Seminar 3 - instructions

Read the following texts:

- Dalsgaard, P. (2017). Instruments of inquiry: Understanding the nature and role of tools in design, *International Journal of Design*, 11(1).
- Blomkvist, J., & Segelström, F. (2014). Benefits of external representations in service design: A distributed cognition perspective. *The Design Journal*, 17(3), 331-346.
- Dix, A., & Gongora, L. (2011). Externalisation and Design. In Proceedings of DESIRE´11, Eindhoven, the Netherlands. ACM, New York, USA.

Before the seminar you are required to write a short reflection (of no more than 1 A4) that you bring to the seminar.

Try to connect each paper to things you have done in the course. What tools and externalizations have you used and how have they helped develop your ideas and your knowledge further in relation to the group project?

Conduct a seminar where you discuss these topics based on the preparations of each participant.

Submission

After the seminar, answer the following questions and submit as a PDF on no more than 2 pages. Reference all the texts in a meaningful way.

- What is the role of tools for transformation and thinking in design?
- What were the benefits (if any) of working with different representations of your design ideas?
- Compare the three texts and discuss their differences.

Optional part
For higher grades (VG/ 4,5), read also the following text and answer the questions on an additional page.

- Larkin, J. H., & Simon, H. (1987). Why a Diagram is (Sometimes) Worth Ten Thousand Words. *Cognitive Science*, 11, 65-69.
  - What are diagrammatic and sentential representations, and how are they different in terms of perception and cognition?
  - How can these concepts () be used to understand the value of representations in design, and how do they influence the choice of representation (how to manifest ideas and information in design)?