

CSCI 2951-V: Systems for Interactive Data Exploration

Course Information and Syllabus Semester I, 2016–2017

Lectures	3:00-5:20pm on Wednesdays
Room	CIT 368
Lecture Notes	http://cs.brown.edu/courses/csci2951-v/
Text	Research papers (will be handed out in lecture)
Prerequisite	One of CSCI 0320, CSCI 0330; and one of CSCI 1270, CSCI 1951-A, CSCI 1670
Instructors	Tim Kraska (tim_kraska@brown.edu) Carsten Binnig (carsten_binnig@brown.edu)
Office	CIT 333 and 335
Professor's Office Hours	Tim Kraska: by appointment Carsten Binnig: Friday 4-5pm or by appointment
Head TAs	None
UTAs	None
TA Office Hours	None
Time Requirements	You will spend three hours per week in class. The additional time effort outside the class will vary. We expect a time commitment of approximately 10-18 hours per week.
Goals	<p>The goal of this research seminar is to study recently proposed techniques to make data exploration over large data sets more interactive, participate in the development of the next generation of interactive data exploration systems and through it make an active research contribution.</p> <p>In the first part of the seminar students will read and discuss recent papers on interactive data exploration. In the second part students will implement a project based on our platform VizDom/IDEA for interactive data exploration.</p>

Grading	<table border="0"> <tr> <td>Presentations</td> <td>15%</td> </tr> <tr> <td>Reviews</td> <td>15%</td> </tr> <tr> <td>Participation</td> <td>20%</td> </tr> <tr> <td>Project</td> <td>50%</td> </tr> </table>	Presentations	15%	Reviews	15%	Participation	20%	Project	50%
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Participation	20%								
Project	50%								
Incomplete Policy	<p>We expect everyone to complete the course on time. However, we certainly understand that there may be factors beyond your control, such as health problems and family crises, that prevent you from finishing the course on time. If you feel you cannot complete the course on time, please discuss with Prof. Kraska and Prof. Binnig the possibility of being given a grade of Incomplete for the course and setting a schedule for completing the course in the upcoming year.</p>								
Due Dates	<p>Assignments must be handed in by 11:59 pm on their due dates.</p>								
Late Policy	<p>The late-day policy described here applies to all late days other than those due to illness and religious holidays. Thus days missed because of job interviews are included in the late-day policy.</p> <p>Everyone is allowed a total of one late day for handing in a paper review and one late day to hand in the intermediate version of the project code. No late day is allowed for the project presentation and demo(s). Beyond that, you are penalized in your grade.</p> <p>The final project code and paper must be turned in by 11:59pm, Dec. 14, regardless of how many late days you have.</p> <p>If you must miss class or a project deadline because of health issues, please get a note from either health services or the office of student life and contact Prof. Kraska or Prof. Binnig.</p> <p>If you must miss class or a project deadline because of a religious holiday, you may also get an extension without using late days, please contact Prof. Kraska or Prof. Binnig.</p>								
Code Sharing	<p>We expect that most projects will be based on our current open-source interactive data exploration prototype. Thus, the projects itself have to inherit the same open-source license.</p>								
More Information	<p>For more in-depth information and announcements, see the course website: http://cs.brown.edu/courses/csci2951-v/</p>								
Accommodations	<p>If you feel you have physical, psychological, or learning disabilities that could affect your performance in the course, we urge you to contact SEAS (https://www.brown.edu/campus-life/support/accessibility-services/). We will do whatever we can to support accommodations recommended by SEAS.</p>								
Mental Health	<p>Being a student can be very stressful. If you feel you are under too much pressure or there are psychological issues that are keeping you from performing well at Brown, we encourage you to contact Brown's Counseling and Psychological Services (CAPS:</p>								

	https://www.brown.edu/campus-life/support/counseling-and-psychological-services/). They provide confidential counseling and can provide notes supporting extensions on assignments for health reasons.
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Lectures and Due Dates

Date	Topic	Due
2016/9/7	Introduction + Organization	
2016/9/14	Overview of Interactive Data Exploration What is a good paper + how to write a review?	Group membership
2016/9/21	Paper presentation + discussion	Presentation + Review
2016/9/28	Paper presentation + discussion	Presentation + Review
2016/10/5	Paper presentation + discussion Presentation of project ideas	Presentation + Review
2016/10/12	Paper presentation + discussion	Presentation + Review
2016/10/19	Introduction to code base for projects	Project selection
2016/10/26	1-on-1 meetings	
2016/11/2	How to write a research paper + design experiments?	
2016/11/9	1-on-1 meetings	
2016/11/16	Mid-term demo	Project code in git
2016/11/23	Thanksgiving recess	
2016/11/30	1-on-1 meetings	
2016/12/7	Final demos	
2016/12/14	No class	Project code + Paper in git