

Danish School of Media and Journalism Visual Communication/Graphic Design Creative Code Spring 2024, 4th semester 5 ECTS

Aims:

Ability to apply code as a creative means for design of visual concepts.

Basic understanding of the programming language Processing/P5.js, computational thinking and the associated programmatic principles.

Pedagogical and didactical approach:

The learning activities in this course are based on the basic principles of Reflective Practice Learning (RPL; see the curriculum). The course will be a mix of presentations and self-study. There will be exercises and tasks that are solved individually and in groups. The student learns to link actions in practice with theoretical reflection and to incorporate relevant theory and knowledge for the field of study. This is done to justify and qualify their actions and choices.

Working methods:

The course is a combination of lectures, live coding sessions, tutorials, group work, peer feedback and assignments. Assignments and projects are worked on individually or in groups. During the course, importance is placed on analysis and reflection on feedback on the student's own as well as other students' products and process.

16.01.2024

Side 1 / 3

Learning outcomes:

The students will obtain the following during the course:

Knowledge and understanding:

- Overview of the field: History of creative coding and how it impacts the evolution of graphic design as a practice.
- Understanding of programming related to the aesthetic quality of a graphic design product and vice versa.
- Understanding of code applied to extend visual/graphic ideas into self-contained interactive design systems capable of producing multiple variants of a visual/graphic form.

Skills:

- Basic coding skills, file handling and use of libraries in the Processing language.
- Ability to conceive, describe, plan and code self-contained design systems.

Competences:

- Hands-on experience with coding as a creative means.
- Ability to work with mathematics, logic and structured thinking.
- Ability to independently seek coded solutions to identified problems.

Literature, compulsory:

- Reas, C. & Fry, B. (2015) Getting Started With Processing A Hands-On Introduction (2nd Edition), Maker Media Inc
- Hartelius, A.M: Compendium with step-by-step introduction to the PDE, basic geometric figures and attributes, transformations, functions, variables, algorithms, loops



and conditions, import and export of vector graphics, interactive events, arrays, matrices and OOP.

Literature, optional:

- Shiffman, D. (2015), Learning Processing (2nd Edition), Morgan Kaufmann
- Shiffman, D. (online), The Nature Of Code, Self-published, accessible via http://www.natureofcode.com
- Lauren McCarthy: Getting Started with p5.js Making Interactive Graphics in JavaScript and Processing, Maker Media Inc
- P5js.org
- Rune Madsen: "Programming Design Systems" på https://programmingdesignsy-stems.com/
- Gerstner, Karl (2007), Designing Programmes, Lars Müller Publishers
- Armstrong, Helen (ed.) (2016), Digital Design Theory, Princeton Architectural Press

Literature (available online):

- Processing.org
- LinkedIn Learning
- Daniel Shiffman: "Coding Train" på https://www.youtube.com/user/shiffman

Tools:

Processing and P5.js.

Adobe Illustrator and Photoshop. Pen and paper.

Preconditions for the exam:

Meeting the exam prerequisites is a requirement for the student to participate in the course exam. Examination prerequisites may include attendance, participation, group work, assignments, presentations, etc. Failure to meet an examination prerequisite will result in the student failing an examination attempt.

Mandatory attendance:

Physical attendance is compulsory on all school days. If, in exceptional cases, there is no compulsory physical attendance for teaching or learning activities, this is indicated with an "FF" (voluntary attendance) in itslearning.

Compulsory participation:

Participation is compulsory in group work and feedback.

Remedial options:

In case of legal absence, remediation applies.

Substitute assignments: absences from teaching and learning activities may be replaced by one or more assignments if the teacher deems it possible. If the student's absence from teaching and learning activities is deemed excessive in relation to the content and learning objectives of the course, the course must be rescheduled.

Preconditions for the exam:

All scheduled lessons must be attended. Assignments, group work, and assignment reviews must have be participated. All set assignments must be punctually handed in and approved.

Examination:

An overall assessment on the 7-point scale with internal examiner. Examination is individual or in groups of max. 2 students. 15 minutes oral examination; grading included (+ 5 minutes for 2-person group examination).

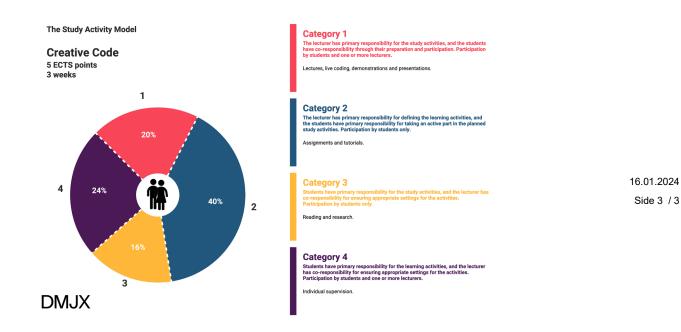
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Examination format: The course ends with a creative solution in which the student documents his/her competences to independently analyze, assess, document, and solve design and coding problems.

Students are assessed individually. The assessment reflects an overall evaluation of the creative solution.

Study Activity Model:



Godkendt KV, 18. december, 2023