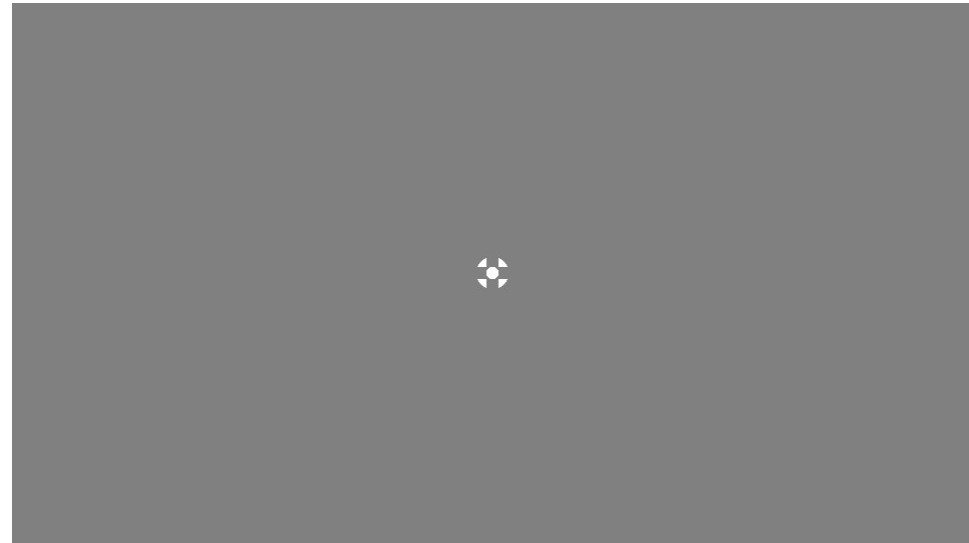


Overview: Active

- You will repeatedly have to choose between two urns
- The urns contain balls that have a value written on them
- In each trial, you can first sample from the urns and see drawn balls, which are then being returned to their urn
- When you have a good idea about which urn contains the better balls, you can make a final choice between the urns
- In the final choice, you draw a ball and the value associated with it is being saved
- At the end of the task, there will be a random selection between all your saved values: The result of the random selection will be paid to you in Euros.

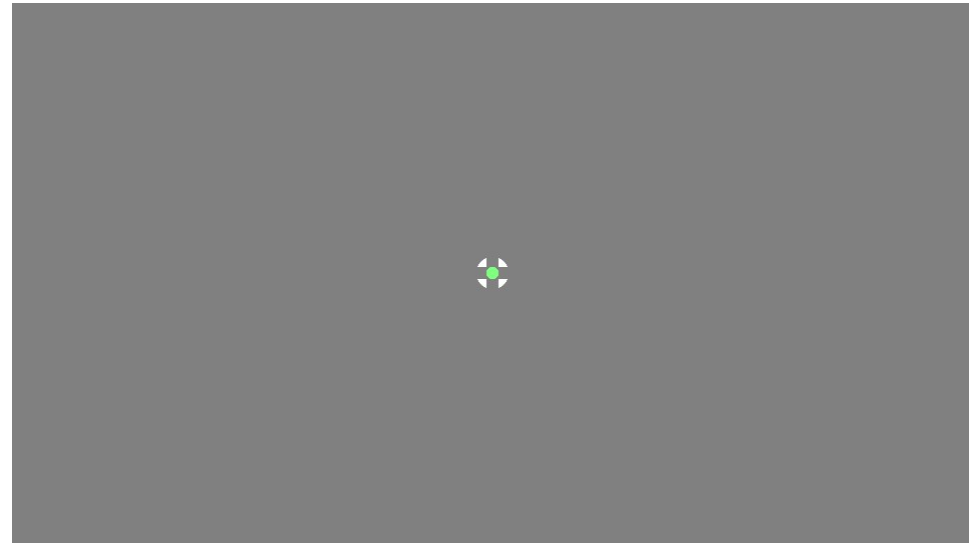
What does the screen look like

- A central fixation stimulus marks where you should fixate your gaze
- The urns are invisible to the left and right of the fixation stimulus



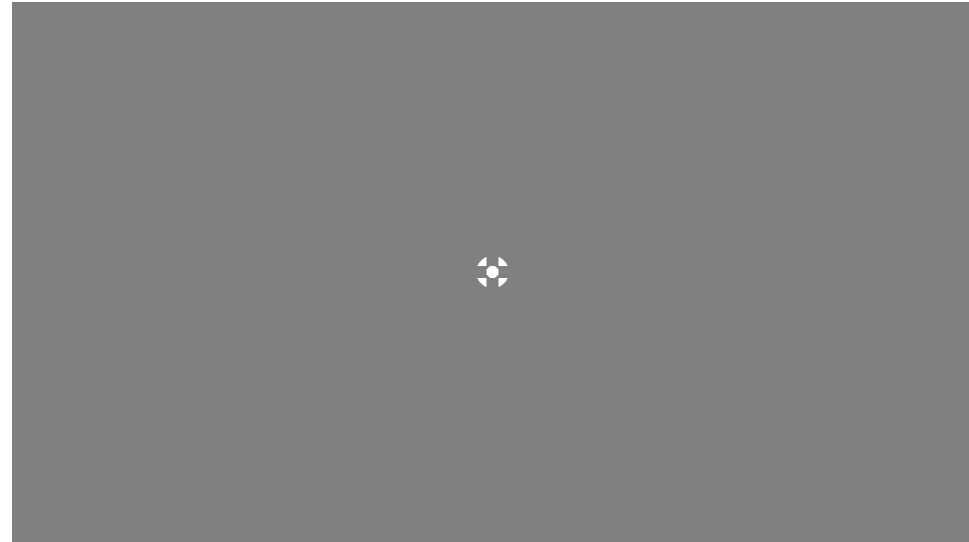
The fixation stimulus color: Green

- Each trial starts with a green fixation stimulus
- This tells you “there are new urns to be considered”

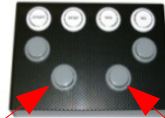


The fixation stimulus color: White

- A white fixation stimulus asks you to choose either the left or the right urn by pressing the left or the right button respectively



Which buttons to use?

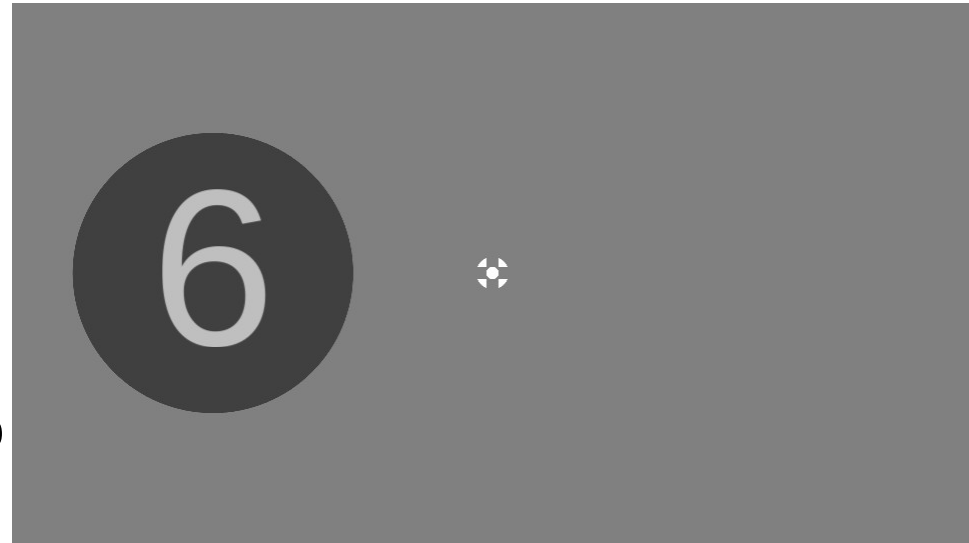


Button for
selection the left
urn

Button for
selection the right
urn

Drawing from the urns

- After you pressed the left or the right button, a ball is drawn from the urn and shown to you
- You can repeat exploring the urns like this until a maximum of 30 samples
- This helps you to get an idea, which of the urns yields higher values
- Note, that the balls are being returned to their respective urn: You do not keep them



Making a final choice

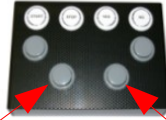
- Once you have sampled from the urns for some time, you might want to make a final choice between the urns
- For that, press the third button above the “right” button
- This will “trigger” a final choice



Button for
triggering a
final choice

Making a final choice

- After triggering the final choice, you can use the normal left and right keys for making the final choice

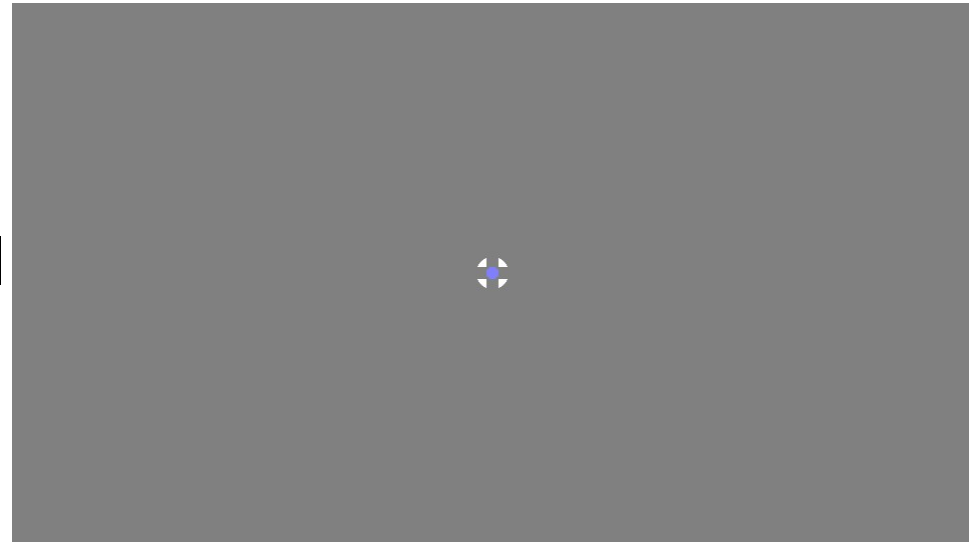


Button for
selection the left
urn

Button for
selection the right
urn

The fixation stimulus color: Blue

- Once you have initiated a final choice, the fixation stimulus turns blue
- This means that the next action will be the final choice of this trial
- After a final choice, you keep the ball that was drawn and add it to your collection of values

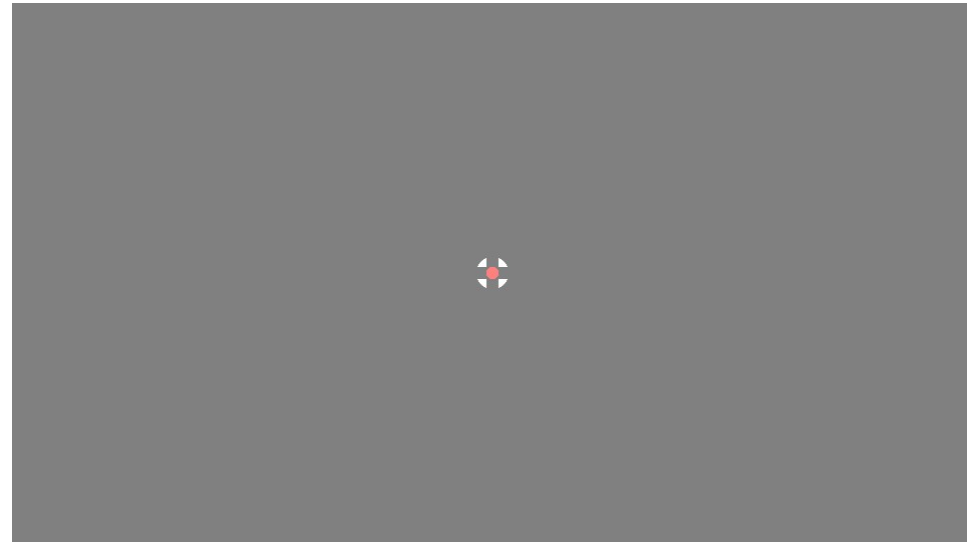


Goal of the task

- A final choice will let you keep the drawn ball with its associated value
- At the end of the task, we will make a random draw among all your collected values and you get the drawn value in Euros
- Overall, there will be 100 trials, each ending with a final choice
- Every 20 trials, you get some feedback about which value you have currently collected most often
- Of course, this value is most likely to be your final reward in Euros ... however it could be (with less probability) any other of your collected values

The fixation stimulus color: Red

- If the fixation stimulus is red, you made an error. This happens if:
 - You wait for too long before making an action
 - You try to make a final choice without having sampled from the urns
 - If you do not fixate your gaze on the fixation stimulus
- After an error (red fixation stimulus), a new trial is started and the old one is discarded



Remember the meaning of the colors

- Green = New trial, there are new urns provided
- Blue = Next action will be a final choice
- Red = Error, you performed a forbidden behavior

Overview: Passive

- After you have performed the active task, as described above, there will be one more “passive” task
- The passive task is just as the active task with the exception, that you do not select the left or right urn yourself anymore
- Instead, you observe how the computer draws from the left or right urn
- However, when the fixation stimulus turns blue to mark a final choice, you have to become active again
- Even in the passive task, the final choices have to be made by yourself

Any questions?

- You are now starting with the active task
- You are allowed to do some practice trials