Reminder to record class

MatLab bootcamp session 2: single-subject data

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Questions/comments about the homework?

Reminder to launch homework poll

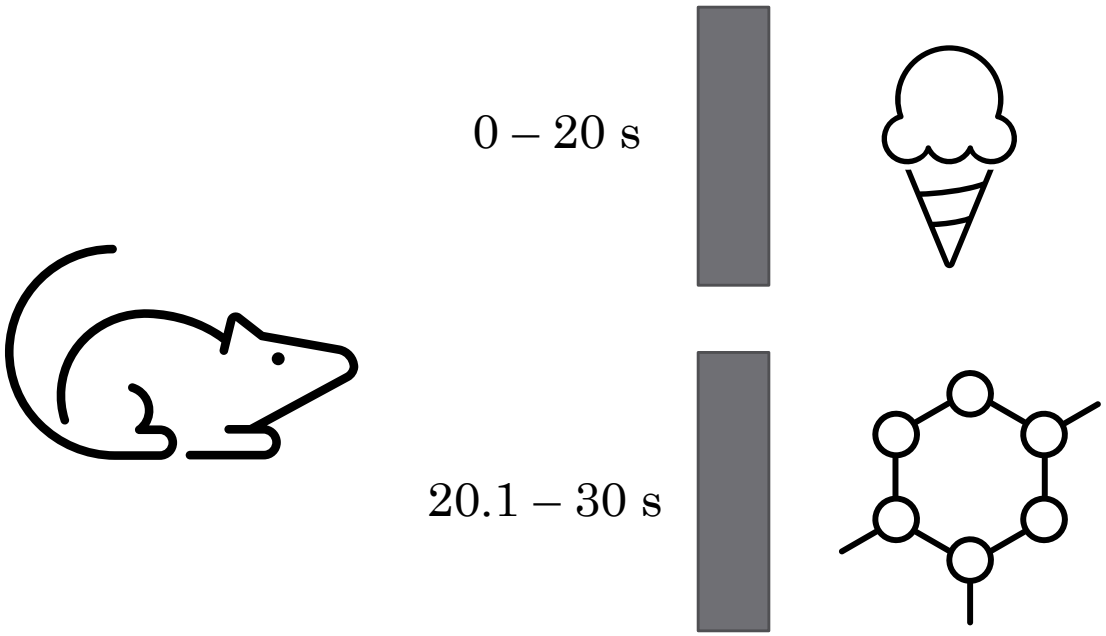
The process of starting a script is always the same

- If you always follow the same steps, then you have to spend less time thinking

The process of starting a script is always the same

1. Title sequence
2. Set paths
3. Initialize
4. Analyze
5. Save and export

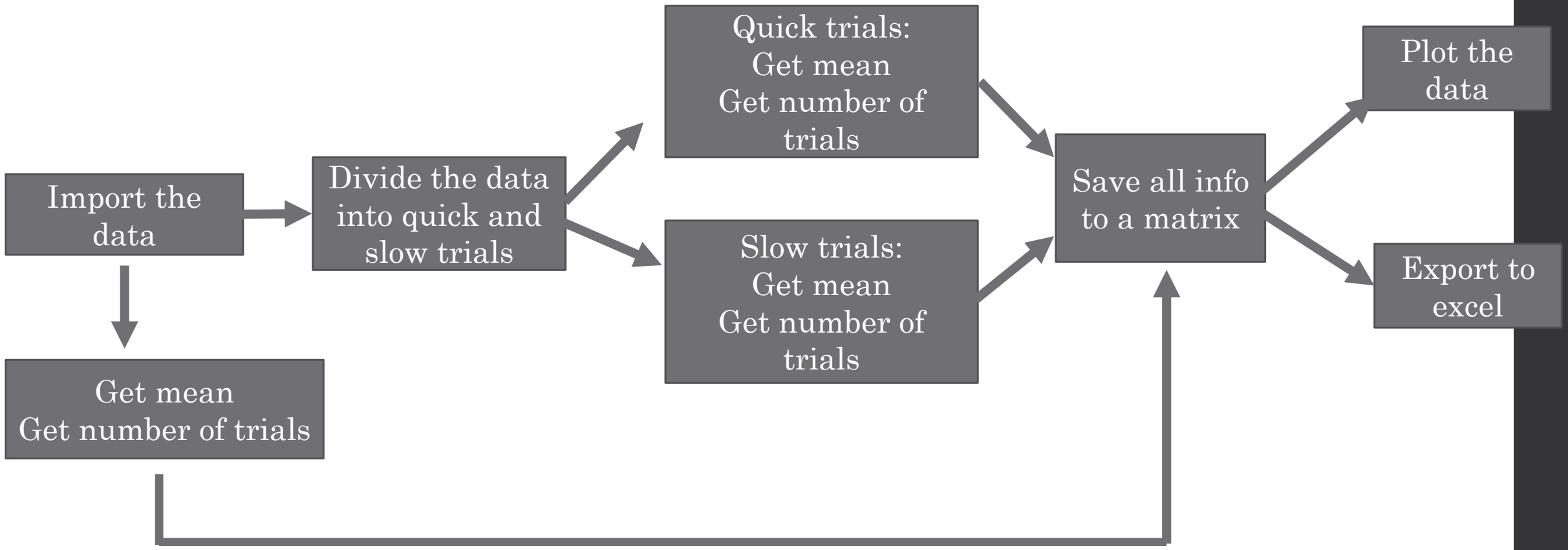
Rat data set: experimental set-up



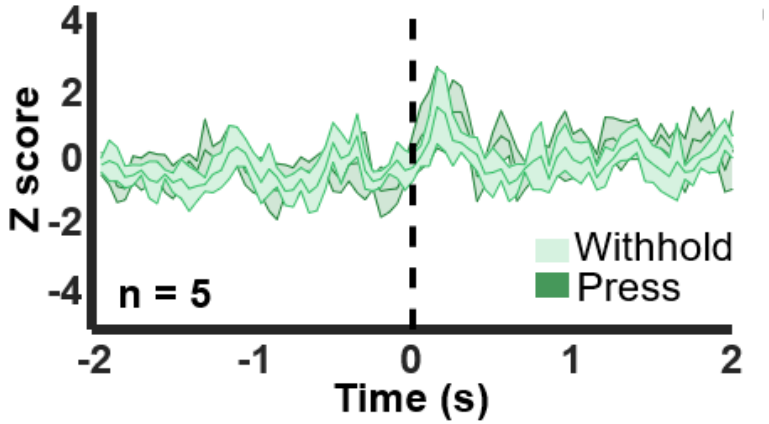
<u>Questions of interest:</u>

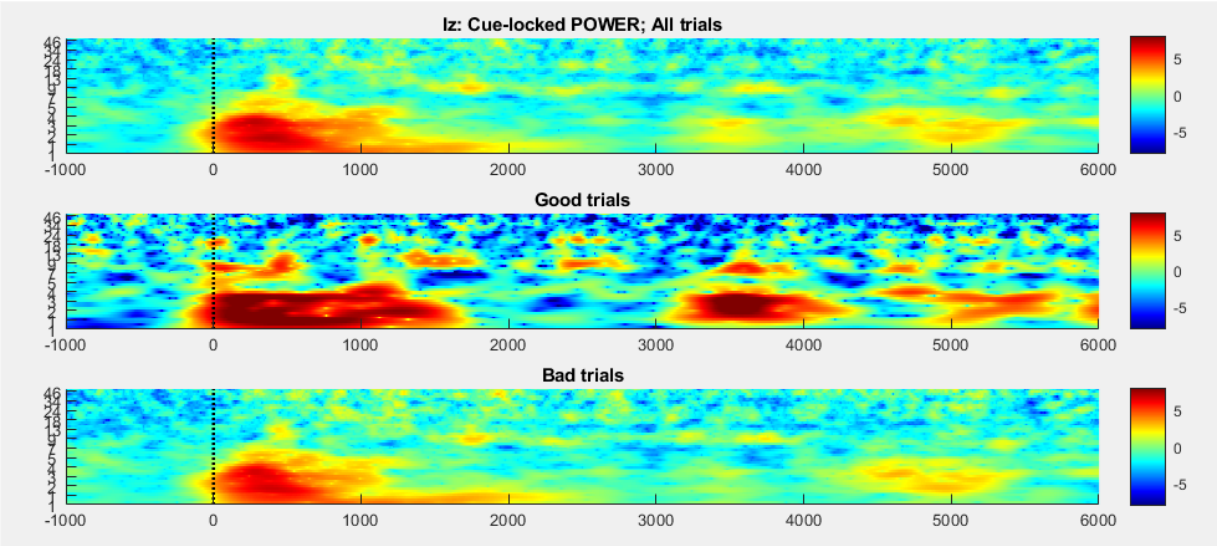
1. How many total trials were there?
2. How many ice cream (quick) trials were there?
3. How many cocaine (slow) trials were there?
4. What were the mean latencies of all the trials, quick trials only and slow trials only?

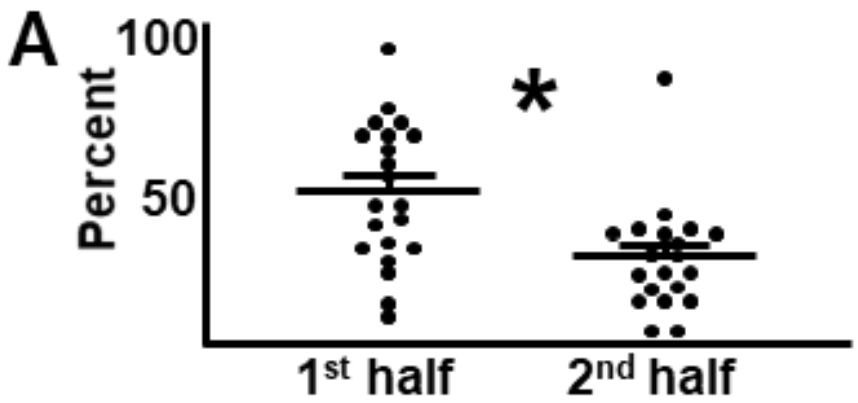
Plan for a script that analyzes single-subject data:

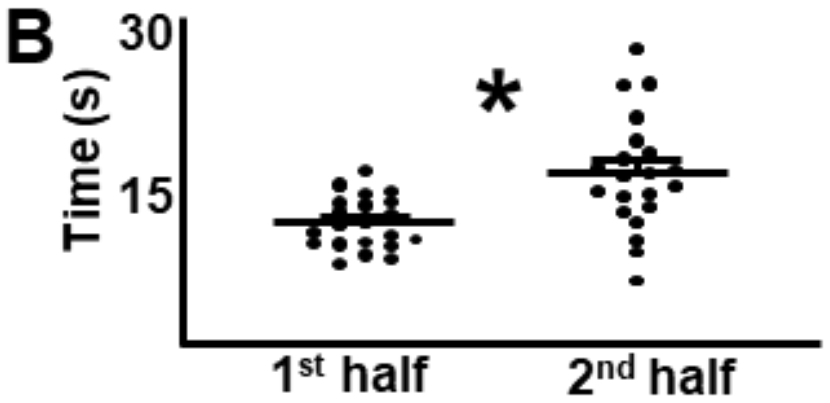


Why is it important to learn how to sort the data?









On to MatLab!

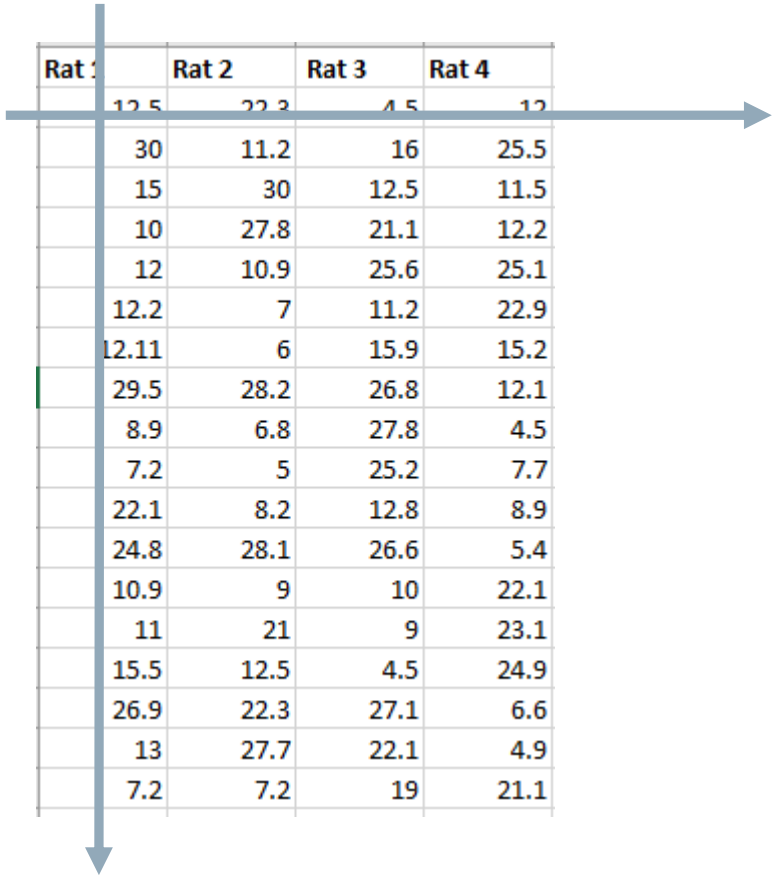
MatLab syntax of the day:

- **nanmean(data, dimension)** -> calculates mean of the data in the specified dimension/direction. Ignores nans.

- **size(data, dimension)** -> gives you how many rows or columns are in your dataset.

Dimension 2 = columns

Dimension 1 = rows



Rat 1	Rat 2	Rat 3	Rat 4
12.5	22.3	4.5	12
30	11.2	16	25.5
15	30	12.5	11.5
10	27.8	21.1	12.2
12	10.9	25.6	25.1
12.2	7	11.2	22.9
12.11	6	15.9	15.2
29.5	28.2	26.8	12.1
8.9	6.8	27.8	4.5
7.2	5	25.2	7.7
22.1	8.2	12.8	8.9
24.8	28.1	26.6	5.4
10.9	9	10	22.1
11	21	9	23.1
15.5	12.5	4.5	24.9
26.9	22.3	27.1	6.6
13	27.7	22.1	4.9
7.2	7.2	19	21.1

MatLab syntax of the day:

- %% Section break
- % Comment

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