# Answer sheet Processing lab 1

Instructions: Fill out your answers below. Make a PDF of the complete file, and upload that **PDF** on Blackboard.

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## **Blackboard question 1**

***1A: For example 3: what is the predicted task time for the model that does all steps as fastman in milliseconds?***

The predicted task time for the model which does all steps as fastman is 180 ms. This is calculated by adding the time for the perceptual step twice (each being 50 ms, so together they’re 100 ms), the time for the cognitive step is added twice (which are 25 ms respectively, resulting in a total time of 150 ms together with the perceptual step) and the motor step is added once (which is 30 ms), resulting in a total of 180 ms.

***1B: For example 3: What is the predicted task time for a model that has the fastest perception, takes average time for cognitive steps, but is the slowest in motor execution?***

The predicted task time for the model which does the steps as described above is 340 ms. In this case, the time for the fast perceptual step is 50 ms, the average cognitive step is 70 ms and the slow motor step is 100. We know that the total time is twice the perceptual time (so 2x 50 ms equals 100 ms) plus twice the cognitive step (so 2x 70 ms, which is 140, resulting in a total of 240 ms) and once the motor step (which is 100 ms), resulting in a total predicted task time of 340 ms.

***1C: For example 4: What is the predicted slowest time that we might observe in this experiment?***

The predicted slowest time we might observe is 1040 ms. The predicted slowest time is the case in which all steps are the slowest, so the perceptual step takes 200 ms, the cognitive step takes 170 ms and the motor step takes 100 ms. We then calculate the total predicted slowest time by adding the slowest timing for the stimulus, 240 ms, to twice the perceptual step (240 + 400 = 600 ms), twice the cognitive step (600 + 340 = 940 ms) and once the motor step (940 + 100 = 1040 ms). So the total is 1040 ms.

***1D (paste a picture or screenshot below): For example 5: add a picture or screenshot of the scatterplot (as an image), Make sure to clearly label the x- and y-axis (give name and measurement unit, e.g. “time (ms)”) and to use an appropriate range of values on each axis.***

[Insert answer + picture]

## **Blackboard question 2:**

2A: Copy screenshots or pictures of 10 different plots below.

2B: Copy screenshots or pictures of 10 different plots below.

2C. Answer:

## **Blackboard question 3:**

3A: Copy screenshot or picture of your plot below.

3B. Answer:

3C. Answer:

### Bonus question:

If you complete a bonus question (optional), please answer the questions of the assignment below.