



Children
 Developing awareness
 There are robots and AI-controlled devices in their everyday life.
 Recognize differences
 Between humans and AI controlled devices
 Clarify differences
 Children can name the differences between AI and them

Children

For robots and other technological devices
 Understand the enthusiasm of children
 Create play and educational activities to differentiate between humans and machines.
 Create educational activities
 Differences between robots or AI-controlled devices and humans.
 Recognize and clarify differences
 They themselves use many AI-controlled devices.
 Raise awareness

Variation
 1. Put on some music. When you stop the music, each child takes a picture and puts it in the corresponding box.
 2. Set up multiple boxes to offer more opportunities for differentiation.
 3. Make a grid on the floor using chalk or masking tape, etc. Use a robot (beebot, bluebot, etc.) to sort out the pictures with it.

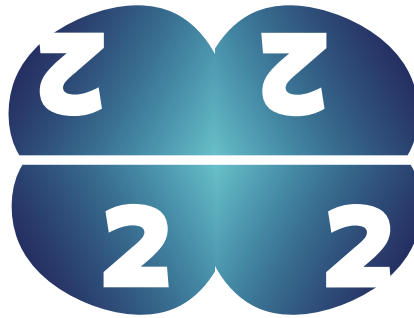
Implementation
 One child at a time chooses a picture and has to sort it into the correct box. Continue until all of the pictures on the floor are sorted. Discuss with the children why you put which picture card in which box. This can be done during the activity or afterwards.

Preparation
 First place all the pictures face down on the floor. Have two cardboard boxes ready. Label the boxes with the pictures, one box with a picture of animals and one box with a picture of robots. Place the boxes in opposite corners of the room. The room is now ready for playing.

Materials
 Images
 Animals, Tools, Humans, technical devices, vacuum cleaner, smartphone, etc.
2 Boxes (or more)

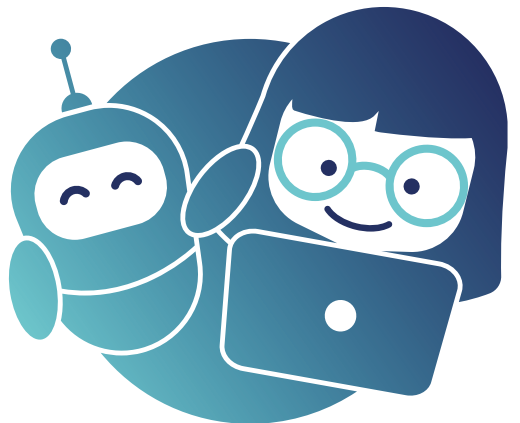
Recognizing robots

Exercise Level



Pedagogical professionals

Goals



I'm not a Robot

Tips for in-depths study

Literature



„Hello Ruby – Wenn Roboter zur Schule gehen“
 by Linda Luikas



„Hello Ruby – Journey inside the computer“
 by Linda Luikas

Imprint

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Toolbox #2 Who can recognize a robot?

Examples of robots in everyday life

- Refrigerators
- cars
- hoovers
- computers
- smartphones
- video game consoles
- and much more

Robots and AI-controlled devices are already part of our daily lives. Children of all ages encounter them in their everyday lives all the time and may not even realize that they are using a robot or an AI-controlled device. Often, even we adults are not aware of how much AI is hidden in our everyday objects. But we do know that a human has to switch on the robot or AI-controlled device in order for it to work - although sometimes timers are used and then the robots start automatically.

What we know

Introduction

What is this about?

How do children recognize a robot? What do children identify as something technical? Children learn through the games and with the materials in the toolbox.

How they can recognize robots and AI-controlled devices in their everyday life. The educators support the children in thinking about the differences between robots/AI-controlled devices and humans.

Children's point of view

Questions from Children

- Do you recognize a robot when you see one?
- Would a robot recognize you?
- Where does the robot live?
- What is a robot?
- What does a robot look like? Does a robot have legs, arms, hands, etc.?
- What can a robot do?
- How can a robot move?

The children take photos alone of all the robots they find. They then look at the photos together in the group and discuss what a robot is.

Variation

- Do you recognize a robot when you see one?
- Would a robot recognize you?
- Where does the robot live?
- What is a robot?
- What does a robot look like? Does a robot have legs, arms, hands, etc.?
- What can a robot do?
- How can a robot move?

During the walk and the photographing, discuss the corresponding questions with the children

Go on a robot treasure hunt with the children. Search and find robots with the children in the kindergarten or during a walk in the neighborhood. Everything that appears to the children as a robot is photographed.

Implementation

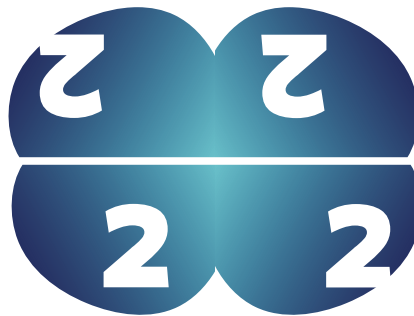
- 1 Digital camera or more
- Smartphone, tablet

Materials

Robot treasure hunt

Exercise

Level ● ●



Exercise

Level ● ●

Humans turn into robots

Materials

- Someone who would like to play a robot** cleaner, smartphone, etc
- Images** Animals, Tools, Humans, technical devices, vacuum
- 2 Boxes (or more)**
- Chalk or masking tape** to make a grid on the floor

Preparation

Make a grid on the floor using chalk, masking tape etc. Place the pictures in the grid faced up. Label the boxes with the pictures, one box with a picture of animals and one box with a picture of robots. Place the boxes in opposite sides of the grid. The room is now ready for playing. Briefly discuss with the children and the adults why a robot needs commands.

Implementation

The children now program the "robot" by saying simple commands out loud. Simple commands could be: Pick up the picture! / Walk three steps! / Put the picture down

The first few times you play this game it might make sense the adult is playing the role of the robot to demonstrate how the robot only moves when it is coded. It is important that the adults really only do what the children tell them to do, i.e. really turn into robots. When the children understand the game the children can start coding each other. The aim is for the "robots" to sort the pictures in the correct boxes.

Variation

You can use command cards with symbols, commanding the robot.

Instruction

Print front and back on one sheet. (Turned over long side)

Fold

