Bodacious Battle Bots

TECHINICAL

MANUAL

Technical Manual

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**Brief introduction to skills**

Dancing  
In this skill, Misty moves its arms and head. It also turns around and plays an audio.   
  
Detecting Objects  
Misty starts to walk while it detects objects. It plays and audio when the object is found.  
  
Text to Sound  
The robot gets a string and uses an API to speak the text in the desired language.  
  
Sound to Text  
The robot hears a phrase and uses an API to turn that spoken phrase into text in the desired language.  
  
Conversation  
Misty answers to some audio inputs based on previously coded interactions.

Translation  
The robot hears a phrase, transforms it to a string, then translates the string to another language, and then gets the string and transforms it in audio. All that using APIs.

Tic-tac-toe

Security Camera  
Misty starts streaming and it is possible to see the video streamed using a website.

Reaction  
Robot copies the arms movements that the person does, movements possible: arms up and down.

Face Recognition  
Misty recognizes faces and displays and audio each time it recognizes the person. The audio changes depending on the amount of interactions Misty had with that person.

Rock Paper Scissors  
The robot plays rock paper scissors.

Start with IP Address

**Special details of the skills code**

Dancing  
In this skill, Misty moves its arms, head. It also turns around and plays an audio.   
We set Misty’s face to admiration, that we got from the Misty SDK website. We created two functions to handle the arms movements. In these functions, we change the position of the arms. In the head movement function, Misty turns its head left and right by us just changing the second parameter of the MoveHead() function. In the turning function, Misty   
  
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