

Identification Task

The aim of this study is to collect data about how people use spatial prepositions.

Spatial prepositions are words or phrases like 'in', 'on', 'against', 'over', 'under', 'above', 'below' etc..

In general they specify a (spatial) relationship between two objects e.g. 'the bike **to the left of** the house', 'the ball **on** the table' etc..

Some important terminology:

The '**figure**' is the object being described while the '**ground**' is an object which is used as a point of reference or landmark. For example, in "the bike to the left of the house", the *figure* is 'the bike' and the *ground* is 'the house'.

In general the structure of such phrases is: [Figure]+[Preposition]+[Ground].

Instructions

We are interested in collecting examples of how people choose to describe the locations of objects to a robot.

In this task an object will be highlighted in green.

All you have to do is describe the location of the object so that the **robot** in the scene would **pick up the correct object in order to bring it to you**.

In the room there are **multiple objects of the same** type e.g. there are 3 pencils. Make sure your description is such that the **robot can identify the exact object**.

Provide descriptions by typing and pressing enter.

Please provide descriptions using the format: [Figure]+[Preposition]+[Ground]. For example, 'the cup on the table'.

Please use one of the following prepositions:

in, inside, on, against, over, under, above, below, to the right of, to the left of, in front of, behind, near, at

Avoid descriptions of what the object looks like such as the 'the **big** cup on the table'..

Once you have provided a description of an object a new object will be selected. If it is unclear which object is being highlighted have a look around to find it. To change the object just press the delete key.

There is a timer displayed on the top left of the screen. Please continue giving descriptions for **10 minutes**.

Interface

- Arrow keys = Move around
- Mouse movement = Look around
- Normal keyboard interface for typing descriptions. Enter Key confirms the input.
- DEL selects a new object
- ESC exits the game