Disclaimer: *Below you find some example questions, which should help you prepare for the exam. However, note that the actual questions at the exam can be very different and can cover all material presented in the lecture!*

Visualization Mapping

a) Which visual channels can be used in a scatterplot besides position?
b) How does a scatterplot matrix work? How can you see correlations?
c) How does linking and brushing work?
d) Draw a visualization of the following data using *parallel coordinates*.

Color, size, shape
→ For each row-col pair it represent data.

	Age	Height	Shoe size	Number of children
User 1	36	195	46	0
User 2	42	187	44	3
User 3	25	172	40	1
User 4	32	168	39	0
User 5	34	160	37	2
User 6	55	164	38	2
User 7	40	176	41	1

e) What does it mean when the lines between two axes in a parallel coordinates visualization meet in a point? Negative correlation
f) What are glyphs? For which type of data are they typically used? → Small objects that depict attributes of data record. → multivariate
g) How do star glyphs/stick figures work? How do they encode the data?
h) What are the advantages/disadvantages of a rainbow color map? Unordered
i) What does it mean, when a visual channel (e.g., color) is *perceptually linear/ordered*?
j) What are the characteristics of a sequential / diverging color map?