



## The Five Course Topics – Workshop: Seeing the Green 2024

1 // Interactive Data Visualization.....	1
2 // Artistic Data Visualization.....	1
3 // Data in Move!.....	1
4 // Data Fiction.....	2
5 // Virtual Reality .....	2

### 1 // Interactive Data Visualization (with Markku Turunen, Kimmo Ronkainen)

Interactive visualization means that different views are created based on the data, which are linked to each other in such a way that changes in one view are immediately visible in other views as well. Users are given interactive tools in the form of a user interface, allowing them to influence what the views are like. These interaction techniques give users the ability to decide what the visualization looks like and the opportunity to experiment with the data. Often visualizations like this form together dashboards. In addition to the user interaction, there can be narrative, which helps to explore these visualizations.

#### In this context, we can think these visualizations in the following means:

- Web-based visualizations connected to e.g. video material as an additional material (e.g., viewers of a movie can dig out more information about the subject matter)
- Scripted visualizations embedded into AV-material
- Other?

### 2 // Artistic Data Visualization (with Prof. Dr. Kim Frederic Albrecht, FBKW)

Data is Latin for ‘the given.’ But contemporary data, in its digital form, is never given; it depends on a set of assumptions, configurations, and infrastructures. Such a perspective on data frees the possibility of representing data from normative constraints of visual accuracy, legibility, or efficiency. Instead, the focus lies on the meaning, narrative, and emotional response to a datafied reality.

### 3 // Data in Move! (with Tuomo, Joronen senior lecturer at TAMK)

Data in move means adding movement to data to have a stronger experience and more memorable impact on the viewer. (<https://www.kolenda.io/guides/visual-attention>)  
Hans Roesling - style...

#### The workshop will focus on two topics:

1. Finding metaphors for data storytelling
2. Visual presentation and movement

Based on these topics, presentations are created, utilizing natural resources of Varala and of data sets that will be later announced or selected by the students.

The end result is a short animation, video or presentation.

(E.g. websites with videos consume a lot of electricity, but that is not made visible for the users and they cannot make ecological digital consuming decisions based on facts.)



#### **4 // Data Fiction (Prof. Angelica Böhm, FBKW; Nicole Loeser, IFAI)**

This workshop will start by analyzing scientific and/or statistical data on the topic of nutrition. What facts and perspectives can be read from this? Can this inspire an impulse for action for a scene in the near future? Building on the experiences with the „Art For Futures Lab“ format, co-creative scenes will be developed. Methods such as worldbuilding, design thinking and re-gnosis will be used.

Depending on the expertise brought by the participants in the groups, an artistic realization will take place. This can range from pencil on paper to sophisticated technology. The focus in the creative processes is supported with offers in the area of embodiment, nature walks and guided meditation. The final presentation can be interactive and/ or multimedia-based.

#### **5 // Virtual Reality (with Prof. Dr. Björn Stockleben FBKW, Dimitris Charitos and Caterina Antonopoulou, NKUA )**

Virtual Reality offers exciting possibilities for visual data exploration on the border between documentary approaches and visualization. Inspired by the real-life "data walks" we intend to do in Tampere, we want to create virtual data landscapes for virtual data walks. We will explore how to turn environmental and geoinformation data into aesthetic objects and environments. By using VR technologies, we will seek ways to make data perceptible beyond its factual dimension. Depending on their skill level and their background, participants may work with existing tools like DataViz VR, manually draw datascares with Quill or use WebXR Frameworks like aframe.io.

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#### **About GEM**

GEM - Green Education in Media is an Erasmus+ Cooperation Partnership between nine international partners (2022 - 2025):

- Film University Babelsberg KONRAD WOLF, Germany (Project Lead)
- Tampere University, Finland
- Tampere University of Applied Sciences, Finland
- National and Kapodistrian University of Athens, Greece
- University of Malta, Malta
- Academy of Dramatic Art, University of Zagreb, Croatia
- Jagiellonian University in Kraków, Poland
- Lodz Film School, Poland
- Institute for Art and Innovation, Germany

Together they are working on:

- Environment and fight against climate change
- Supporting digital and green capabilities of the higher education sector
- Green skills
- Creating new, innovative or joint curricula or courses
- Digital content, technologies and practices

GEM is funded by the Erasmus+ Programme of the European Commission under Grant Agreement No. 2022-1-DE01-KA220-HED-00008864

