Name Experiential Data Lab

Classroom 🗵
Studio or workshop
External venue
Online

Codes B-KH-201-DI-202401-10, M-KH-201-DI-202401-10, M-KH-E-201-DI-202401-10

Host Design Institute

Basic info

Туре	ECTS	Contact hours	Student work	Course type	Semester	Unit
Course Week	-	40		Elective	Autumn	

Recommendation Apply to this course if you are interested in exploring data through digitigal, physical or hybrid environments. The environment you will work with will be your choice! You will have the opportunity to work with renowned international interaction design and data visualization experts.

Course is open to all students.

Recommeded for the students of: Product Design BA, Object Design BA, Media Design BA, Animation BA, Interaction Design MA, Media Design MA, Animation MA, Designer Maker MA, Design MA – students from these programmes will be prioritised in case of oversubscription.

Short Description Students will use data as the main medium for exploration in this one-week workshop. They will learn to transform raw information into digital or physical experiences as they will be challenged to think beyond charts and graphs and create experiences that audiences can explore. More specifically, throughout the week, students will engage with the topic through hands-on learning and collaborate to create their own experiential data visualization or physicalization projects that will be presented at the conclusion of the workshop.

Key questions this course week will address:

- How do we relate to the data we collect and curate?
- How can storytelling focus and guide the creation of a visualization?
- How can data be presented to create an engaging experience?

Teachers

Name	Contact information	Short bio	Open hours
Christian Marc	christian@schemadesign.com	Schema Design	N/A
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Kenton Powell	kenton.powell@schemadesign.com	Schema Design	N/A
Minkó Mihály	minko.mihaly@mome.hu	Data Storytelling Hub	N/A
	Karyda@mome.hu	Data Storytelling Hub	N/A
Mary Karyda			

Semester schedule

Course scheduling	Weekly class appointments
Morning Session: 9:00–12.30	

Lunch Break: 12:30–2	1:30	
Afternoon Session: 1:30–5:	:00	

#	Date	Weekly educational content		
1	14/10	Introducing Experiential Data		
		Morning Session: Course introduction		
		Introduction to the workshop, (1.5 hours)		
		Break		
		Lecture: Experiential Data Visualization, (1 hour)		
		Approaches		
		Data Forms		
		FULLIS		
		Afternoong Session: Data Collection and Processing Foundations		
		Workshop: Data Collection and Processing, (1.5 hours)		
		Not just data from official sources, quantified self movement, photo		
		visualization, data diaries		
		Humanizing data		
		o Data types		
		 Simple data collection using Google Sheets 		
		 Objectives 		
		 Introduce and explore experiential data visualizations 		
		 Inspire with a wide-ranging presentation 		
		Discuss data and data collection		
		 Strategies for working with data 		
2	15/10	Tuesday morning: Visualizing data Presentation: Visualizing Data, (1.5 hours) Thinking fundamentally about binding data to attributes Start with no computer examples (e.g. data sculpture) Spatial Temporal Sonification Workshop: Physicalizing Data, (1.5 hours) Tuesday afternoon: Project introduction Discussion: Project Introduction Introduce topic choices and rubric for the group project [Worksheet] What is an area of focus that you feel strongly about? What would you like the audience of your work to experience? Wonder? Dread? Surprise? Excitement? What data could help you tell this story? What forms could help this experience be impactful and memorable? Focus on visualizing data using non-traditional approaches Group working session and presentation of idea Break into groups Discuss and work through their projects Cross-present topic idea and data collection		
		Objectives		
		Cover approaches for visualizing data		
1	1			

		Create teams and begin group project		
3	16/10			
		Day 3: Working Session: Collecting and Sketching Data		
		Wednesday morning: Group project: collecting data		
		Data collection		
		Wednesday afternoon: Group project: sketching visualizations		
		Visualization sketches		
		 Group working session with focus on collecting data and sketching on the group project 		
4	17/10			
	17/10	Day 4: Working Session: Adding Context and Layers		
		Thursday morning		
		Group critique, (1.5 hours)		
		What's working?What's not working?		
		How could this work be more engaging?		
		Workshop: Al-powered Data Visualization, (1.5 hours)		
		 Part demo, part working session, we'll explore how LLMs can help us process and even create data 		
		process and even create data		
		Thursday afternoon, 3.5 hours		
		Group working session		
		Objectives		
		Advancing group project and giving and incorporating feedback		
	10/10			
5	18/10	Day 5: Exploring New Frontiers		
		Friday morning		
		Demo: Spatial Data on the Apple Vision Pro, (1.5 hour)		
		Apple Vision Pro		
		Group working sessions, (1.5 hours)		
		Friday afternoon		
		Presentations and final critique, (2.5 hours)		
		Wine and cheese reception, (1 hour)		
		Objectives		
		 Introduce emerging technologies including the Apple Vision Pro Share projects and conclude the projects 		
		and a projecte and considue the projects		

Requirements and evaluation

Assignments	Evaluation criteria	Deadline	% in evaluation
Design Concept	Ability to demonstrate the thinking process behind the final concept	End of course	30
Experiential Data Mock up	Successful demonstration of main Interaction indented	End of course	30
Final Presentations	Ability to present design process and outcome in a coherent way	End of course	40

Compulsory readings

Recommended readings

Learnings

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	Knowledge	Understanding Experiential Data Visualization Concepts	
	Skills	Data Collection and Processing	
		Creative Visualization Design	
		Collaborative Project Development	
		Present data stories clearly and confidently to an audience.	
	Attitude	Curiosity and Open-Mindedness	
	Responsibility	Contribute actively within group projects	

Exemption	Exemption from attending and completing the course cannot be granted
Exemption	Exemption may be granted from the acquisition of certain competencies and the fulfilment of tasks
	Some tasks can be substituted with other activities,
	A full exemption can be granted

Curriculum connections

Course prerequisites	Is it available as an elective?	Prerequisites in case of elective
No prerequisites	yes	Ability to code is an advantage but not necessary