

THE PERFECT POSTER LAYOUT – RAMAZZINI SEMINAR 2014





BERN. RAMAZZINI

In Patav. Archi-Lycao Prof. Publ.

MORBIS ARTIFICUM

DIATRIBA.

ACCEDUNT

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DE VETERI MEDICINA

PARAPHRASIS;

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DISSERTATIO LOGICA.
EDITIO SECUNDA.



ULTRAJECTI,

Apud GUILIELMUM van de WATER, Academiæ Typographum. 1703.



HEALTH AND EDUCATIONAL INFORMATICS, HEALTH, AARHUS UNIVERSITY



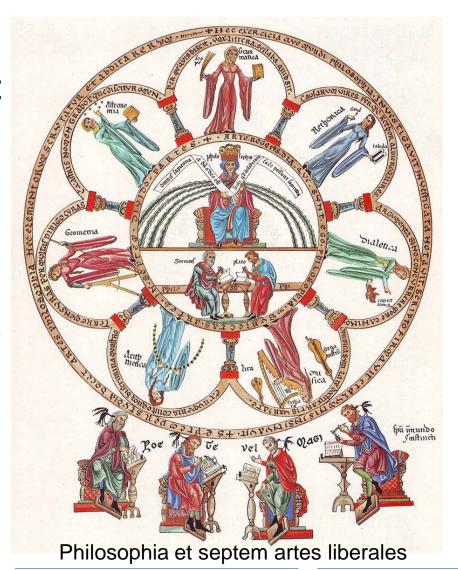
MD@MEDU.AU.DK

MAKING A POSTER



THE SEVEN LIBERAL ARTS:

GRAMMAR, LOGIC, RHETORIC, ARITHMETIC, GEOMETRY, MUSIC AND ASTRONOMY





CORE MESSAGE

- >Why
- >How?
- > Know your audience
- > Storytelling
- > Arrive early Test and Arrange Leave Last



A POSTER

>Why?





HOW: OASIS OF BOUNDARIES



WORRYING

does not take away tomorrow's **TROUBLES**, it takes away today's **PEACE**.

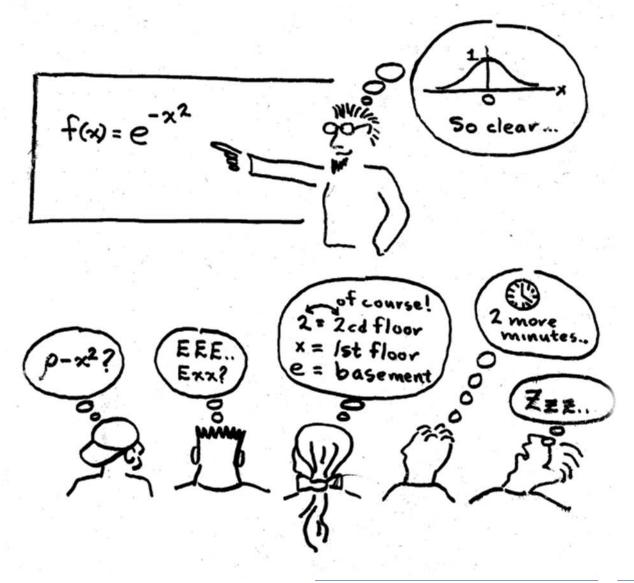




STORYTELLING

- > Find out who you are talking to
- > Prepare a 2 min. presentation
- > Get them to ask min. one question!
- > If people are interested its good
- > If people are not interested its normal
- > If a person is very interested be careful





NC STATE UNIVERSITY

WOOD PELLETS, A PROFITABLE SOLID BIOFUEL FOR U.S. MANUFACTURERS

Adrian Pirragila, Ronalds Gonzalez, and Daniel Saloni; North Carolina State University, Department of Wood and Paper Science

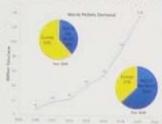
Why Wood pellets?: The Market!



fellers, compressed wood particles used as burning fuel, with sizes from 35 S inch diameter and 1-1-5 nch length, with bulk density around 40 lbs/ft*(2-3 times the wood density of softwoods).

According to the control of the cont

- Heard Perfects one of the most source?ufu Reservant (redset forms)
- " District production: It belot from ; "H JUST to 18 Med Incom to 2020.
- mich pefett market is bestind in demand and thremal utilization as completed to market implies (Conside & Europe)



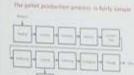
Transformation: from classic small manufacturers to world-class facilities

- t Win prests produce would believe to the U.S. & ES W. Delever to marrifacturery from 2006-2010
- * Othersal , reached to being from annual producers using resolution on the fractions of the factories on the control of the factories or the control of the factories or the factories of the factories or the factories of the fa



is wood pellets an economically sustainable market for U.S. Manufacturers?

by understand the maintains and professions of professing points, a technologopous model west developed and outsided, which assimilate profession court, and performs forested and armitically scalars for profession or the LCL strongle legisles.



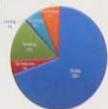
these was are a with the economical consider blood that the made

The time and is become a suspine.



Profitability determined by modeling production variables

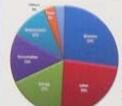
Case Study: pellet plant producing 75,000 ton/year (common use for the U.S.)



- Mass balance cylintations indicate anadoction rates of 8.33 ton/hour to meet 75.000 metric tons/year
- Energy Balance calculations indicate requirements of 4.937.15 kWn (41.43) 066.74 kW/year)



Cabulations metalle additional 24% of CAPCK for indicess south, 10% for coveragency, and 3 5% of fold building cost for short being always.



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20001184.444		1990 mm	0.99
The territorial rises.		Added Salam	114
Transferred			
7.000			

- 23 influence un total petints costs
- . Mind important cost driver biamasa (27%)
- "Others" is represented by marketing feet, incentions, and maintenance costs, being the smallest and fraction.

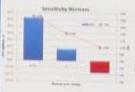
Pellets are profitable for the internal market

- Total production cooks. \$203.776m for case study, assuming on inflatine, MACKS-7 respectation, and CAPEX specialing schedule of 20%, 40%, and 40% from 2009-2013.
- Add or functions hack calculates selling prices of policy for expectabl internal rates of ration (ont, discount rate at 12%)
- Figure. Changes in NEV and your of peters when the model is adjusted to the Sec. 100, 12%, and 10% till using the alless function.
- To obtain a positive NPV, the price of pellets at factors gate most be higher than \$221/tons

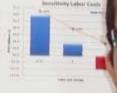


- * Assuming a pose of \$223/100 (14% that, and production some of \$303.3/for, produces obtain a resolver margin of \$25.3/ford
- "Surrogentation come added for the police for 24th IMR (\$220/bed) block \$244.3/bm at relative gate (Seet) mit of \$15/bm, and cartains over of \$8132/mis, gloing a total of \$33.3/bm).
- Companing this price vs. 5376/tim average retail price, retailers can chitain a resense of \$127 mg.

How sensitive is the business to critical variables?



- 1 High seminfully increasing binning come
 dentity offices the diff, with a lift of \$1.60
 MM 10% diff; burnelines or binnings tools
 highly recreases the NPO and \$81,15%;
 - Sensitivity offset brighton elements.
 -
- * Abelian Sensity Labor IIII cause a seculius fore IS & Add [12% 168] in \$1.0 Mds [12% 168] in \$1.0 Mds [12% 168] in \$1.0 Mds [12% 168] in ISS decreased because I
- Sentitivity offset adequately differences, plan, and monitor personnel hands;



- Semilitring CAPEX
 - Montan soundary the MA is soundary to decrease in CAPEX (14% or 18%), while CAPEX increases reduce the MA by 2% of (14% or 12%).
 - Sensitivity Offices, higher capacities, technicing of unit operations obeying, growing, mich
- Claw sensitivity: Durgy costs
- Semidelty Office energy and generation drying not required inspersents with of total energy incommittee outside the legislation of the legisl



beneatedly breegy cost

Conclusions

- Critical production variables: Blomass type (sindelivered), plant & equipment prices, energy mate.
- Pollets are profitable in the U.S. market for propriets higher than \$241,37cm.
- Sensitivity analyses indicate that biomass and is divers for wood polate.
- Energy is a low sensitivity cost factor, but cook factor if drying is not considered.
- CAPEX is a low sensitivity sont factor. A CAPEX sensitivity (higher capacities, restriction of unit or



HOW TO MAKE A GREAT POSTER

Keep it simple

20-40-40

Tell a clear story

Use high quality illustrations and pictures

Check alignment and spelling

Print a test print

Design viewers take-home message

Make a handout

MADS R DAHL



SCIENCE POSTER

- > You may be creative
- > You may be original
- > You may be unusual
- >But you must be a scientist!



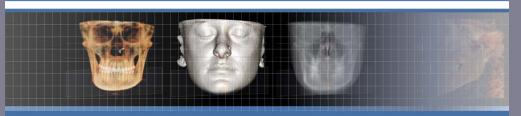
RULE OF THUMB

- >20 % Text
- >40 % Graphics
- >40 % background

Faculty development Digital Anatomy Teaching Tools

Mads R. Dahl, Mathias Rokkjær & Eivind O. Simonsen

Center for Medical Education, Aarhus University, Denmark



3. Prescription

A High end technology, developed and used at similar universities. A system with a didactic potential and The Anatomage and the Invivo5 software was chosen as product.

Why: Faculty Development

How:

Digital Dissection

4. Tests

The system was tested in four settings: Students, Instructors, Teachers and Experts. All were given a 20 min instruction and thereafter a 45 min test and trial. Furthermore the system were demonstrated more than 20 times to different people with interrest.

2. Remedies

Interviews and dialog with the Institute and key teachers/instructurs to facilitate and qualify specifications on the technology.

Who: Bachelor, experts and instructors



5. Reception

The system was appreciated by 90 % of the useres. 10 % of useres could not see the learning potential or would be reluctant to invest time in converting analog or PowerPoint material into the new format.

PROCESS

1. Observation

Anatomy teaching missed a digital and virtual dimension. Thus the medical students and the faculty administration demanded a more modern approach and usage of technology.

6. Implementation and future Iteration

The system was implemented over 6 months together with the relevant personel and primary user group. After a period with presentations and demonstrations the technology was anticipated by students. Student instructures and teachershas has begun developing materials and experts are considering the usage potential. After introducing the 3D virtual dissection table the institute has requested a trial on other digital learning tools.

RESULTS



CONCLUSION

The Anatomage Table provides high quality 3D visualizations of real patient anatomy. The system is complementing cadaveric dissection and radiology integration into the classroom and self study.

The operating table form factor facilitates both independent and group studies, instructors and students can virtually dissect skeletal tissues, muscles, and organs. The system gives a better understanding of the interrelation and three dimensional placement of structures.

One major faultis the sensitiveness to sunlight and time consuming

development of manuals, guides and instructions.



Section for Health and Educational Informal MD @MEDU.AU

FIGUREDWOR

| Elspeth Hill | Renée Stalmeijer | Suzanne Vaughan | Tim Doman | Yvette Solomon |

Maastricht University, NL & The University of Manchester, UK

Percentage of women in surgical careers in the UK

IDEN

THEIR

W

NARRAT





female surgeons

FIGURED WORLDS: FEMALE SURGEONS SELF-NARRATE THEIR IDENTITIES?

Theoretical lens to examine



A socio-cultural theory by Holland et al.

They are hard, yeah, Out you have to look at it so exfastorically. I'm sum female surgeom find to have been because if you weren't a certain way you probably wouldn't have survived it a very male dominant specialty, trainee

It's a similar kind of mindset. the skills you need as a mum. ... there's quite a lot of crossover to being a surgeon - being able to organise, being able to delegate, making decisions, getting up in the middle of the night, having a lot of energy...you know, there is a bit of overlap there. between the two pomeultant

of nem little area ments. Thy peer group who will never respect a female surgeon unions she's full lime, itemp all the ort sale, not going off to see the Eids in the Christman play, you know, unknow she's a fully findged bloke, senior consultant

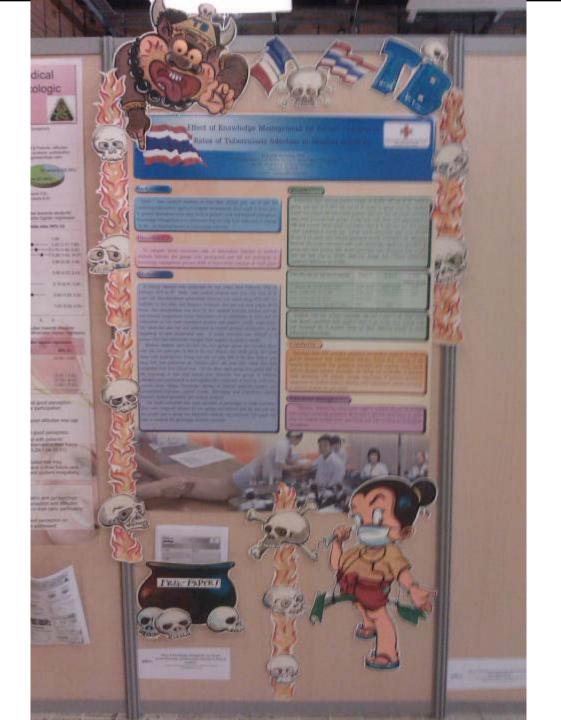
I want to be a good, you know, tlaughter, a good wife, a good sister, a good surgeon...! don't just see myself as a doctor, I see myself as a surgeon... I wouldn't say it's the be all and and all but it's pretty much getting there... "Laughter". It's almost everything. Localdn't see myself doing anything else. And if nomebody total me I couldn't operate I'd be truly gutted.



video







Students Do It Their Way

Understanding How Students View Video Lectures to Form Effective Learning Strategies

M A Baker, M Mian, A Khidir, T Arayssi, & A A Sultan WEILL CORNELL MEDICAL COLLEGE IN QATAR

RESEARCH OBJECTIVE

Increase understanding of use of unlimited access to video-recordings of all course lectures and attendance by medical students at Weill Cornell Medical College in Qatar.

SUMMARY OF WORK

Provided 1st-year medical students computer access to video-recorded class in a basic science course.

Conducted focus groups and a survey to learn more about their opinions and recommendations about the usefulness of video-recordings.





RESULTS

40 of 43 (93%) students used the video lecture recordings.

Number of logons ranged from 0 to 123.

Figure 1 shows number of logons by week for each lecture.

Figure 2 shows students report of number of lectures attended during class sessions.



TAKE-HOME MESSAGE

Students vary in their use of lecture video recordings, while also frequently attending in-class lectures.

We need to understand the importance of technology and differences in student learning styles as we transform delivery of 21st century medical education.

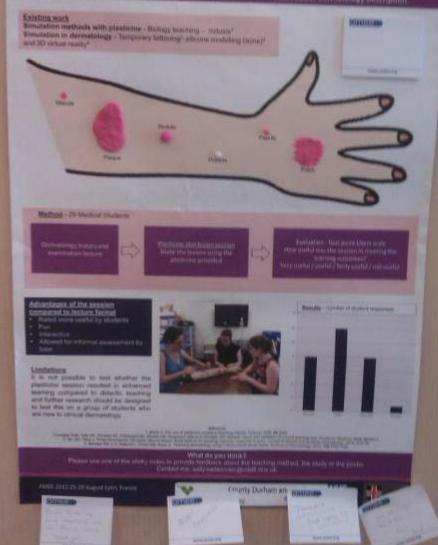
information: Mary Anne Baker, PND, mah2014@quater-med.cornell.adu. Well Cornell Mathod College in Gater, Education City, P. O. Box 24144, Dobe, Gater

Using plasticine to simulate skin lesions.

Evaluation of a novel teaching technique for medical students.

Dr Sally Sadasivam - County Durham and Darlington NHS Foundation Trust, UK

A fun interactive method of teaching medical students about son lesion terminology was rated useful by the erc of medical students and could be used by others to halp leach students about derivatelegy description.





Synaptogenesis requires postsynaptic PSD-95/Dlg

Franklin A. Carrero-Martinez 5 4 , Marie-Pierre Furrer', Emiko Suzuki 4 and Akira Chiba*

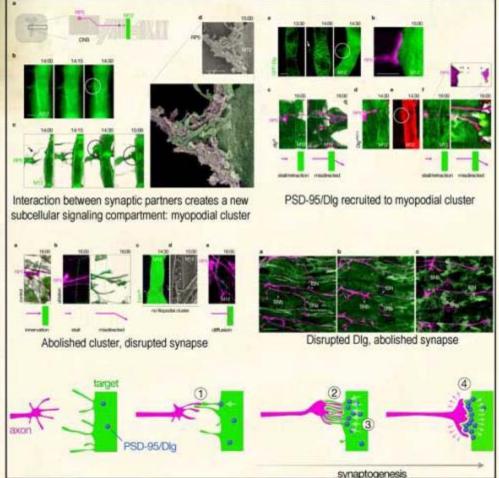
⁵ Biology Department, University of Puerto Rico, Mayagüez, Puerto Rico;
^c National Institute of Genetics, Mishima, Shizuoka, Japan

*Department of Cell and Developmental Biology, University of Illinois, Urbana, USA



Synaptrapriese is a reproducible process that ensues hen an axonal growth cone contacts its target. Results: The response of RPS axon to various experimental manipulations, assessed at 16.00; wildtype control. muscle12 (target) abidion, postsynaptic over-expression of EarlinCN (note: Nopodat clustering is absent in 100% of the cases), digTS at 26 °C (note: PSD-65/Dig is eliminated from whole embryol, without at 20 °C (a regative control) posityreptic over-expression of DigsPCI21-2 (vote: PSD-95/Dig function is disrupted specifically in muscle12) FIF5 axon displays one of the four potients of response (1) innervate muscle12 (sepit) normally in g., Fig. 2st. (2) extend at normally thin processes diffusely wer the surface of musclet 2 (e.g., Fig. 2e), (3) either stat at the "egrocel" in g., Fig. 2o left, Fig. 3c left) or retract. through local degradation of its terminal that is still in context with muscle12 (e.g., Fig. 3f Avf), (4) extend abnormally by either bypassing muscle 12 towards more lately located non-target muscles (e.g., Fig. 2b right, Fig. 3c right, Fig. 3f right) or being medirecting antenorly (not shown). Note that, with target ablation, "innervation" and diffusion" are not applicable. Conclusion: Thinse results support essential role of postsynaptic PSD-IdI/Dig and its referce on myopodial duster at the creat of sunaptogenesis in vivo. Thus, precise matching between synaptic partners requires not only their molecular compatibility but also orchestrated changes in their subcellular morphology. With PSC-05/Dig as the entry port, the postsurautic assembly pathway can be characterized as collaborative cellular and molecular dynamics. It is now possible to compare the mechanisms.

> of relial sunaptogenesis to those controlling the maintenance and planticity of a synapse

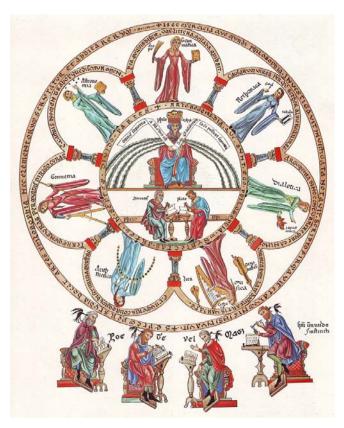


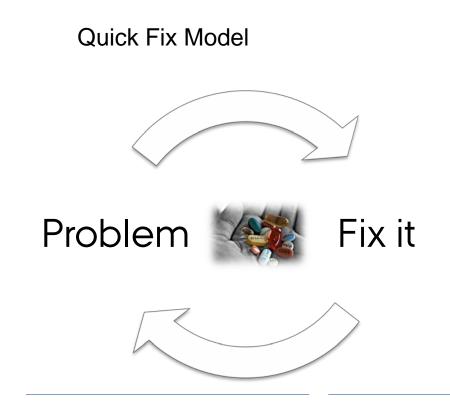






THE SEVEN LIBERAL ARTS: GRAMMAR, LOGIC, RHETORIC, ARITHMETIC, GEOMETRY, MUSIC AND ASTRONOMY

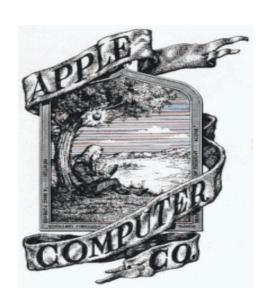




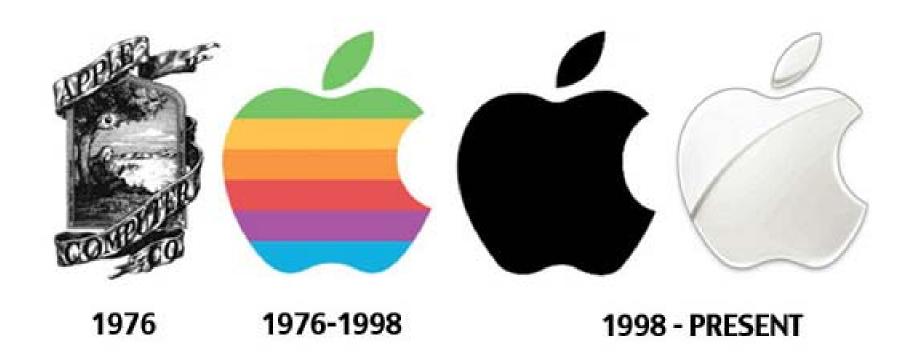


> NOT / VYLE FONT

- > Simple font (Arial, Verdana, Tahoma ..)
- > Good contrast to background
- > Rather readable than small
- > Aligned text, Figure and structure
- >Nodoublespacing
- > No italic
- > Use bulleted points







DANISH ramazzini C E N T R Eresearch in occupational and environmental medicine



LINKS

- > www.Color.adobe.com/
- > www.istockphoto.com/
- > www.iconico.com/colorpic/



HOW TO MAKE A GREAT POSTER

- > Keep it simple
- > 20-40-40
- >Tell a clear story
- > Use high quality illustrations and pictures
- > Check alignment and spelling
- > Print a test print
- > Design viewers take-home message
- > Make a handout

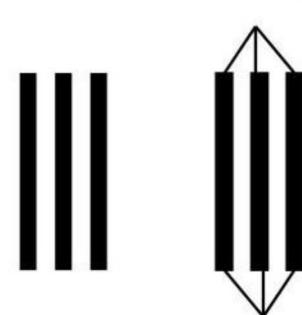
SOLO TAXONOMY (after Biggs and Collis 1982)

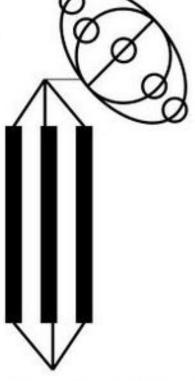
Define Identify Do simple procedure Define
Describe
List
Do algorithm
Combine

Compare/contrast Explain causes Sequence Classify Analyse Part/whole Relate Analogy

Apply
Formulate questions

Evaluate
Theorise
Generalise
Predict
Create
Imagine
Hypothesise
Reflect



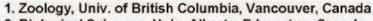


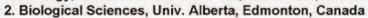
Prestructural Unistructural Multistructural Relational Extended abstract



The Jamie Smith Poster Award: Ecology and Evolution Retreat 2006

Judith Myers¹ and Isla Myers-Smith²









Introduction

Research question:

How to make the most effective poster?

Objective

To improve communication through poster presentations.

Methods

To make a good poster...

- Plan carefully
- Few words
- Clear graphs
- Pretty pictures

Results

Poster viewers like...

- 1. Simplicity and flow
- 2. Large block font and headings
- 3. Text easy to read (from 2m)
- 4. Clear message

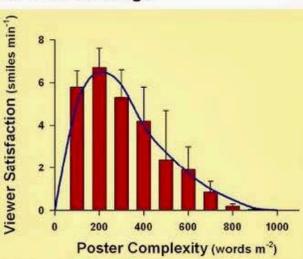


Figure 1. Hypothetical relationship between poster complexity and viewer satisfaction. Random sample of 50 posters and 500 viewers at the CSEE conference 2005 (error bars denote SD).

Discussion

- Posters are rapid communication
- Not short papers

Conclusion

The best poster is simple yet makes your work stand out!



Illustration by Jamie Smith

References

Karban, R and Huntzinger, M. 2006. How to Do Ecology. Princeton University Press

Acknowledgements



Fig. 2. Sample poster of criteria for the Jamie Smith Poster Award, prepared for the UBC, SFU, and UVic Ecology and Evolution Retreat, 2006.