

Task 02

A simple RFID interface



Three aspects of RFID interaction

This week we will build a simple RFID application. We want you to explore three aspects of RFID interactions:

- the *form* of the tags
- the *form* of the reader
- the interaction *feedback*

We want you to explore the possibilities for physical tags in terms of material, shape, colour, weight, etc. and how this relates to a reader and screen-based interface.

The focus of this exercise is to explore the mapping between physical objects, readers and feedback (on screen and with sound). You must avoid designing a complex service and instead work with simple and satisfying experiences with one-to-one mappings. Consider colour, time, sound, weight, iconography, character as starting points for simple relationships.

Process

We expect you to work in groups of 2-3. You should arrive at a simple concept very quickly, so that time can be spent on making good prototypes of the tags, the reader and the screen designs.

Tools

We are providing you with a ready-made platform to work with, this consists of three raw RFID tags each and a working reader that uses Processing to display the results of interaction on an iMac. You will also need to test the application on your own machine.

We have a wide variety of RFID tags for you to test, when you have arrived at a concept and sketches for your tag designs, talk to us about getting hold of the tags.

The reader we are using is 160mm by 95mm and 48mm deep. You can design anything you want on top of this platform. Make sure that the tags that you design are readable through the materials that you use.

Deliverables

On Friday you should present your working prototype, explain your design process, and evaluate the project.

Week 1	
Friday 13:00	Introduction to task 2
Week 2	
Monday 09:00	Lecture Previous RFID projects
Monday 13:00	Mentoring with Einar
Tuesday	Theme courses
Wednesday 13:00	Mentoring with Einar
Thursday	Mentoring (contact us)
Friday 09:00	Presentations
Friday 13:00	Intro to Task 3