

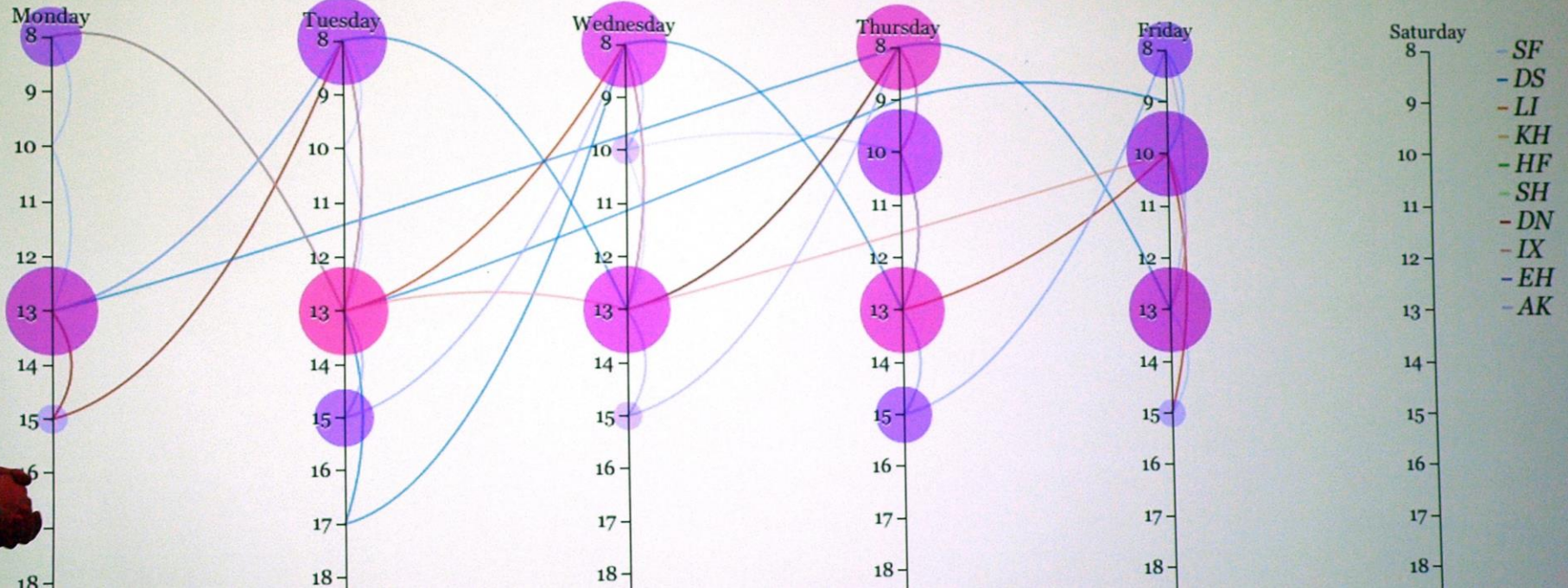
Please, follow these pages now.

 **VisualizationStudio**

 **/groups/ivis16/**

Mario Romero
2016/01/19

Information Visualization IVIS16 – Lecture 1



IVIS13 student Markus Felldin presenting his parallel coordinate visualization for scheduling.



Outline

- Introduction
 - Uniview
 - Visualization Pipeline
- What is IVIS16?
- What is the Visualization Studio?
- How do I teach?
- 15:05-15:10 Who am I?

Uniview



Answer the following questions about Uniview

1. Who is the user?
2. What are the tasks?
3. What is the data?
4. What are the data transformations?
5. What are the visual mappings?
6. What are the visual structures?
7. What are the view transformations?
8. What are the views?
9. How does the demo support the tasks?
10. How can it be improved?

The art of helping people paint ideas from data.

INFORMATION VISUALIZATION



IVIS14 final demo in VIC

What is IVIS16?

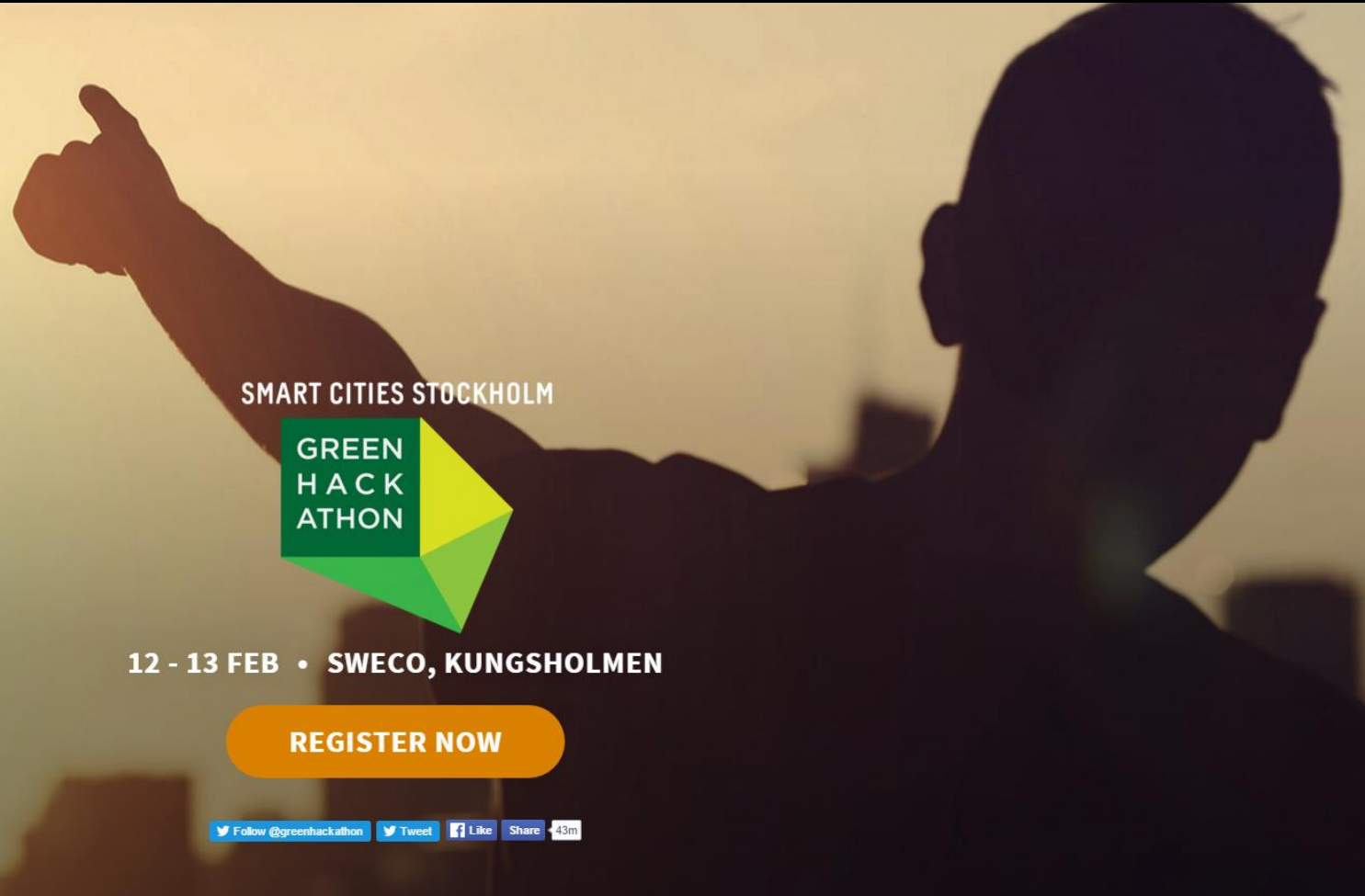
IVIS16

1. Create fully-functioning information visualization systems that facilitate actionable insight through interactive data transformations, visual mappings, and view transformations.
2. Defend your design choices.
3. Constructively criticize other information visualization systems.
4. Explain and demonstrate your information visualization systems to wide audiences, from novices to experts.
5. Elicit constructive criticism from users of your information visualization systems.

Your Grades

- Project 1 individual due: Jan 29 8:00 15%
- Project 2 individual Feb 12 8:00 15%
- Project 3 individual / group Feb 26 8:00 15%
- Project 4 group Mar 18 8:00 –
April 1 (C-Awards) 45%
- Readings individual weekly 10%

Green Hackathon – group project 3 → 4



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Project 1 due Jan 29 8:00

- Fill self-intro survey by 23:55 20.1
- Data – IVIS16 self-introduction survey
- Goal – create the best groups of 6 or 7
 - Document the visualization pipeline of your process
- Method – visualize!
 - By hand
 - Photoshop/GIMP
 - Illustrator/Inkscape
 - Excel
 - Matlab
 - D3.js
 - Processing.org
 -

Readings for Next Tuesday Jan 26

- Introduction to Information Visualization [pdf](#) – Riccardo Mazza
- [The Eyes Have It](#)
– Ben Schneiderman
- Low-Level Components of Analytic Activity in Information Visualization – [pdf](#) – Robert Amar, James Eagan, and John Stasko

IVIS16 Schedule

1.	Tuesday	19.1	13:15	Intro	DUE:
2.	Tuesday	26.1	13:15	Lecture 2	Reading 1
3.	Friday	29.1	08:30	Lectures 3, 4 (labs)	Project 1, Form Group
5.	Tuesday	02.2	13:15	Lecture 5	Reading 2
6.	Tuesday	09.2	13:15	Lecture 6	Reading 3
7.	Friday	12.2	08:30	Lectures 7, 8 (labs)	Project 2, Proposal
9.	Friday	19.2	08:30	Lecture 9	Reading 4
10.	Tuesday	23.2	13:15	Lecture 10	Reading 5
11.	Friday	26.2	08:30	Lectures 11, 12 (labs)	Project 3, Hello World!
13.	Tuesday	01.3	13:15	Lecture 13	Reading 6
14.	Friday	11.3	08:30	Lecture 14	Reading 7
15.	Friday	18.3	08:30	Final Demo (exam)	Project 4 Final Demo
16.	Thursday	14.4		C-Awards	

What is the Visualization Studio?

VICSTHLM

VISUALISATION INTERACTION COLLABORATION



*Knut och Alice
Wallenbergs
Stiftelse*

The Team



Björn Thuresson
VIC director

Coordinate
Projects
Events



Eirik Dahlbergh
VIC Engineer

Technical Support
Ideation
Critical Feedback



Mario Romero
AGI14 Coach

Guidance
Focus
Support

The Studio

Students' Resources: Visualization Studio

- Research
 - Visualization Supported Collaborative Work
 - Foundational Technology
 - User Evaluations
- Showcase and classroom environment
- Outreach



Technologies in

VICSTHLM

VISUALISATION INTERACTION COLLABORATION



2016-01-19



IVIS16 - L1

- High-resolution projection wall with stereoscopy
- Oculus Rift
- Cinema quality audio
- High-definition video communications with eye contact
- Holographic display
- Multi-touch interactive surfaces
- Eye tracking
- GPU-based computing cluster
- Diverse interaction and sensor systems (haptic, mocap, etc.)
- Haptic Devices
- 3D printer

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Visualization Pipeline

expanded from *Readings in Information Visualization: Using Vision to Think*
By Stuart K. Card, Jock D. Mackinlay, Ben Shneiderman, 1999



Installing the 4K Wall



Studio Contacts

- [Webpage](#)
- [Directions](#)
- [Map](#)
- [Booking](#)
- [Björn Thuresson](#)

Contact Mario

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Next Time

- Present more IVIS projects from the past
- Visualization Pipeline
- The Eyes Have it
- High- and Low-level tasks in Information Visualization
- Questions about project 1



IVIS15 students

Thank you!
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