IVIS21

✎ Edit

Welcome to Information Visualization!
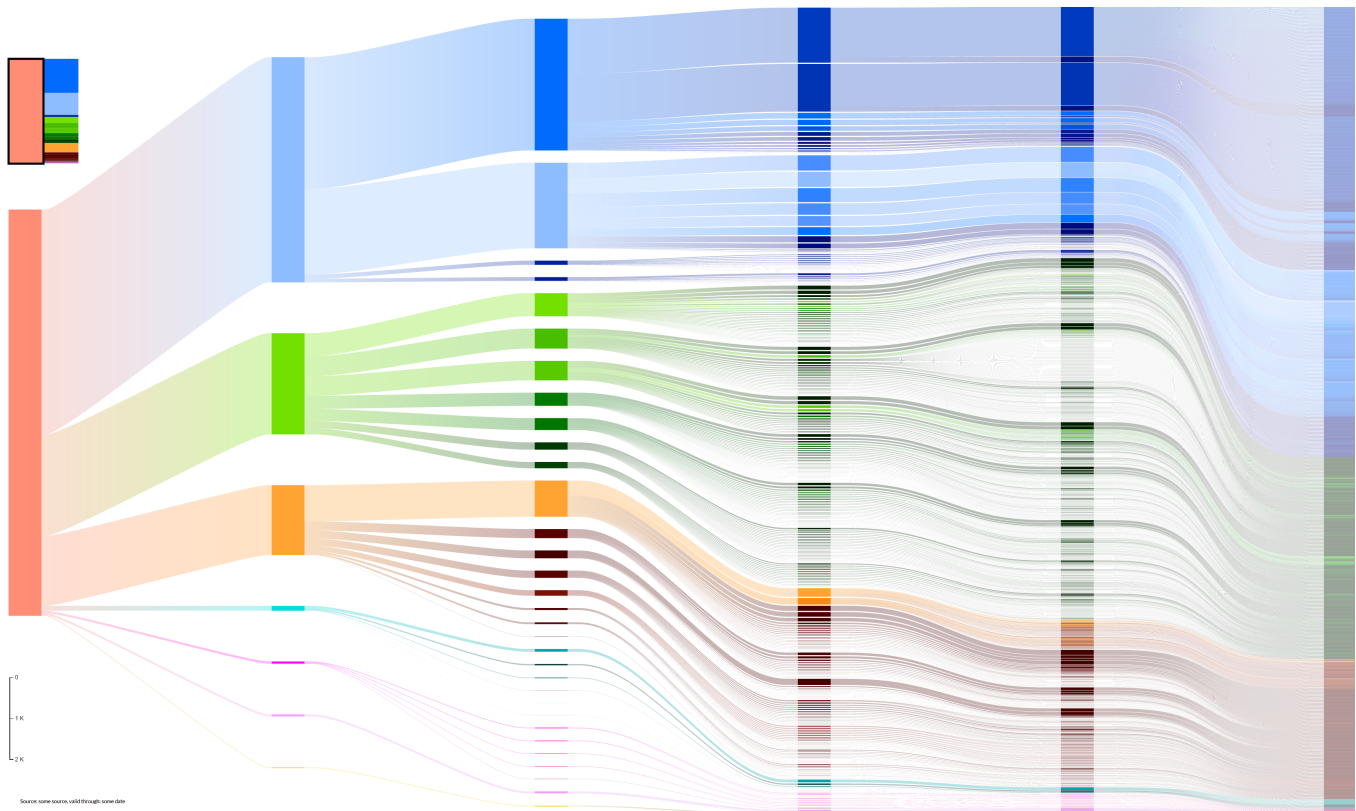
(https://h2020viz.vinnova.se/#/)

This image links to the Vinnova-KTH Horizon 2020 visualization of funded projects by the European Research Council.

Information Visualization is the art of helping people paint ideas from data.

Information on FDK3260 Doctoral branch of this course.

Course Description

After this class, you will be able to:

1. **Design**: Collaborate *online* as groups to create fully-functioning information visualization systems that facilitate actionable insight through interactive data transformations, visual mappings, and view transformations.
2. **Defend**: Defend *online* your design choices through deep domain knowledge.

3. **Critique**: Constructively criticize *online* other information visualization systems using domain theory and practices.
4. **Demonstrate**: Explain and demonstrate *online* your information visualization systems to wide audiences, from novices to experts.
5. **Evaluate**: Elicit constructive criticism *online* from users of your information visualization systems.

To achieve this goal, you will work on two projects and a number of readings. You will get a grade (**A**>=91%, **B**>=81%, **C**>=71%, **D**>=61%, **E**>=51%, **F**<50%). These percentages are computed as follows:

Deliverable	Type	Due	Grade
1. **Project 1**	Visualizing Group Matching.	Jan 28	20%
2. **Group Project** **(https://www.kth.se/social/course/DH2321/page/final-group-projects/)**	**Group** (Individually graded). Milestones: Proposal **(Feb 6 - 10%)**, Hello World Demo **(Feb 12- 10%)**, Final presentation **(Mar 10 - 10%)**, Final Deliverable **(Mar 17 - 20%)**. The final deliverable is a web page with the working project, a video, and other material.	Multiple due dates	60%
3. **Readings**	**Individual** (graded through short quizzes)	Weekly	20%

We will grade each project on its ability to accomplish the five learning outcomes above. We will post detailed grading criteria for each project. You will be responsible for collecting and displaying the evidence of your progress through online project reports (web pages). We will grade your readings through online surveys. Look for information on our KTH Social and Canvas pages and our Facebook group page.

Canvas: https://kth.instructure.com/courses/21381

Facebook: https://www.facebook.com/groups/ivis21   (https://www.facebook.com/groups/ivis21)

Social: https://www.kth.se/social/course/DH2321/   (https://www.kth.se/social/course/DH2321/) (https://www.kth.se/social/course/DH2321/)

Communication

The best way to communicate with me is to send me or Marko a message here in Canvas about the course with a good subject heading. It is much better than email. Thanks! Also, we will always meet in the zoom room **visualmario**   **(https://kth-se.zoom.us/my/visualmario)** .

Course Summary:

Date	Details	Due
Wed Jan 20, 2021	📅 **IVIS Lecture 1: Introduction** (https://kth.instructure.com/calendar?event_id=242310&include_contexts=course_21381)	1:15pm to 3pm
	📝 **IVIS Self-Introduction** (https://kth.instructure.com/courses/21381/assignments/147610)	due by 1:15pm
Wed Jan 27, 2021	📝 **IVIS Readings 1: introduction and the visualization pipeline** (https://kth.instructure.com/courses/21381/assignments/147609)	due by 3pm
	📅 **IVIS Lecture 2: Visualization Pipeline** (https://kth.instructure.com/calendar?event_id=242302&include_contexts=course_21381)	3:15pm to 5pm
	📝 **IVIS Reading Test 1 before Lecture 2** (https://kth.instructure.com/courses/21381/assignments/147597)	due by 3:15pm
Thu Jan 28, 2021	📝 **IVIS Project 1: Visualize Student Group Formation based on Individual Skills and Interests** (https://kth.instructure.com/courses/21381/assignments/147603)	due by 10am
	📅 **IVIS Lectures 3+4: Forming groups** (https://kth.instructure.com/calendar?event_id=242308&include_contexts=course_21381)	1:15pm to 5pm
	📝 **IVIS Group Project Team Forming Activities** (https://kth.instructure.com/courses/21381/assignments/148792)	due by 5pm
Wed Feb 3, 2021	📝 **IVIS Reading 2: Mazza chp 2 Visual Representations and chp 3 Perception** (https://kth.instructure.com/courses/21381/assignments/147605)	due by 3pm

Date	Details	Due
	📅 **IVIS Lecture 5: Data Transformations and Mappings to Visual Representations** (https://kth.instructure.com/calendar?event_id=242304&include_contexts=course_21381)	3:15pm to 5pm
	📝 **IVIS Reading Test 2 before Lecture 5** (https://kth.instructure.com/courses/21381/assignments/147594)	due by 3:15pm
Wed Feb 10, 2021	📝 **IVIS Reading 3 - Mazza chp 4 Multivariate Analysis + The Eyes Have It by Ben Shneiderman** (https://kth.instructure.com/courses/21381/assignments/147606)	due by 1pm
	📅 **IVIS Lecture 6: Visual Perception** (https://kth.instructure.com/calendar?event_id=242301&include_contexts=course_21381)	1:15pm to 3pm
	📝 **IVIS Reading Test 3 before Lecture 6** (https://kth.instructure.com/courses/21381/assignments/147592)	due by 1:15pm
Thu Feb 11, 2021	📝 **IVIS Group Project Proposal** (https://kth.instructure.com/courses/21381/assignments/147602)	due by 1pm
	📅 **IVIS Lectures 7+8: Proposals** (https://kth.instructure.com/calendar?event_id=242303&include_contexts=course_21381)	1:15pm to 5pm
Fri Feb 12, 2021	📝 **IVIS Group Project Final: Individual Contributions** (https://kth.instructure.com/courses/21381/assignments/148793)	due by 5pm
Wed Feb 17, 2021	📝 **IVIS Reading 4: graphs and interaction chp 5 + 7 Mazza** (https://kth.instructure.com/courses/21381/assignments/147607)	due by 1pm
	📅 **IVIS Lecture 9: Visual Structures and View Transformations** (https://kth.instructure.com/calendar?event_id=242305&include_contexts=course_21381)	1:15pm to 3pm

Date	Details	Due
	📝 **IVIS Reading Test 4 before Lecture 9 - Mazza Ch 5 Hierarchical structures and Ch 7 Interaction** (https://kth.instructure.com/courses/21381/assignments/147596)	due by 1:15pm
Mon Feb 22, 2021	📝 **IVIS Group Project Final: Individual Contribution** (https://kth.instructure.com/courses/21381/assignments/147595)	due by 11:59pm
Tue Feb 23, 2021	📝 **IVIS Reading 5: Evaluation of User and Tasks in Information Visualization Mazza chp 8 & Plaisant** (https://kth.instructure.com/courses/21381/assignments/147608)	due by 10am
	🗓 **IVIS Lecture 10: Evaluation of Users and Tasks** (https://kth.instructure.com/calendar? event_id=242306&include_contexts=course_21381)	10:15am to 12pm
	📝 **IVIS Reading Test 5 before Lecture 10 - Mazza Ch 8 Evaluation & Plaisant** (https://kth.instructure.com/courses/21381/assignments/147593)	due by 10:15am
Wed Feb 24, 2021	📝 **IVIS Group Project Hello World Demo** (https://kth.instructure.com/courses/21381/assignments/147601)	due by 1pm
	🗓 **IVIS Lectures 11+12: Hello World Demos!** (https://kth.instructure.com/calendar? event_id=242307&include_contexts=course_21381)	1:15pm to 5pm
Tue Mar 2, 2021	🗓 **IVIS Lecture 13: Evaluations of Projects** (https://kth.instructure.com/calendar? event_id=242309&include_contexts=course_21381)	10:15am to 12pm
Wed Mar 3, 2021	🗓 **IVIS Lecture 14: Feedback to Group Projects** (https://kth.instructure.com/calendar? event_id=242311&include_contexts=course_21381)	1:15pm to 3pm

Date	Details	Due
Fri Mar 12, 2021	📝 **IVIS Group Project Final Presentations** **(https://kth.instructure.com/courses/21381/assignments/147600)**	due by 8am
	📅 **IVIS Final Presentations** **(https://kth.instructure.com/calendar?** **event_id=242313&include_contexts=course_21381)**	8:15am to 12pm
Fri Mar 19, 2021	📝 **IVIS Group Project Final Deliverable - Project Website** **(https://kth.instructure.com/courses/21381/assignments/147599)**	due by 11:59pm
	📝 **Jacobs survey** **(https://kth.instructure.com/courses/21381/assignments/155136)**	