

PRE-EXPERIMENT CHECKLIST

participant number:

- ☐ Print Documents (this checklist and evaluation form, consent form, CTest, questionnaires, expl. of functions, datasheet, task description)
- ☐ Write the participant number on all prints
- ☐ Create/open a participant folder on the usb stick
- ☐ Update the info.txt file on the SD card

- ☐ Turn on mock-pit lights
- ☐ Turn on ceiling lights (not the spots)
- ☐ Put your phone in flight mode and silent
- ☐ Empty floor from experiment equipment
- ☐ Put in new batteries into the LEGO robot
- ☐ Set the “shut down” time of the robot to “never”
- ☐ Connect and reset the robot
- ☐ Prepare programming windows
- ☐ Load the “checkcompile” program onto the robot and have it open on screen 1
- ☐ Set keyboard language to EN
- ☐ Make sure that checkcompile is visible on screen 1
- ☐ Turn off screen 1
- ☐ Load presentation with instructions on 2nd screen

- ☐ Put the prepared SD card into the keylogger
- ☐ Load keylogger program onto Arduino, open serial monitor, check if it works
- ☐ Synchronize stopwatch, programming computer, keylogger, and video rec. computer
- ☐ Make voice instructions available (open folder)
- ☐ Set volume to max

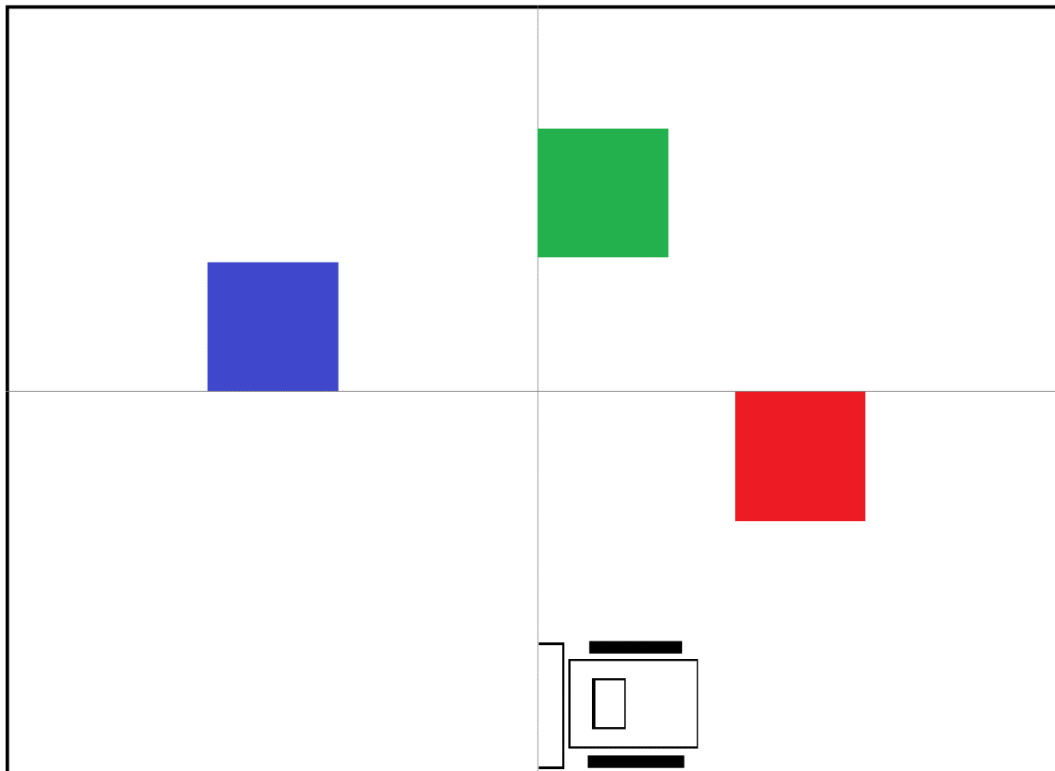
- ☐ Get fresh drinking water
- ☐ Put up “experiment in progress” sign on the door
- ☐ Close off the experimenter’s space with cardboard walls

After participant has signed the consent form

- ☐ Start screen capture
- ☐ Start video recording

Evaluation 1

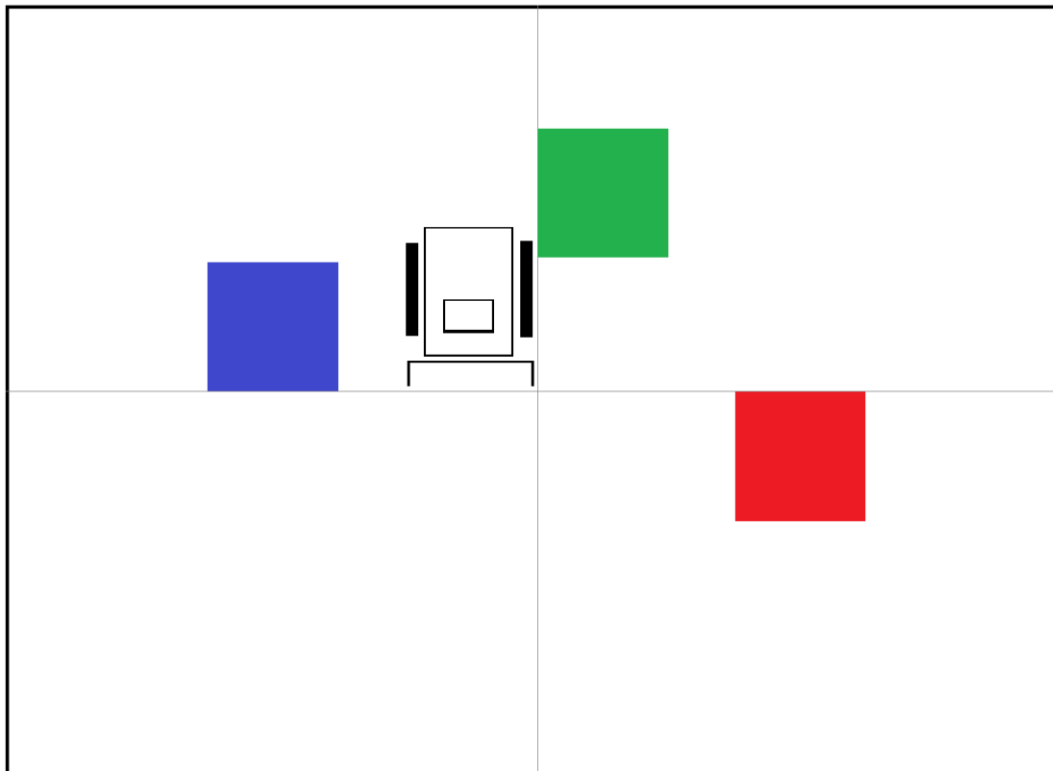
participant number:



<input type="checkbox"/> Code compiled	<input type="checkbox"/> Robot fell off cardboard	
<input type="checkbox"/> Robot moved	<input type="checkbox"/> Robot stopped	
<input type="checkbox"/> Robot touched a cube	<input type="checkbox"/> Program manually aborted	
<input type="checkbox"/> 1 st cube removed Time:	<input type="checkbox"/> t bonus	<input type="checkbox"/> t penalty
<input type="checkbox"/> 2 nd cube removed Time:	<input type="checkbox"/> t bonus	<input type="checkbox"/> t penalty
<input type="checkbox"/> 3 rd cube removed Time:	<input type="checkbox"/> t bonus	<input type="checkbox"/> t penalty

Overall time including bonus and penalties: _____

Notes:



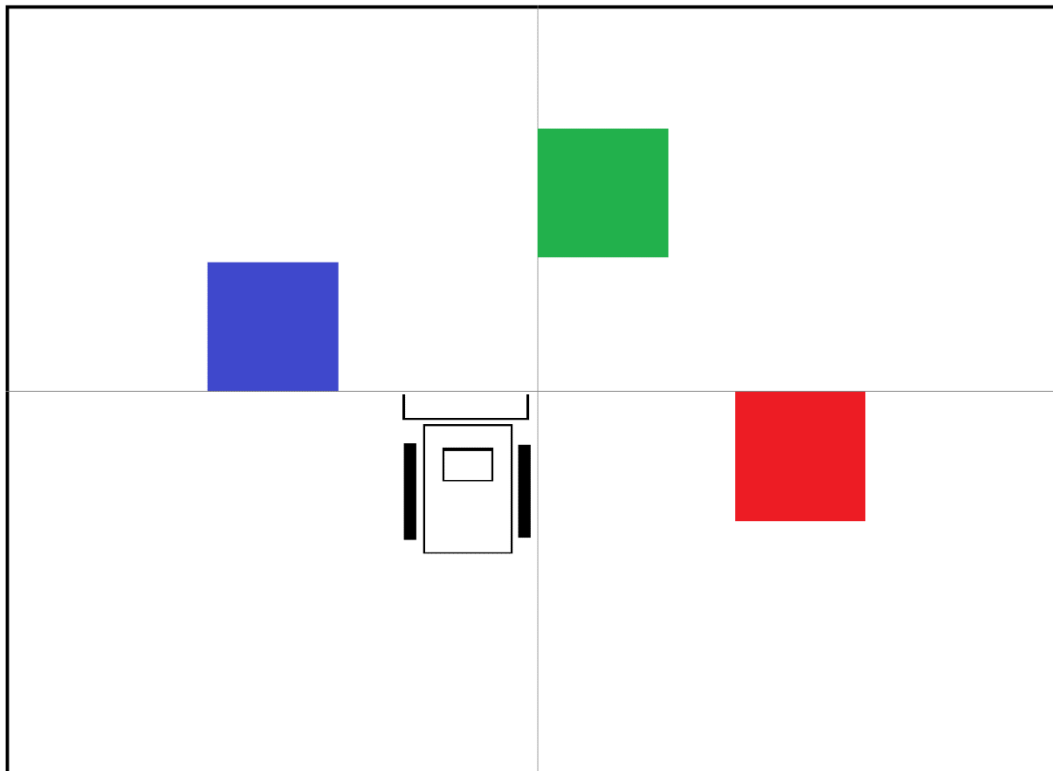
<input type="checkbox"/> Code compiled	<input type="checkbox"/> Robot fell off cardboard	
<input type="checkbox"/> Robot moved	<input type="checkbox"/> Robot stopped	
<input type="checkbox"/> Robot touched a cube	<input type="checkbox"/> Program manually aborted	
<input type="checkbox"/> 1 st cube removed Time:	<input type="checkbox"/> t bonus	<input type="checkbox"/> t penalty
<input type="checkbox"/> 2 nd cube removed Time:	<input type="checkbox"/> t bonus	<input type="checkbox"/> t penalty
<input type="checkbox"/> 3 rd cube removed Time:	<input type="checkbox"/> t bonus	<input type="checkbox"/> t penalty

Overall time including bonus and penalties: _____

Notes:

Evaluation 3

participant number: _____



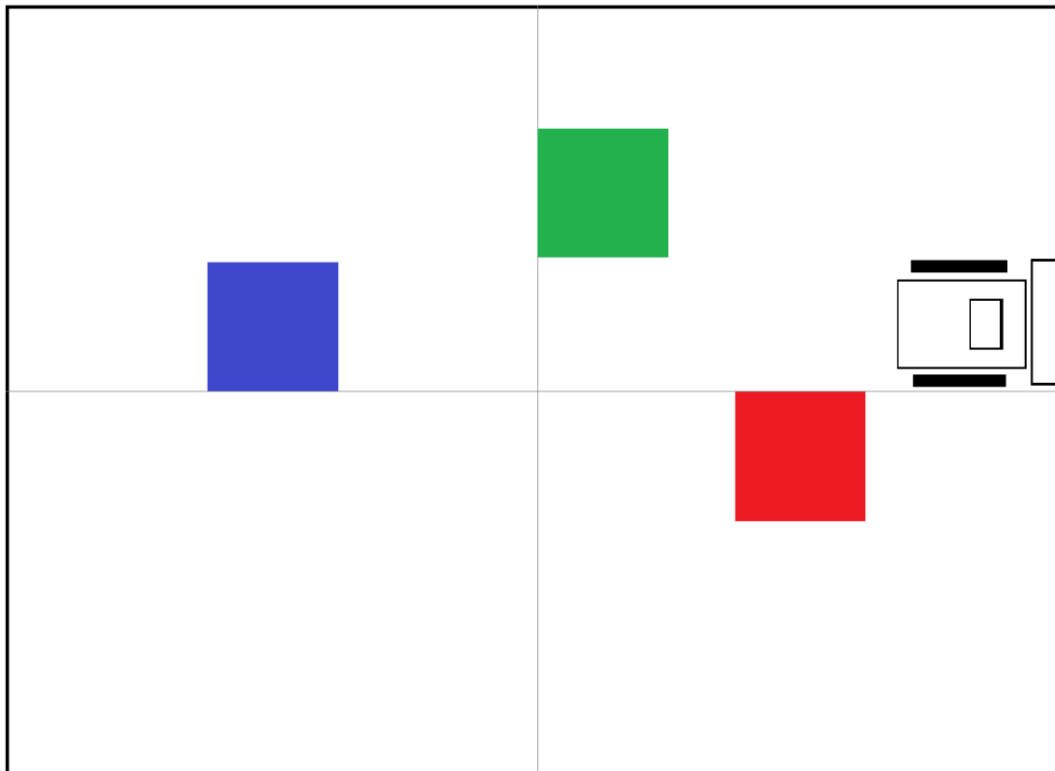
<input type="checkbox"/> Code compiled	<input type="checkbox"/> Robot fell off cardboard	
<input type="checkbox"/> Robot moved	<input type="checkbox"/> Robot stopped	
<input type="checkbox"/> Robot touched a cube	<input type="checkbox"/> Program manually aborted	
<input type="checkbox"/> 1 st cube removed Time:	<input type="checkbox"/> t bonus	<input type="checkbox"/> t penalty
<input type="checkbox"/> 2 nd cube removed Time:	<input type="checkbox"/> t bonus	<input type="checkbox"/> t penalty
<input type="checkbox"/> 3 rd cube removed Time:	<input type="checkbox"/> t bonus	<input type="checkbox"/> t penalty

Overall time including bonus and penalties: _____

Notes:

Evaluation 4

participant number:



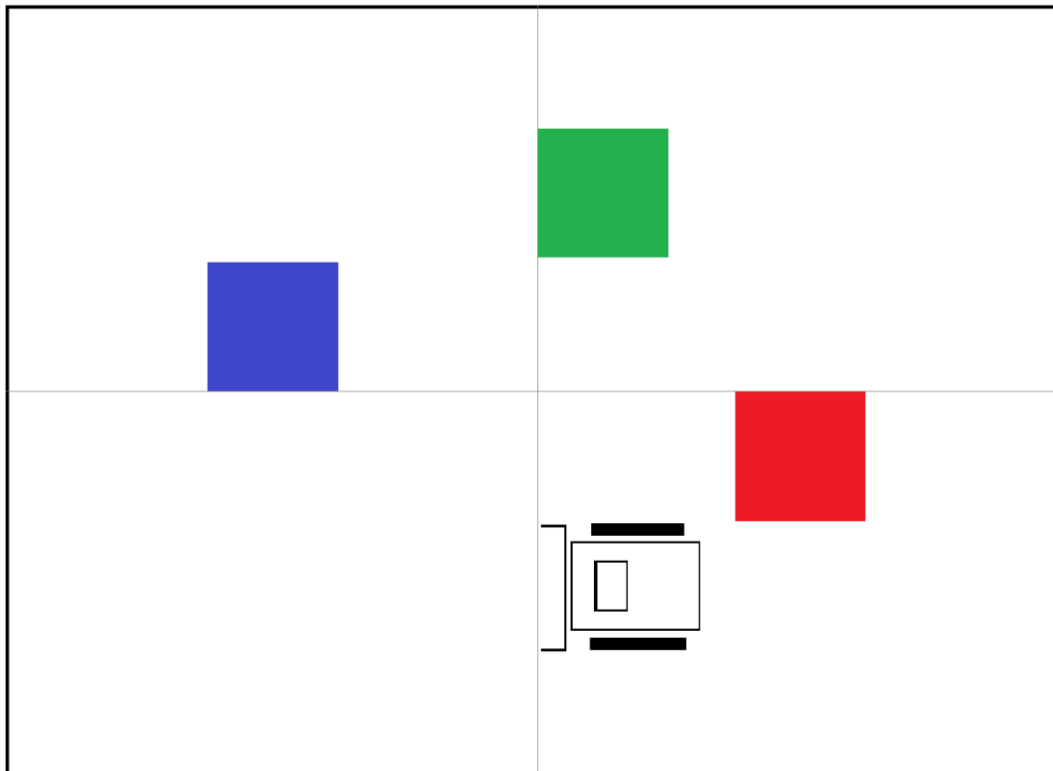
<input type="checkbox"/> Code compiled	<input type="checkbox"/> Robot fell off cardboard	
<input type="checkbox"/> Robot moved	<input type="checkbox"/> Robot stopped	
<input type="checkbox"/> Robot touched a cube	<input type="checkbox"/> Program manually aborted	
<input type="checkbox"/> 1 st cube removed Time:	<input type="checkbox"/> t bonus	<input type="checkbox"/> t penalty
<input type="checkbox"/> 2 nd cube removed Time:	<input type="checkbox"/> t bonus	<input type="checkbox"/> t penalty
<input type="checkbox"/> 3 rd cube removed Time:	<input type="checkbox"/> t bonus	<input type="checkbox"/> t penalty

Overall time including bonus and penalties: _____

Notes:

Evaluation 5

participant number:



<input type="checkbox"/> Code compiled	<input type="checkbox"/> Robot fell off cardboard	
<input type="checkbox"/> Robot moved	<input type="checkbox"/> Robot stopped	
<input type="checkbox"/> Robot touched a cube	<input type="checkbox"/> Program manually aborted	
<input type="checkbox"/> 1 st cube removed Time:	<input type="checkbox"/> t bonus	<input type="checkbox"/> t penalty
<input type="checkbox"/> 2 nd cube removed Time:	<input type="checkbox"/> t bonus	<input type="checkbox"/> t penalty
<input type="checkbox"/> 3 rd cube removed Time:	<input type="checkbox"/> t bonus	<input type="checkbox"/> t penalty

Overall time including bonus and penalties: _____

Notes:

AFTER EXPERIMENT CHECKLIST

participant number:

- ☐ Stop and save videos
- ☐ All papers sorted and stored in the folder?
- ☐ Retrieve data from the keylogger SD card
- ☐ Stop and save screen capture

END OF DAY CHECKLIST

Date:

Number of participants today:

- ☐ Scan questionnaires and checklists and collect in participant digital folder
- ☐ Add the data to the existing data analysis and see how it fits
- ☐ Make a copy of the data onto a separate hard drive and store the hard drive somewhere else