**Face Characteristics - Get Expression**

**We work in Choregraphe 2.5.10.7 program**

When you run this behavior, the robot will track your face and tell you the expression it could detect on your face!

**How to do this project**

Step 1: Drag and drop the Sensing > Vision > Surroundings > Basic Awareness box onto the Flow Diagram panel.

Step 2: Connect its input to the diagram input.

Diagram

Description automatically generated

Step 3: Click on its parameter-button**parameter**button.

Step 4: Deselect all stimuli but the People Stimulus.

Graphical user interface, application

Description automatically generated

“The robot only tracks human faces, but no sounds, movements etc.”

Step 5: Drag and drop the Sensing > Human Understanding > Get Expression box onto the Flow Diagram panel.

Step 6: Connect its input to the Human Tracked output of the Basic Awareness box.

Graphical user interface

Description automatically generated with medium confidence

“The robot tries to identify the facial expression of the person in front of him.”

Step 7: Drag and drop the Programming > Logic > Switch Case box onto the Flow Diagram panel.

Step 8: Connect its input to the onStopped output of the Get Expression box.

Step 9: Remove all existing cases from the Switch Case box and add the cases “happy” , “surprised” , “angry” , “sad” and “neutral” .

Diagram

Description automatically generated

“When the robot detected a facial expression, the Switch Case box triggers the corresponding output.”

Step 10: Drag and drop 5 Speech > Creation > Animated Say boxes onto the Flow Diagram panel.

Step 11: Connect each of them with one of the grey outputs of the Switch Case box.

Diagram

Description automatically generated

Step 12: Double click on one of the Animated Say boxes and adjust the text in the Localized Text box as desired. Repeat this procedure for the other 4 Animated Say boxes.

“Depending on which Animated Say box was triggered by the Switch Case box, the robot says what is written in the inner Localized Text box.”