

Visualization 2014
Lecture 8:
Hello World! Demos
Human Perception

Mario Romero
2014/05/06

Mittelstaedt, E. (2002). [Unfolding.](#)



Prelude Videos



MIRIAHMEYER

0:12 / 12:26

TEDxWaterloo - Miriah Meyer - Information Visualization for Sci...

TEDx Talks · 41,198 videos

TEDx [Subscribe](#) 1,238,551

7,192 👍 53 💬 1

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Uploaded on Apr 7, 2011

Miriah Meyer is a computer scientist who is changing the way other scientists see the world of data. As a postdoctoral research fellow in the School of Engineering and Applied Sciences at Harvard University, Miriah is a pioneer in the emerging field of visualization, which uses graphic computer representations to help scientists envision, manage and interact with large quantities of complex data in ways that would otherwise be impossible. Working closely with research scientists, Miriah's interactive tools now pinpoint patterns and trends.

Schedule

L1	Tue	25 mar	08:00-10:00	Introduction	
L2	Thu	27 mar	15:00-17:00	Why Visualization, Visualization Pipeline	
L3	Tue	1 apr	08:00-10:00	Visit Pipeline, Scientific Visual Storytelling	P1
L4	Tue	8 apr	08:00-10:00	VMD Pipeline, Group formations	P2
L5	Tue	15 apr	08:00-10:00	Volume Rendering and P3 progress	P3-1
L6	Tue	22 apr	08:00-10:00	Presenting Project 3	P3-2
L7	Tue	29 apr	15:00-17:00	Proposals	P4.1
L8	Tue	6 may	08:00-10:00	“Hello World!” Demos and Perception	P4.2
L9	Fri	9 may	15:00-17:00	Update 1	P4.3
L10	Tue	13 may	08:00-10:00	Update 2	P4.3
L11	Thu	15 may	15:00-17:00	Final Demo	P4.4
	Thu	22 may	23:59	Webpage Report	P4.5

Outline

- Hello World Demos

Hello World Demos!

Proposal for the MagHapticExperience



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Philip Sydhoff
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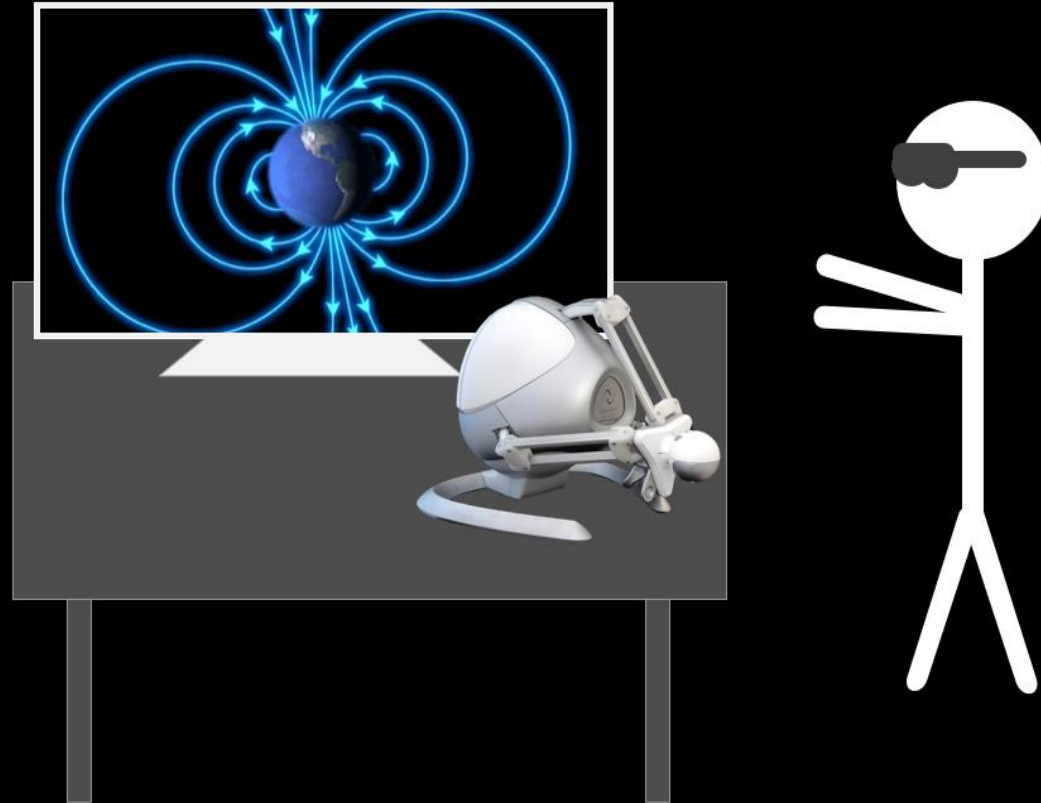
Wiebke Köpp
wiebkek@kth.se

Visualization 2014

VIS14

April 29, 2014

MagHaptic[Experience



Proposal for Dance Tracing



Anton Artemov
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Jangdal@kth.se



Rickard Jeppsson
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DANCE TRACING



Proposal: Comparing Bodies



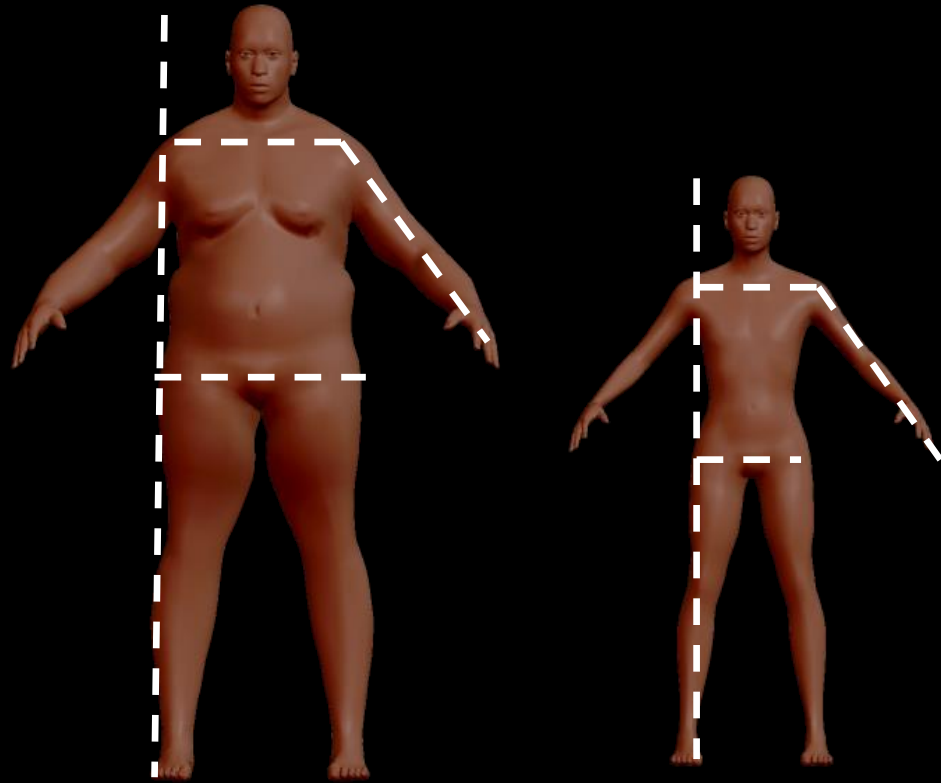
emilhar@kth.se

Visualization 2014

VIS14

2014/04/29

Comparing Bodies

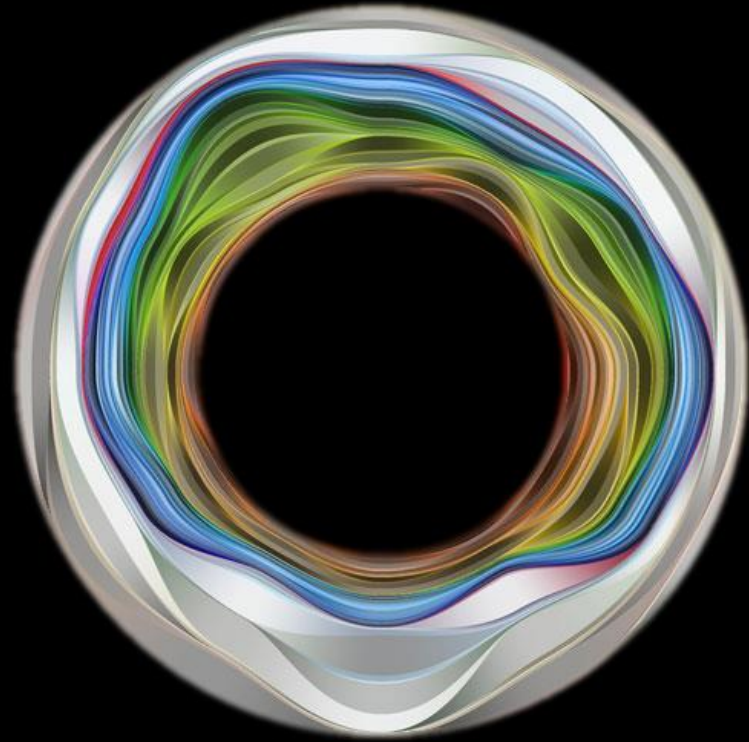


ENERGY CLOCK

MONDAY

27/12 2014







Chen Wang
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Kevin Allain
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Panchamy Krishnan
panchamy@kth.se

The background is an abstract, fluid composition of colors. It features large, organic shapes in shades of light pink, white, and pale yellow, which are framed and surrounded by vibrant, swirling bands of blue, teal, and dark grey. The overall effect is reminiscent of marbled paper or a liquid paint pour. The text 'Emo Art' is centered in the lower half of the image, with 'Emo' in red and 'Art' in blue, both in a stylized, cursive font.

Emo Art

Proposal for 3DMolecularViewer*

*WIP name

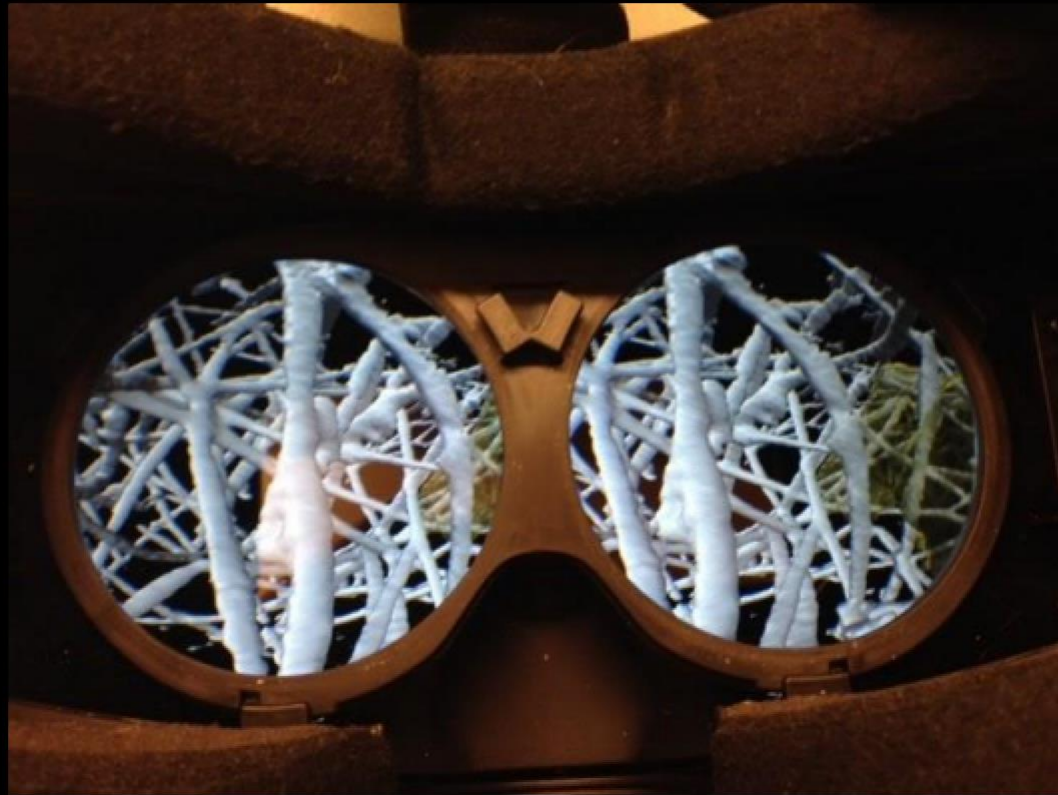
Rasmus Ansin
ransin@kth.se

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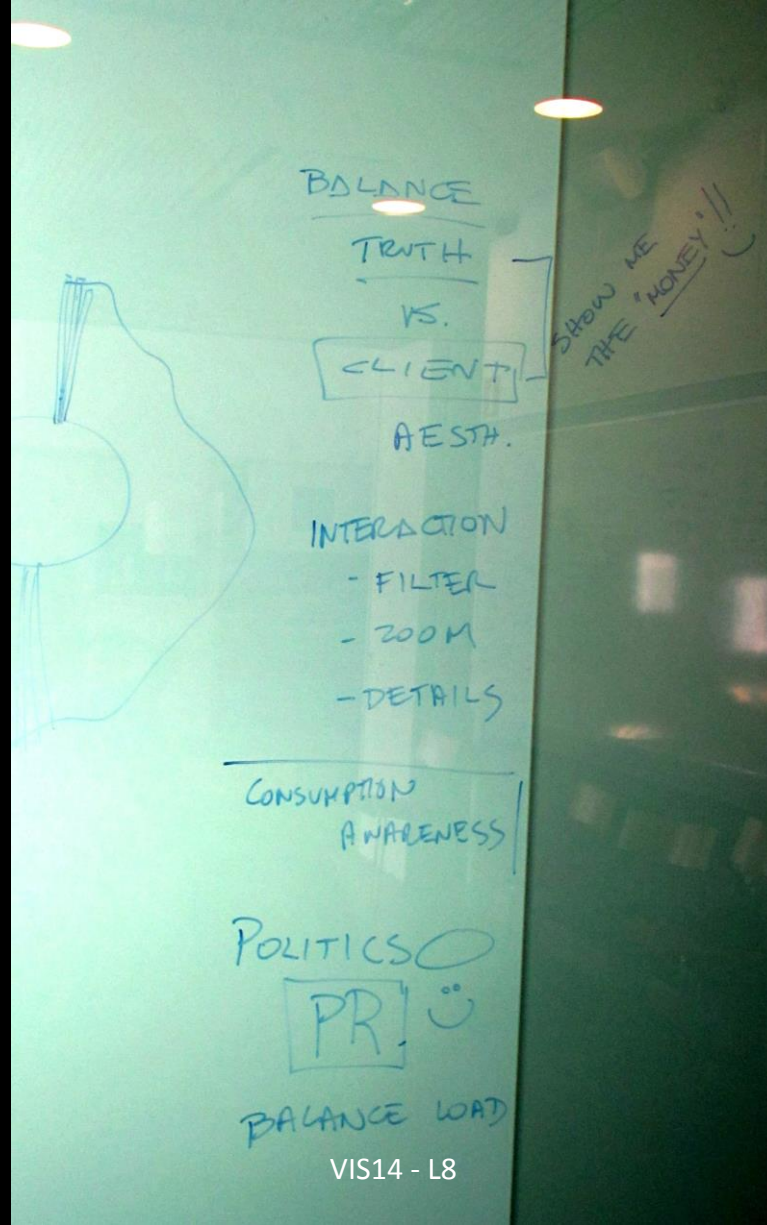
Giovanna Orisaka
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Visualization 2014
VIS14
2014-04-29

3DMolecularViewer



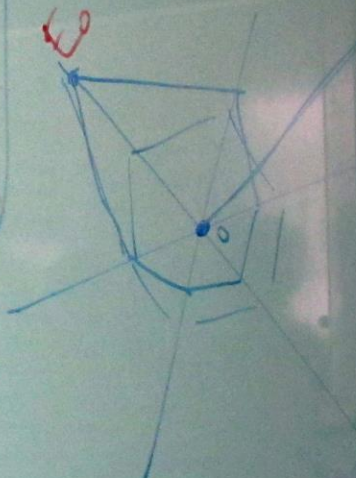
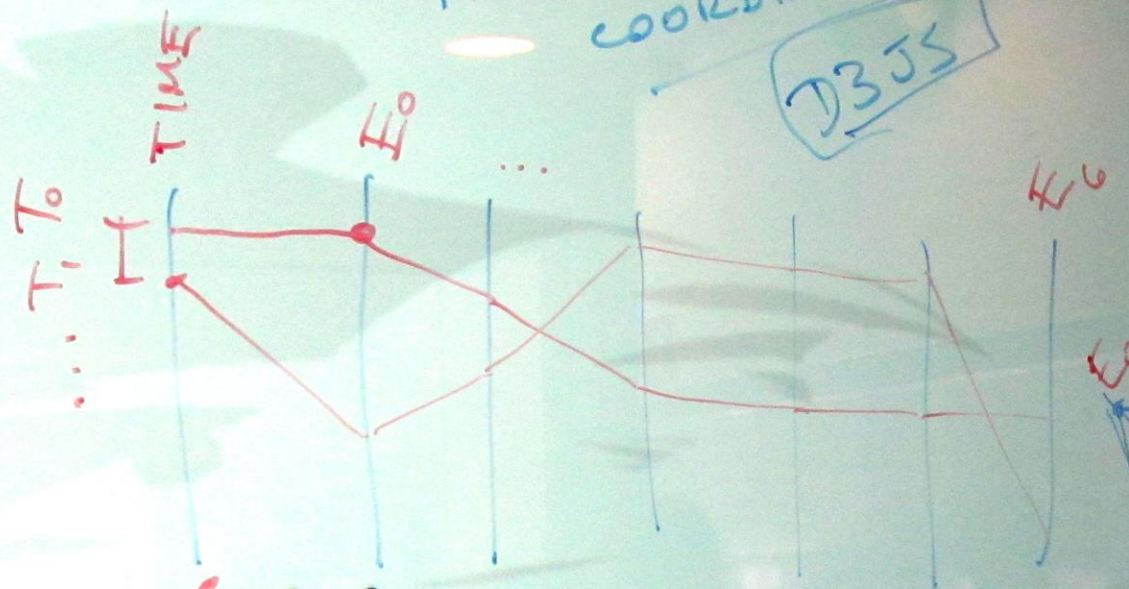
Boards



a

PARALLEL
COORDINATES

D3JS



TIME

n a 3D model

ASUS

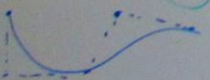
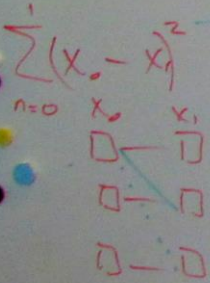
DEGREE OF FREEDOM

[REF] MAKE HUMAN
DATASET: 500 PEOPLE
COOKS FILTER
↳ BRUSHING

SSD

UN CERTAINTY ?

↳ ACCOUNTABILITY
TRANSPARENCY
OPACITY
OPAQUENESS



KINECT (SENSORS)

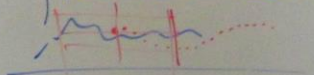
MACHINE LEARNING
TRAINING SET
OVERFITTING.

KALMAN FILTER

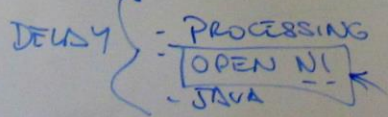
TO DO

- DANCE TRACKING
- COLOR
- NOISE !!
- MAGNETOSPHERE GAME
- SOLAR SENSE
- MILO

MOVING AVERAGE
TEMPORAL AVERAGE



N DELAY



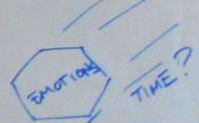
EMOART VIZ

FACE READER
MATLAB / PROCESSING



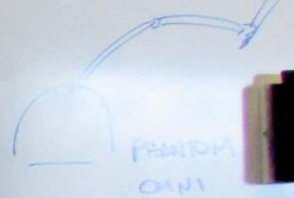
ALIASING

OPEN GL



JULIA: "WHO IS YOUR USER?"
COROLLARY: "WHAT ARE YOUR TASKS?"

HAPTIC MAGNETISM
FALCON



JONAS HOLL
EVA-LOTT SÄLLMÄS

ENERGY CLOCK 8760 HISTORY

- API: 16GB DATA
16GB
1 MILLION
0.5M x 1M

MYSQL: ◊ STACKED BAR
24HR CLOCK
BEZIER

Reading

- Visualizing Vectors
 - Helen Wright Chp 7
 - [LINK](#)
- Two related work papers (how to do related work search and review?)
- Turn in 100 word summaries for each

Thank you!

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