

## **Zero exam**

### **Rules and exam form**

If you have submitted and obtained a positive grade from all projects, you can take the zero-term exam (kolokwium). The exam has to be taken during normal class hours at any point during the semester, provided the above condition is met. Please notify the instructor at least 3 days in advance.

You will find a list of potential questions below, you can expect to receive up to 5 questions (at random) from the list as your exam task. The exam is written, you will have 1.5h (one class) to answer the given questions and provide explanations to your answers. You are free to draw graphs to help explain your answer.

No extra resources are allowed during the exam (cheatsheets, lecture notes, own notes, internet, etc).

### **Question pool**

1. List as many image distortion types as you can.  
Describe 2.
2. Explain the (main) steps of edge detection.
3. Explain the concept of image segmentation.
4. Describe the CMYK and HSV colour models.
5. Explain the functioning of a convolution layer.
6. Describe the concept of object detection.
7. Compare supervised and semi-supervised learning.
8. List as many basic morphological operations as you can. Describe 2.
9. Explain the (main) steps of corner detection.
10. List the geometric primitives used in computer graphics.
11. ...