Modern Computer Vision Methods WS 2022/23 [IN2107]



Hands-on Presentation Techniques

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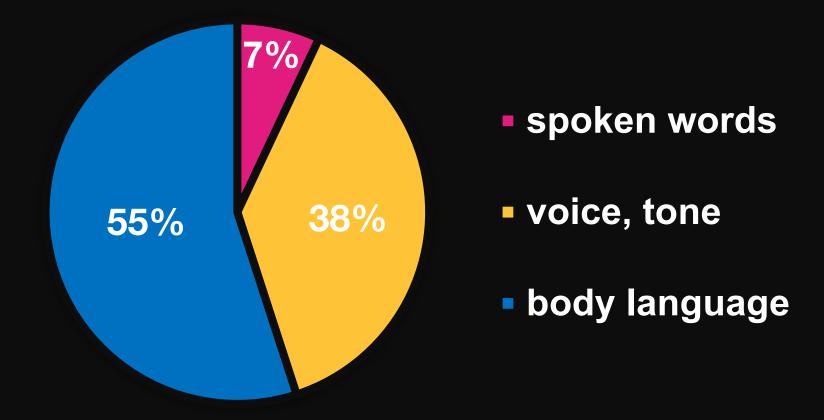








Elements of Communication



Mehrabian, Wiener: "Decoding of Inconsistent Communications". Journal of Personality and Social Psychology. 1967.

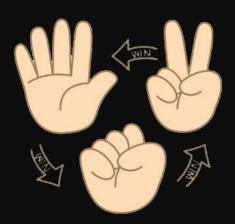
1. Body Language



Body Language Variations

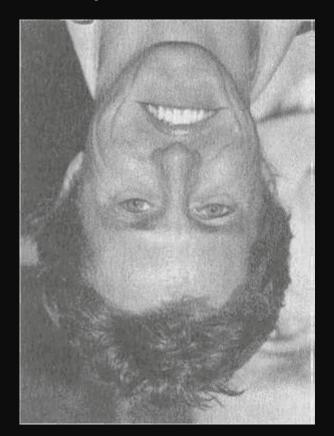
- Show Confidence
- > Feel Comfortable
- Eye Contact
- Show Engagement
- Use Physical Space
- Vary Gestures
- Draw Attention
- ➤ Sell Your Story

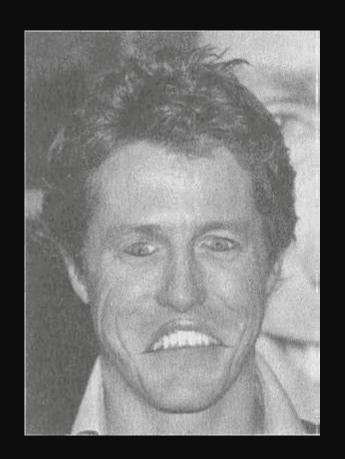






Facial Expressions





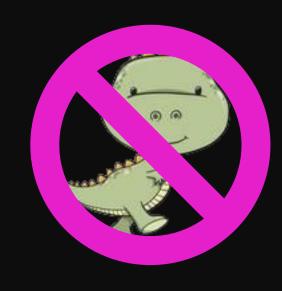
Pease, Pease: "The Definitive Book of Body Language". Pease International, Buderim 2004.

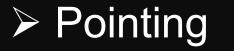
Hand Gestures

Compliance



➤ Palms down 52 %





28 %

2. Verbal Elements & Voice

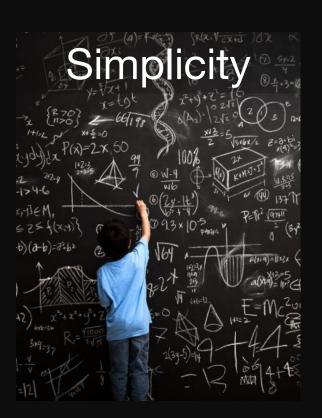


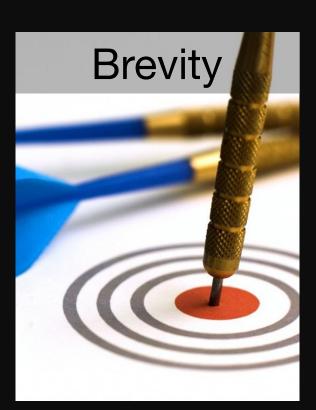


Voice Tonality

I didn't tell her you were stupid.

Verbal Complexity







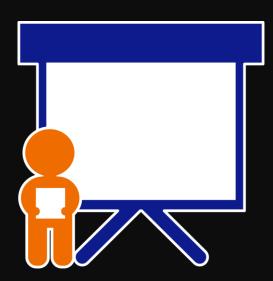
"Verbal Elements for a Powerful Speech". Stanford Graduate School of Business. 2017.

Simplicity



Friends. Season 10. Episode 05.

3. Visual Support





If companies would have as little respect for business as they have for presentations the majority would go bankrupt. 33

Dr. John Medina (Neurologist)

US Wireless Market - Q2 2010 Update

Executive Summary

The US wireless data market grew 6% Q/Q and 22% Y/Y to exceed \$13.2B in mobile data service revenues in Q2 2010 - on track so far to meet our initial estimate of \$54B for the year.

Having narrowly edged NTT DoCoMo last quarter for the first time, Verizon Wireless continued to maintain its number one ranking for the 1H 2010 in terms of the operator with the most mobile data revenues (though the difference was thinner than the amoeba membrane). The total wireless connections for Verizon were almost 100M with 92.1M being the traditional subscriber base. Rest of the 3 top US operators also maintained leading positions amongst the top 10 global mobile data operators.

Sprint had the first positive netadd quarter in 3 years and has been slowly and steadily turning the ship around. T-Mobile did better on the postpaid netadds but overall additions declined again. The larger question for the market is if 4 large players can stay competitive. Generally, the answer is no. But these are different times and there are a number of permutations and combinations that are possible.

The US subscription penetration crossed 95% at the end of Q2 2010. If we take out the demographics of 5 yrs and younger, the mobile penetration is now past 100%. While the traditional net-adds have been slowing, the "connected device" segment is picking up so much that both AT&T and Verizon added more connected devices than postpaid subs in Q2 2010. Given the slow postpaid growth, operators are fiercely competing in prepaid, enterprise, connected devices, and M2M segments.

Data traffic continued to increase across all networks. By 1H 2010, the average US consumer was consuming approximately 230 MB/mo up 50% in 6 months. US has become ground zero for mobile broadband consumption and data traffic management evolution. While it lags Japan and Korea in 3G penetration by a distance, due to higher penetration of smartphones and datacards, the consumption is much higher than its Asian counterparts. Given that it is also becoming the largest deployment base for HSPA+ and LTE, most of the cutting edge research in areas of data management and experimentation with policy, regulations, strategy, and business models is taking place in the networks of the US operators and keenly watched by players across the global ecosystem.

As we had forecasted, the tiered pricing structure for mobile broadband touched the US shores with AT&T becoming the pricing operator to change its pricing plan based on consumer consumption. We will see the pricing evolve over the quarters as the US mobile ecosystem adjusts to the new realities and strategies for mobile data consumption.

Make it Clear - Structure

OUTLINE FIRST!!

- Controls number of slides & provides balance
 - Budget 2-3 minutes/slide (e.g. 30' talk = 10-15 slides)
- Have one story to tell:
 - decide on underlying issue to be addressed
 - divide into logical, heirarchical subquestions
 - talk should be series of answers to these questions
- Zoom-In (intro) and Zoom-Out (closure)

Corporate Design

Slide Title



FIGURES



Presenter Name. (Short) Title

Source Author(s). Title. Journal/Conference Year.

Slide Number

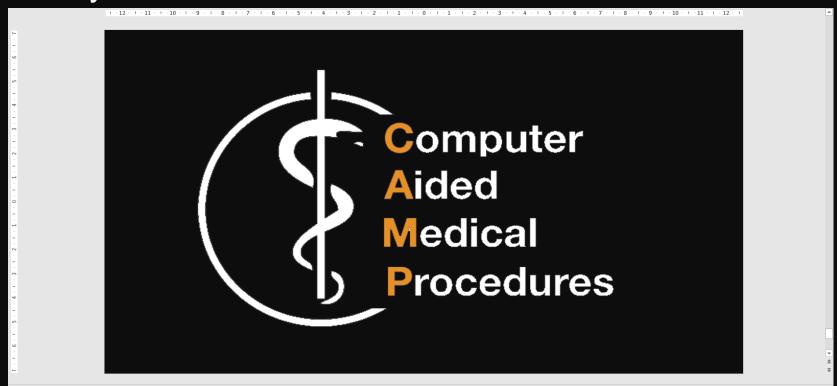
The research objective of CAMP is to study and model medical process. advanced computer integrated solutions improve their quality, efficiency, and safety. We aim at improvements in medical technology diagnosis and therapeutic procedures.

Biomedical Engineering is growing extremely fast, and needs a new generation of engineers who own the necessary multi-disciplinary know-how. The chair aims at bringing new elements into the curriculum of computer science students.

Memory

The research objective of CAMP is to study and medical procedures and introduce model advanced computer integrated solutions to improve their quality, efficiency, and safety. We aim at improvements in medical technology for diagnosis and therapeutic procedures.

Memory



The research objective of CAMP is to study and model medical procedures and introduce advanced computer integrated solutions to improve their quality, efficiency, and safety. We aim at improvements in medical technology for diagnosis and therapeutic procedures.

Size

Computer
Aided
Medical
Procedures

Size

Computer

Aided

Medical

Procedures

Project

Management

Software

Development

Size

Computer
Aided
Medical
Procedures

Font

Times New Roman

Computer
Aided
Medical
Procedures

Computer Aided Medical Procedures

Font Helvetica

Computer
Aided
Medical
Procedures

Contrast

Computer Project
Aided Management
Medical Software
Procedures Development

Contrast

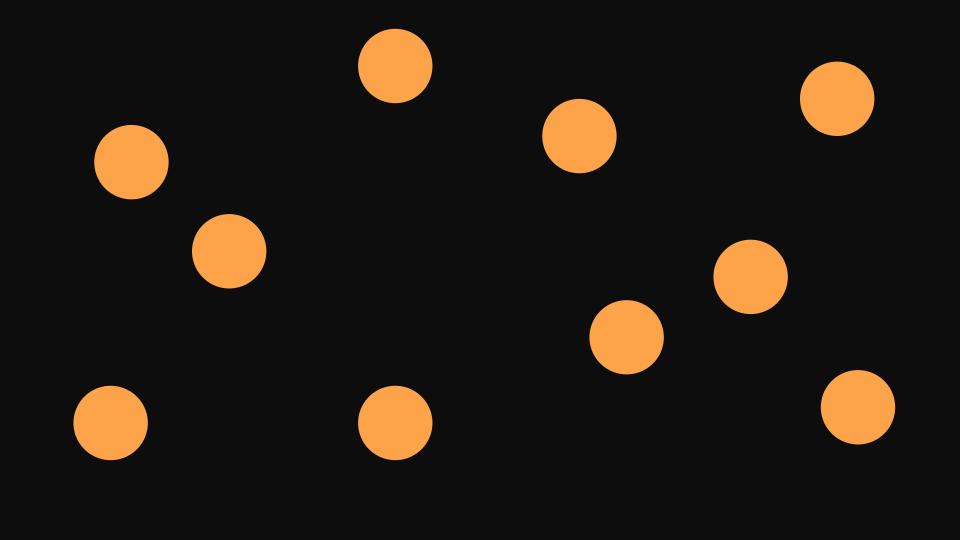
Computer
Aided
Medical
Procedures

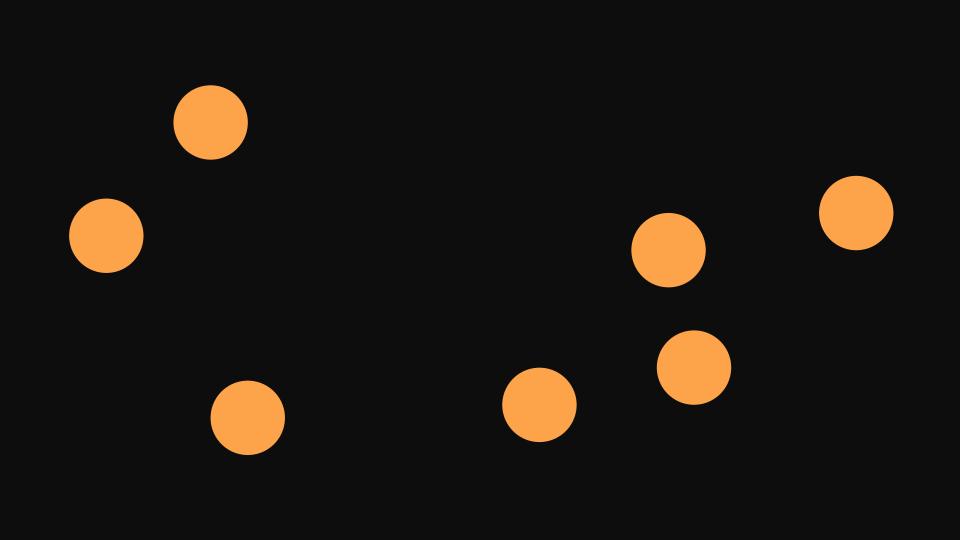
Contrast¹

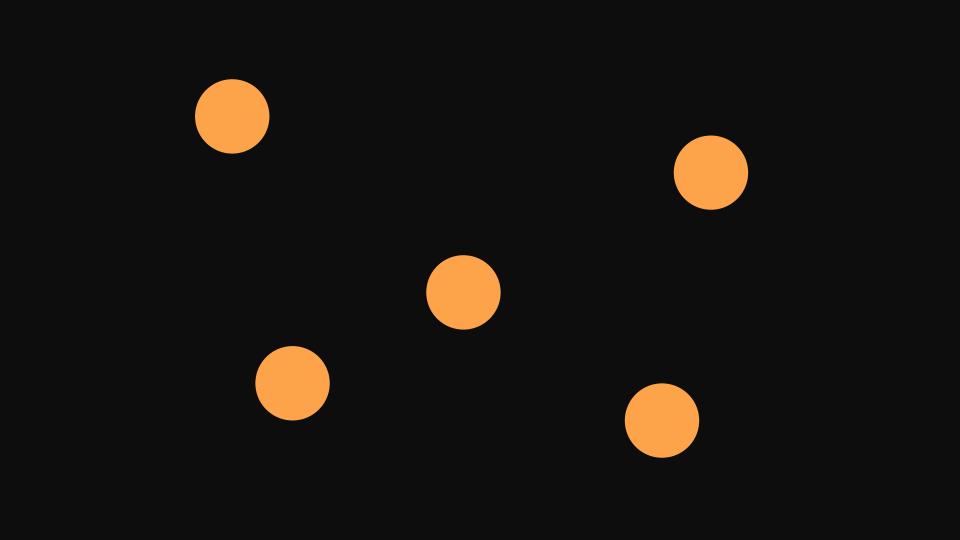
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31.10.2022 Presentation Training
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Bright Background

Objects







SIX

Objects

Computer Modern Aided Computer Vision Medical Procedures Methods Augmented Seminar Reality TUM

Objects

Computer
Aided
Medical
Procedures

Repetition



CONTRAST
DARK
SIMPLE
REPEAT

4. Content 4 Story



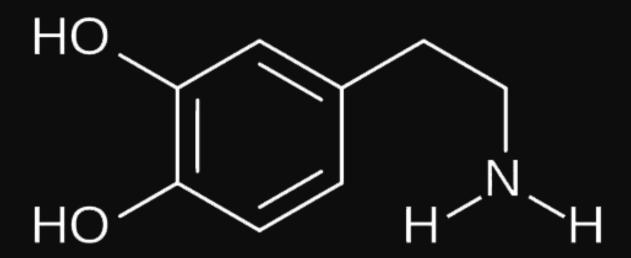


Storytelling

Your job as a storyteller is to help people connect the dots.

Kendall F. Haven (Author)

C8HIINOZ



Peter truly loved her.

Last month, she finally visited a doctor.

When he got home today, Peter started crying.

Content Composition

Primancy-Recency effect

Set Topic Motivate Relate









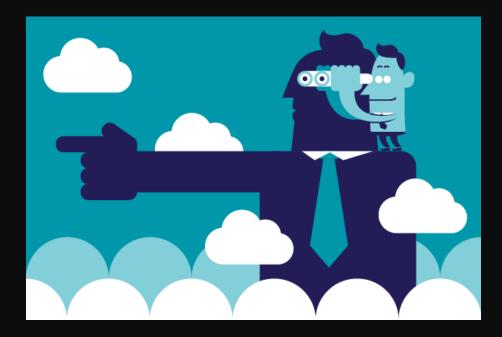
5. Practical Advice





Hard Facts

Arrive early
Deep breaths
Drink water



Learn from others Rehearse!

Further Literature

Nick Morgan. Give Your Speech, Change The World Harvard Business School Press. 2003

David Phillips. The magical science of storytelling TEDxStockholm. 2017

Scientific Style and Format: The CSE Manual for Authors, Editors, and Publishers Council of Science Editors. 7th Edition (p. 460). Reston, Rockefeller University Press. 2006

Marilynn Larkin. How to give a dynamic scientific presentation Elsevier Connect. 2015

Janice Kersh. 7 Emotional Triggers to Hook Your Subscribers Convince & Convert. 2017

Stephen Kosslyn et al. PowerPoint® Presentation Flaws and Failures: A Psychological Analysis Frontiers in Psychology. 2012

Seed Paper Matching It's a Match! 125 100 75 50 25 SCW1 PW GΖ PR1 SG LB1 HJJ PR2 SCW2 ΗY MK MS LB2

Course Dates

24.10.2022	Introduction Session
31.10.2022	Presentation Training
07.11.2022	CVPR Break (Individual Preparation)
14.11.2022	Slot to meet with Supervisor
21.11.2022	Slot to meet with Supervisor
28.11.2022	Object Poses + Robotic Grasping
05.12.2022	Neural Fields: NeRF Enhancements + Semantics
12.12.2022	3D Reconstruction
19.12.2022	Sensors + Text. Co-Modalities and Manipulation
09.01.2023	Invited Talk
16.01.2023	Scene Mapping & High-Level Understanding
23.01.2023	Point Cloud Registration
30.01.2023	Deformable Shapes
06.02.2023	Invited Talk

