

# Open Lab

## A web application for conducting and sharing online experiments

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<https://open-lab.online>



### Problem

- Conducting an online study is still a challenge for a researcher without programming knowledge.
- Setting up and administering a web server presents a high technical hurdle.
- Lack of web applications that can host an online experiment.

### Solution

- Open Lab makes it easy to host studies online.
- Provides a native integration with the *lab.js* experiment builder.
- Supports collaboration with colleagues and encourages the use of open science practices such as sharing the experiment code.
- Protects the privacy of participants' data.

### Technical information

- Server-side *Express.js* application
- *MongoDB* databases
- Schemas for tasks, studies, users, tasks parameters and results.
- Free plan for 1 project with up to 100 participants

## For researchers

### Tasks

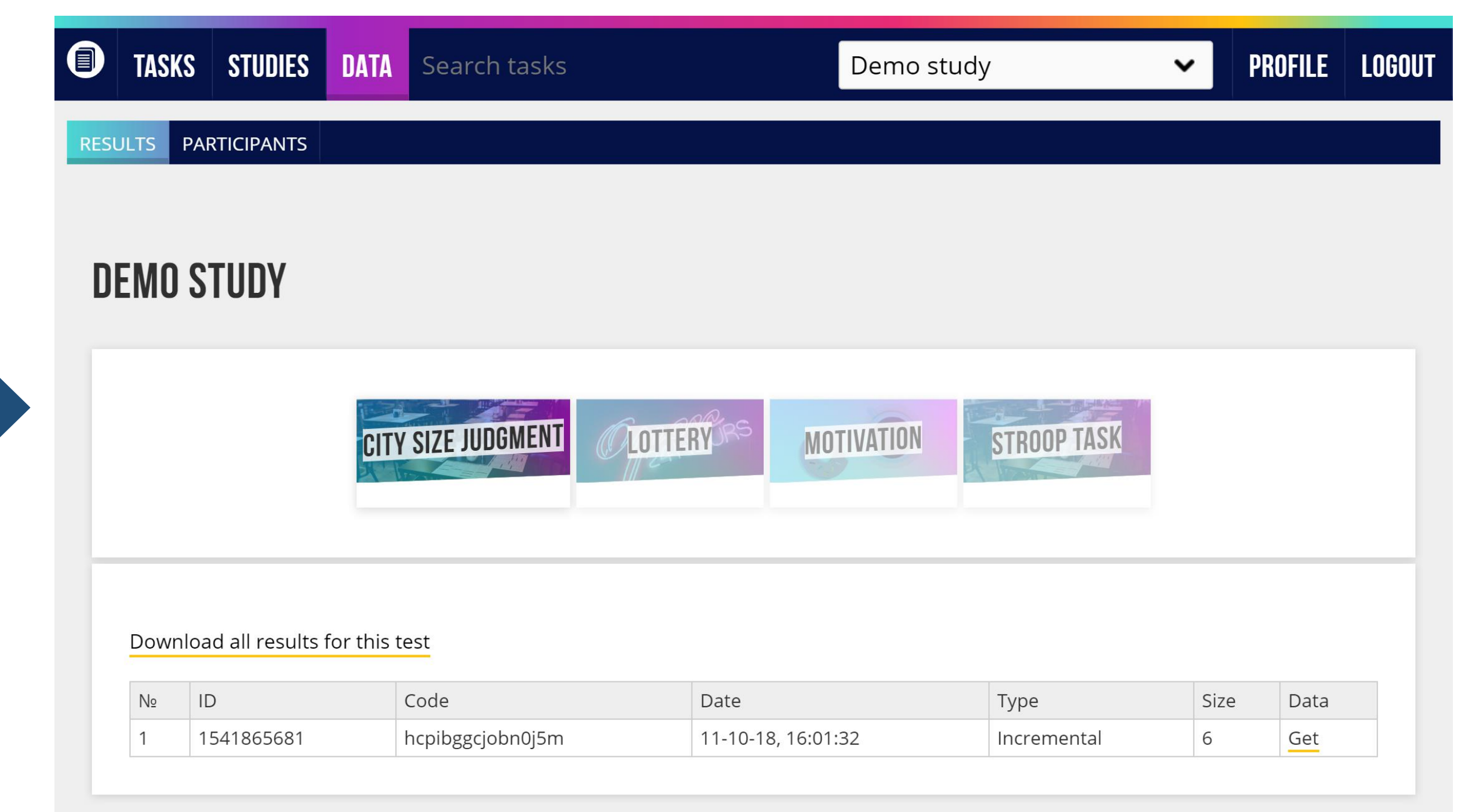
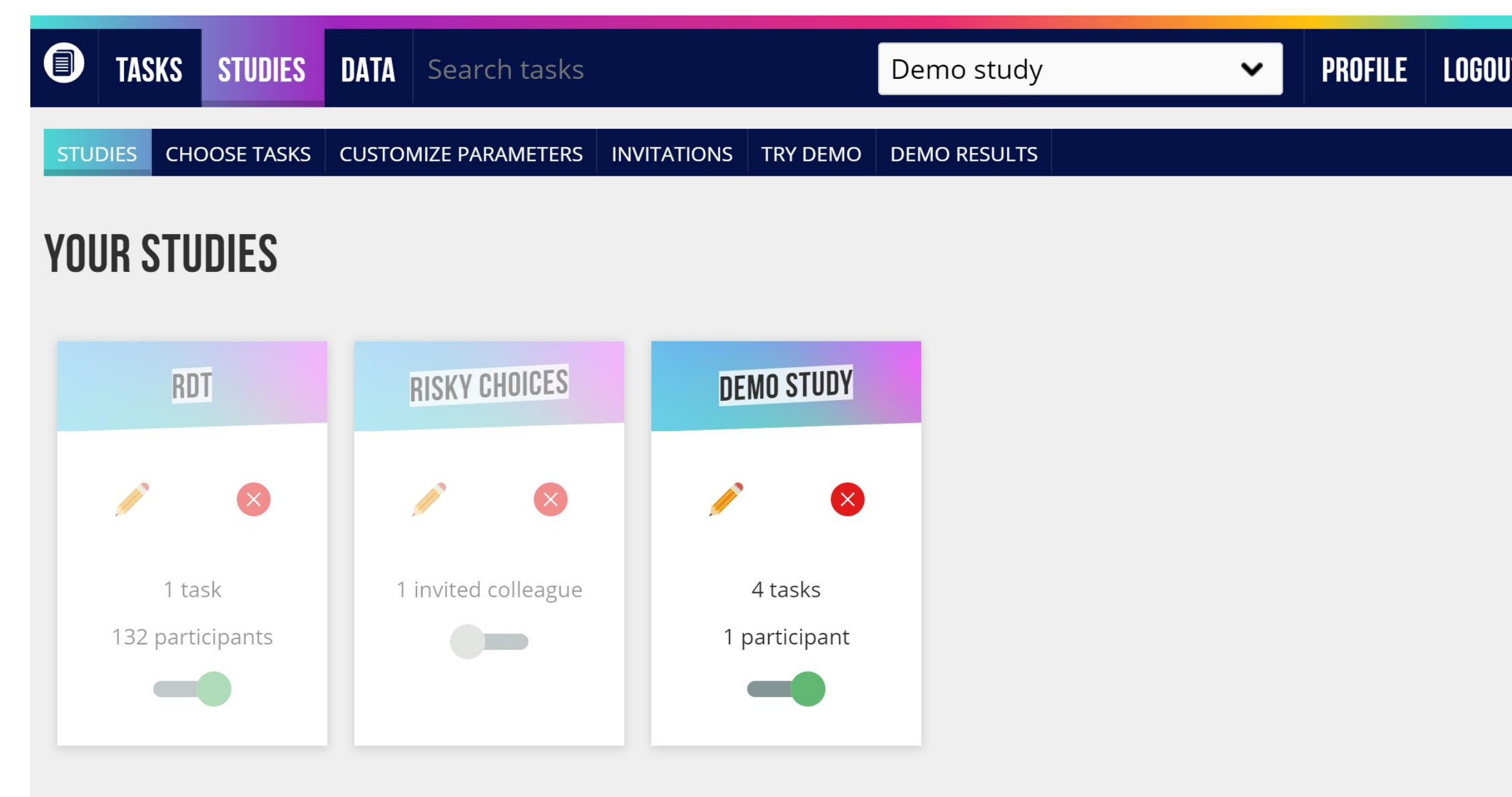
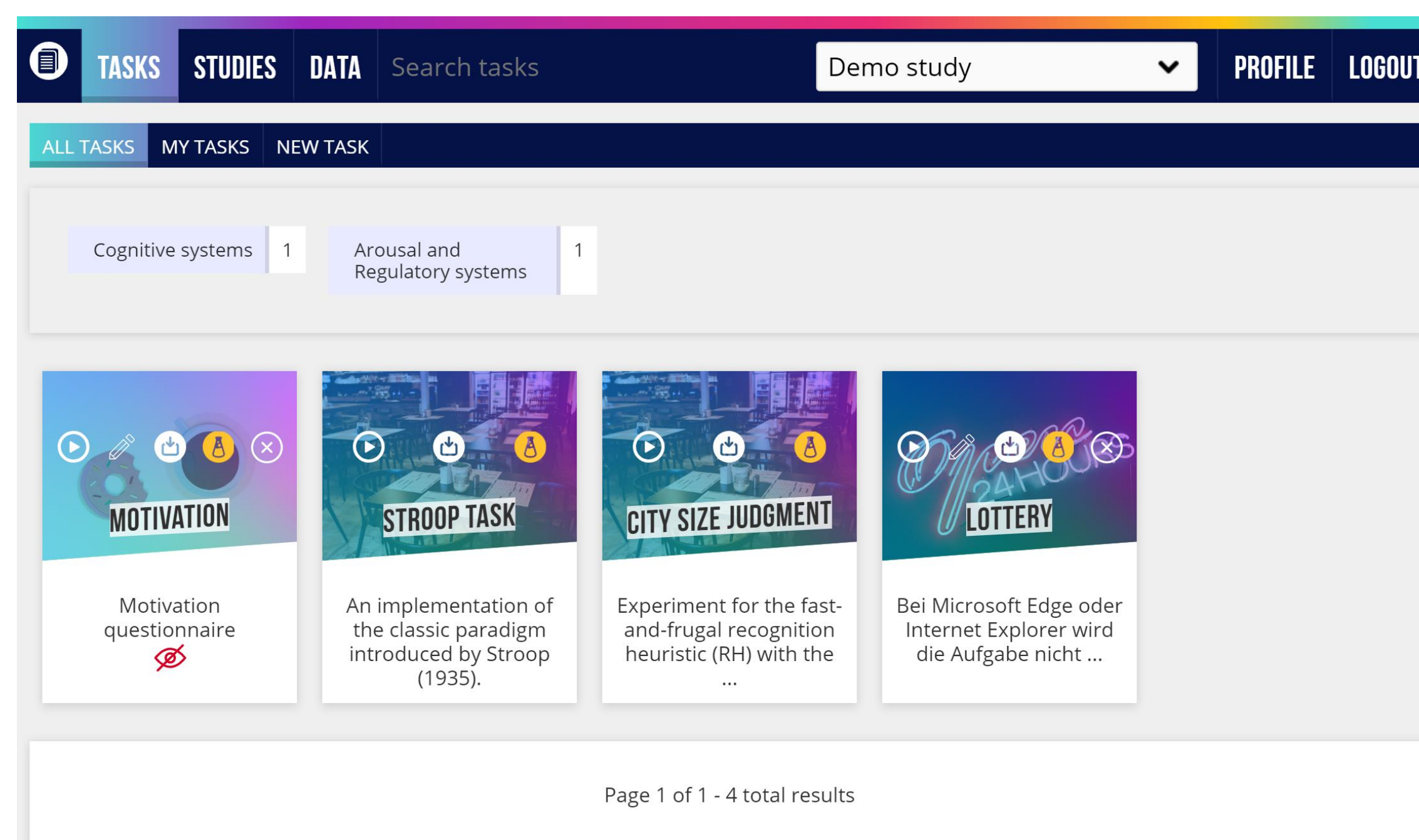
- Upload a task from the *lab.js* with just a click.
- Explore and adapt tasks from our library.
- Publish and share your tasks with the community if you choose.

### Studies

- Combine several tasks into one study.
- Studies, tasks and data can be shared among researchers with different Open Lab accounts.
- Modify the task parameters for each study.

### Data

- The results are saved on the server during the experiment and at the end of it.
- Export data as CSV files.
- Filter data by task, participant or project.



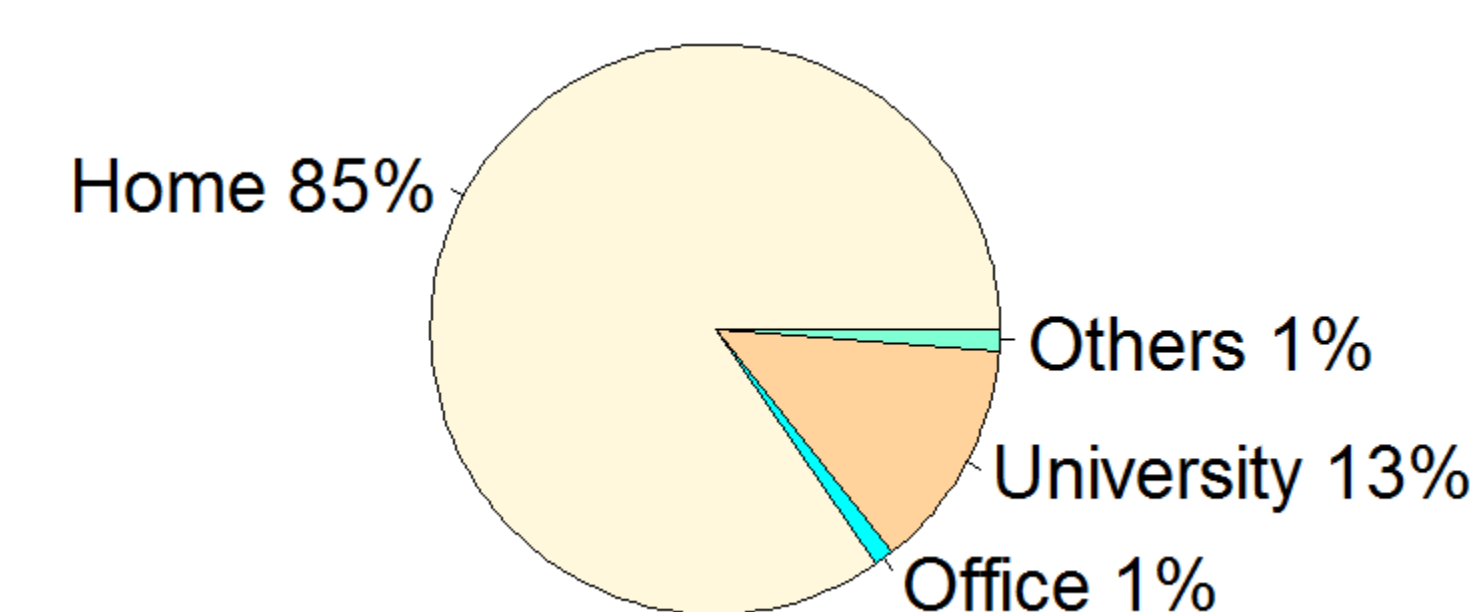
## For participants

- Various registration strategies: participation code, email, social network accounts.
- The task workflow guides participants through the experiment and prevents multiple participation.
- Participants can request the deletion of their data.

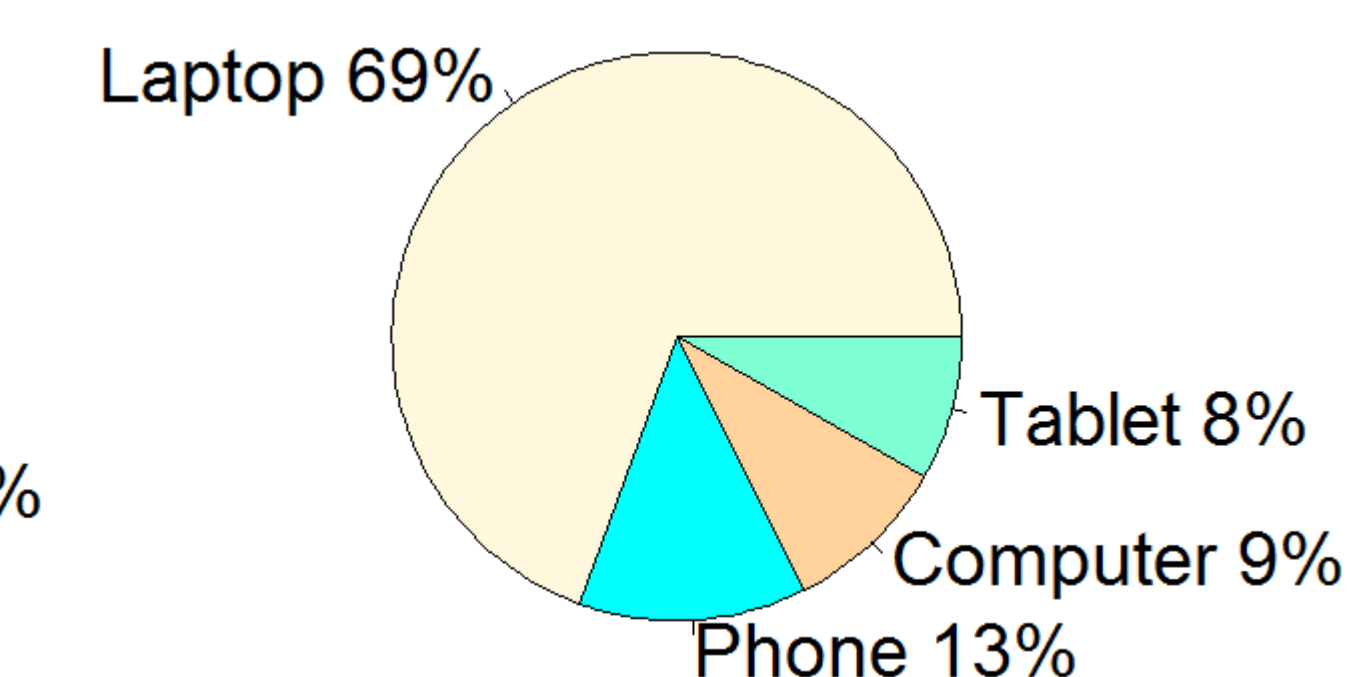
## Validation study results

- Decision-task with two lotteries
- Time: 30 min.
- $N = 85$  (dropout rate of 9%)
- Only 2 (2%) reported technical problems

### Location (self-report)



### Device (self-report)



### Platform (browser data)

