Communicating science & tech in a clearer way

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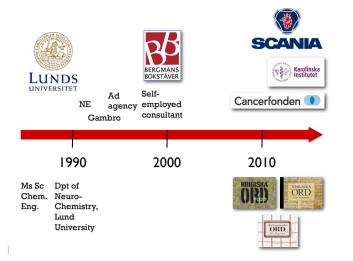


Sigismund Zygmunt III Waza 1566-1632

Kung av Sverige 1592–99

Król Polski i wielki książę litewski 1587–1632











Basic principles of communication

5 why rhetoric is still relevant in AD 2017

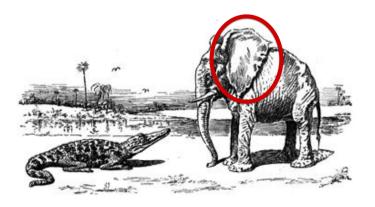






- Transfer information?
- Create understanding?
- Convince opponent?
- Sell an idea or a product?
- Influence decisions?
- CHANGE THE WORLD!!





What ...

- ... do they know?
- ... do they want?
- ... do they need?
- ... motivates them?



HOMEOSTASIS SECURITY HIERARCHY REPRODUCTION

What ...

- ... do they think they know?
- ... do they want to be?
- ... makes them feel insecure?
- ... boosts their ego?



"To thine own self be true"

Hamlet Act 1, scene 3



STRENGTHS	WEAKNESSES
OPPORTUNITIES	THREATS

Passion









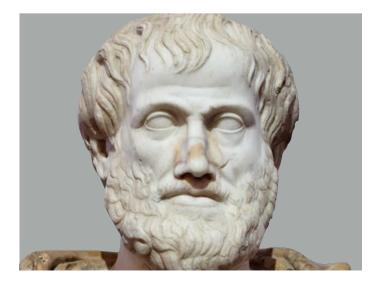


RHETORIC

- Exordium
- Narratio
- Propositio
- Probatio
- Refutation
- Peroratio

- Introduction
- Background
- ► Thesis
- ▶ Proof
- ▶ Refutation
- ▶ Conclusion

- Title
- (Abstract)
- Introduction
- Materials & Methods
- Results
- Conclusions
- References
- Acknowledgements













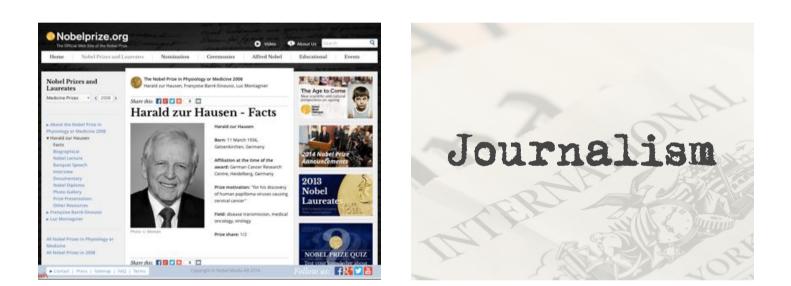




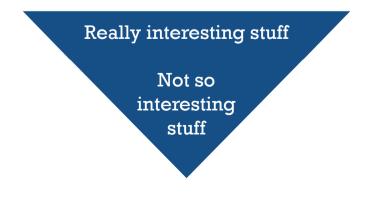








The inverted pyramid



- What? Who?
- ▶When? ▶Why?
- Where? How?



- 1. Define your task.
- 2. Analyze your target group.
- 3. Know yourself
- **4.** Understand the limitations at hand.
- **5.** Seek inspiration in all types of communication.



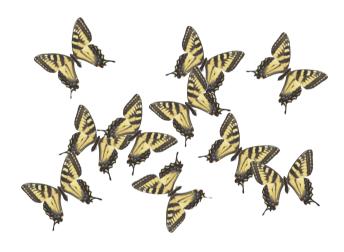


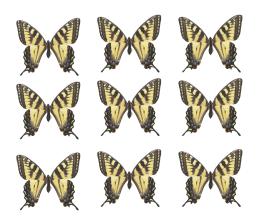
Love your stuff – and show it!













- •Define your main messages.
- •Follow a preparation protocol.
- •Practice.

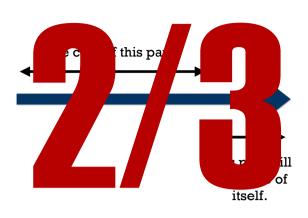
Task	 Analyze the task. Define your goal. Pick your messages.
Content	4.Decide a strategy.5. Compile your material.6. Structure & simplify.
Delivery	8. Plan the delivery. 9. Try out and practice

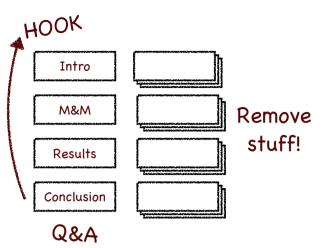


- Work in sequence (1 item/slide).
- Remove the slide junk.
- Make the text, charts & images BIG.
- Reduce the number of bullet lists (< 25%).

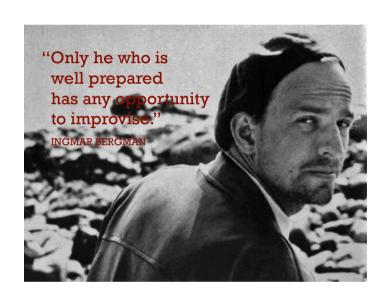


- Humanitarian importance?
- Innovation potential?
- Economic impact?
- Association to well-known subject/person/context?
- Contradiction/Mystery?
- Demonstration?





Less text.
No "nice to know" data.
Simpler graphs.







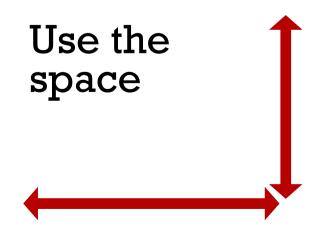




Project your enthusiasm towards the listeners.

Use your eyes.

Change the pace & take breaks. Be silent. (Use the "B" key)



- 1. Start preparations by defining main messages.
- 2. Use Post-It notes to build a structure.
- 3. Invent a hook.
- **4.** Prepare for 2/3 of the time.
- 5. Show your enthusiasm.

PowerPoint & Posters

"PowerPoint corrupts" "Death by PowerPoint" "PowerPoint is evil" "PowerPoint makes you stupid"

Do the planning before the slides.

One item/slide.

Max 25% bullet point slides



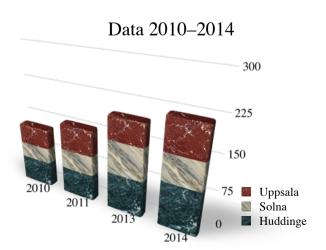
- •Keep it simple.
- •Think in sequence
- •Focus on the visual.



Obstacles are made to be removed.

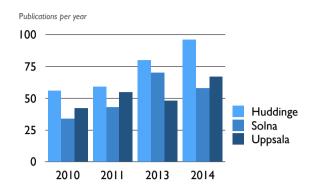






data/ink ratio

Huddinge produces most publications four years in a row



Create an ELEVATOR PITCH



- 1. What do you do?
- 2. What problem do you solve?
- 3. How are you different?
- 4. Why should I care?

Research posters

PURPOSE
 ENVIRONMENT

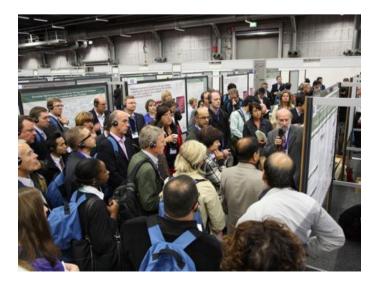
Why attend a scientific meeting?

- Educate yourself.
- Set your benchmarks.
- Get new ideas.
- Get feedback on preliminary results.
- Market your research and your group.
- Network.

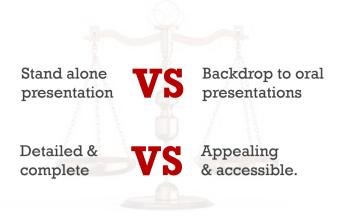
"The primary purpose of presenting a poster is to complement yourself as you network with other scientists."

Matt Carter: Designing Science Presentations



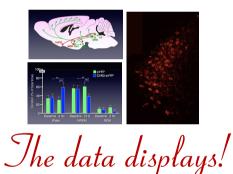




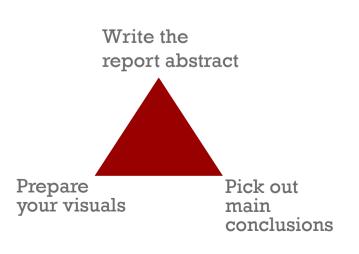


INTELL CTUAL PREPA ATION PF SE

The stars of the show



An illustrated ABSTRACT





Decide a logical order.

Write brief text for the different components.

Start designing! (PPt or InDesign)

Think BJIG

Add more text ... but keep it concise!

Let the content breathe!

Don't be too creative!





Work on the title.

Remove stuff.

Increase the data/ink ratio in the visuals.

Prepare your verbal explanations.

Weaknesses of scientific communication









Learn some RHETORIC

ETHOS PATHOS LOGOS

TRUST PASSION KNOW-HOW



A NEW WAVE of communicators of science









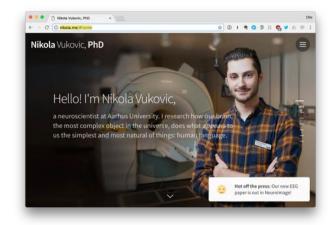
@ATJCagan

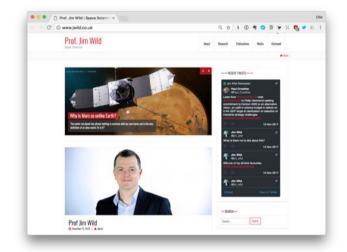


Scientists Officials Students Politicians PhD students Healthcare Corporations NGOs Entrepreneurs Influencers



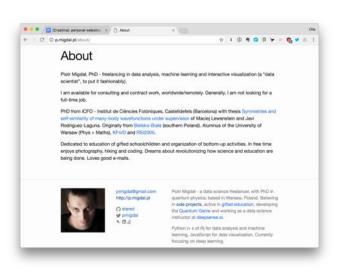
Setting up a PERSONAL SCIENTIFIC WEBSITE

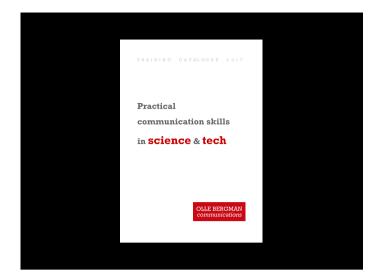












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