
- ▶ Ask which kind of presentation they want to see
- ▶ Check the time you have
- ▶ Be honest, clear and yourself

A Story

Find a way to bring your audience to your goal

- ▶ Define a problematic to catch the attention
- ▶ Identify the problem and after a solution
- ▶ Try not to lose the audience, keep the contact
- ▶ Recall often where you are in the story
- ▶ Repetitions are welcome

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A Story

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The audience do not know where you are going …

Introduction

1. First Slide
   - Title of the talk, authors, affiliation
   - Presentation of you, your co-author, your institution, lab
   - Be polite, thanks the organizer
2. Motivation
3. State of the art
4. Problematic
5. Outline

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INTRO = + +

Conclusion

Summary:

- ▶ recall problematic
- ▶ your solution
- ▶ technique used
- ▶ main result, concept, idea to bring home

Next:

- ▶ unsolved questions
- ▶ open problems
- ▶ possible extensions
- ▶ questions

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Link between parts

- Keep the audience with you (image, humor, break ...)
- Show clearly your story progression
- Try to introduce your next slide, parts, chapter

Before and during the talk

- ▶ Offer the possibility to the audience to ask questions
- ▶ Ask questions to the audience
- ▶ Answer to the questions

After the Talk

- ▶ Offer the possibility to the audience to ask questions
- ▶ Answer to the questions:
    - ▶ Reformulate the question for the audience
    - ▶ Be sure to answer the right question
    - ▶ Clearly and simple
    - ▶ Honestly

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"Talk is not reading"

You + Audience + Goal = INTERACTIONS

- ▶ DO NOT read your slides
- ▶ DO use your slide
- ▶ DO NOT be passive
- ▶ DO see and answer questions
- ▶ DO NOT speak too fast
- ▶ DO speak loud enough

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Check

Organize your talk in advance

- ▶ Microphone
- ▶ Laser
- ▶ Compatibility PC
- ▶ Screen size
- ▶ Remote
- ▶ Watch
- ▶ Paperboard
- ▶ Room disposition

What are they wearing?
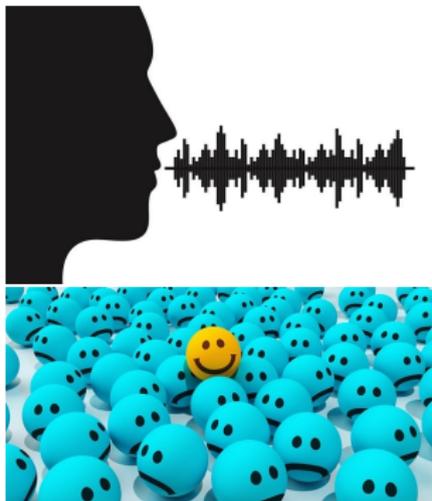
Too fast, too slow how to know?

- ▶ Preparation
- ▶ Estimation
- ▶ Ask audience
- ▶ Let them think
- ▶ Do some break

Outline

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Recall

ONE GOOD SLIDE IS:

- ▶ SIMPLE
- ▶ MINIMAL
- ▶ COHERENT
- ▶ ATTRACTIVE
- ▶ INDISPENSABLE

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Things to Bring Home

- Slide show is not ...
- Be on time
- Training and preparation
- STORY and GOAL according to your AUDIENCE
- It takes time

Things to Bring Home

- Slide show is not ...
- Be on time
- Training and preparation
- STORY and GOAL according to your AUDIENCE
- It takes time

You'll never have a second chance to make a first impression

Thanks for your attention

Questions ?

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Chinese Proverb

"I heard, I forget

I see, I remember

I do, I understand"

Confucius

Présentation Mathieu Valois 2017

Mathieu Valois

- Doctorant en sécurité informatique au GREYC à Caen, au sein de l'équipe Monétique et Biométrie
- Thèse sur le thème de la robustesse des mots de passe
- Points d'intérêt : Mots de passe, buffer overflow, attaques wifi (Scapy, wireshark, aircrack-ng), sécurité Androïd, chiffrement homomorphe (stage de master)
- Compétences techniques : Linux, Python, Bash, C/C++, Java, Hashcat, John the Ripper, méthodologie d'attaque sur les mots de passe
- Compétences théoriques : Algorithmique du texte (modèles de Markov, algorithmes de compression), Cryptographie appliquée (fonctions de hachage + memory-hard), Cryptographie pour l'embarqué (courbes elliptiques), Chiffrement homomorphe (Helib)

1

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Mathieu Valois