

# Jupyter study

Hello! Thank you for your interest in our research. We study how people perceive cells in computational notebooks like Jupyter. Before proceeding, please read and agree with the following electronic consent.

We plan to include the results of this survey in a scientific publication.

When the research results are published or presented, no personally identifiable information will be shared. Your confidentiality will be kept to the degree permitted by the technology used.

If you have any concerns or questions about your rights as a participant or about the way the study is being conducted, please contact \_\_\_\_

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\* Required

## 1. ELECTRONIC CONSENT \*

Please select your choice below. Selecting the Yes option indicates that: i) you have read and understood the above information, ii) you voluntarily agree to participate, and iii) you are at least 18 years old. If you do not wish to participate in the research study, please decline participation by selecting No. Please note that this survey will be best displayed on a laptop or desktop computer. Some features may be less compatible for use on a mobile device.

*Mark only one oval.*

☐ Yes

☐ No

Jupyter  
splitter  
experiment

In this survey, you will be asked to complete four tasks. In every task, you will see three different ways of presenting the same notebook and will be asked to score which variant you liked the most. The experiment will take roughly 15 minutes of your time to complete.

Link to the tasks: <http://3.250.156.226:9999/>  
Password: Splitter1337

During this survey, we will not be gathering any personal information except your answers to these two questions:

## 2. How frequently do you use computational notebooks? \*

*Mark only one oval.*

☐ Less than once a week

☐ 2-3 times a week

☐ Every day

### 3. How many years have you been programming in Python? \*

#### Test example

Go to the Task0 folder.

Link to the tasks: <http://3.250.156.226:9999/>

Password: Splitter1337

Here is a test task. Using it, we will show how to approach the next ones.

### Open the script.py file and read the code

You do not have to understand the code in all details. It would be enough if you have a basic understanding of what is happening in the code. For example, you can see that the first lines are about data downloading, then a model is trained, and finally, graphs are built.

### 4. How well do you understand the script? \*

*Mark only one oval.*

	1	2	3	4	5	
Do not understand	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Perfectly understand

### Now open and look into the notebook\_a и notebook\_b files (in any order).

In these files, we have the same code as in the script file, however presented in the notebook format. After you inspect both notebooks, please answer the following questions:

### 5. What representation of code was the easiest to perceive? \*

*Mark only one oval.*

- ☐ The script
- ☐ Notebook\_a
- ☐ Notebook\_b

6. Would you rather slice this script into the cells in a different manner? \*

Please note that you can only split the code into cells (or merge them). You cannot change the order of the lines or omit them.

*Mark only one oval.*

☐ Yes

☐ No

Task 1

Go to the Task1 folder

Open the script.py file

7. How well do you understand the script? \*

*Mark only one oval.*

	1	2	3	4	5	
Do not understand	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Perfectly understand

Now open and look into the notebook\_a и notebook\_b files (in any order).

8. What representation of code was the easiest to perceive? \*

*Mark only one oval.*

☐ The script

☐ Notebook\_a

☐ Notebook\_b

9. Would you rather slice this script into the cells in a different manner? \*

Please note that you can only split the code into cells (or merge them). You cannot change the order of the lines or omit them.

*Mark only one oval.*

☐ Yes

☐ No

Task 2

Go to the Task2 folder

Open the script.py file

10. How well do you understand the script? \*

*Mark only one oval.*

	1	2	3	4	5	
Do not understand	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Perfectly understand

Now open and look into the notebook\_a и notebook\_b files (in any order).

11. What representation of code was the easiest to perceive? \*

*Mark only one oval.*

☐ The script

☐ Notebook\_a

☐ Notebook\_b

## 12. Would you rather slice this script into the cells in a different manner? \*

Please note that you can only split the code into cells (or merge them). You cannot change the order of the lines or omit them.

*Mark only one oval.*

☐ Yes

☐ No

## Task 3

[Go to the Task3 folder](#)

## Open the script.py file

## 13. How well do you understand the script? \*

*Mark only one oval.*

	1	2	3	4	5	
Do not understand	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Perfectly understand

Now open and look into the notebook\_a и notebook\_b files (in any order).

## 14. What representation of code was the easiest to perceive? \*

*Mark only one oval.*

☐ The script

☐ Notebook\_a

☐ Notebook\_b

## 15. Would you rather slice this script into the cells in a different manner? \*

Please note that you can only split the code into cells (or merge them). You cannot change the order of the lines or omit them.

*Mark only one oval.*

☐ Yes

☐ No

## Task 4

[Go to the Task4 folder](#)

## Open the script.py file

## 16. How well do you understand the script? \*

*Mark only one oval.*

	1	2	3	4	5	
Do not understand	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Perfectly understand

Now open and look into the notebook\_a и notebook\_b files (in any order).

## 17. What representation of code was the easiest to perceive? \*

*Mark only one oval.*

☐ The script

☐ Notebook\_a

☐ Notebook\_b

18. Would you rather slice this script into the cells in a different manner? \*

Please note that you can only split the code into cells (or merge them). You cannot change the order of the lines or omit them.

*Mark only one oval.*

☐ Yes

☐ No

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