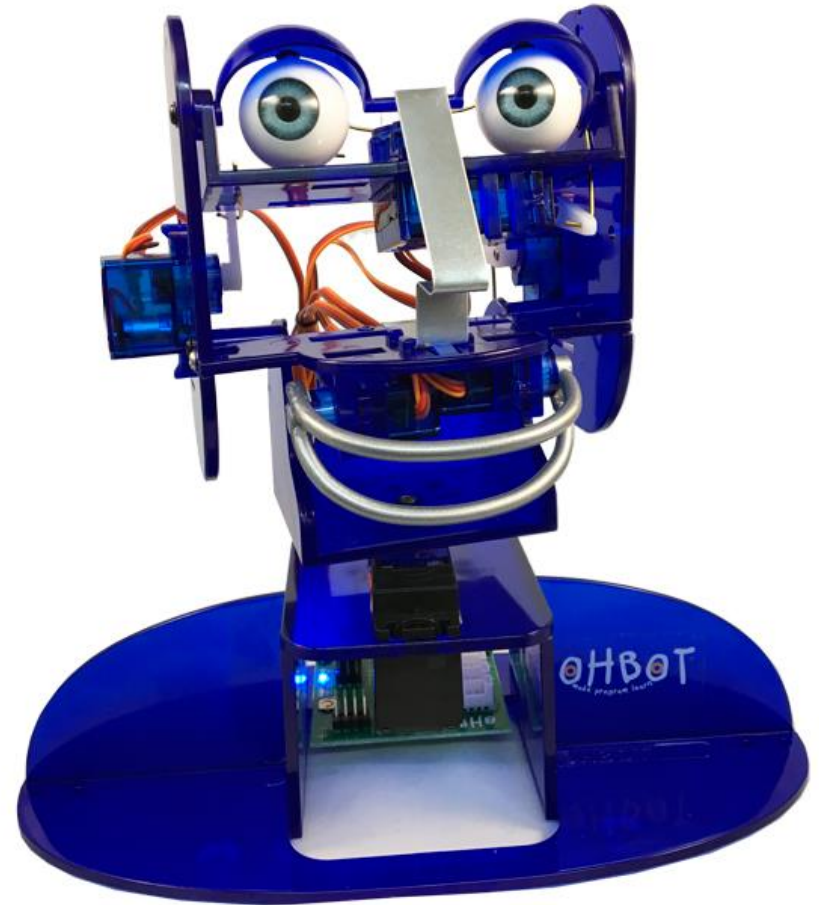
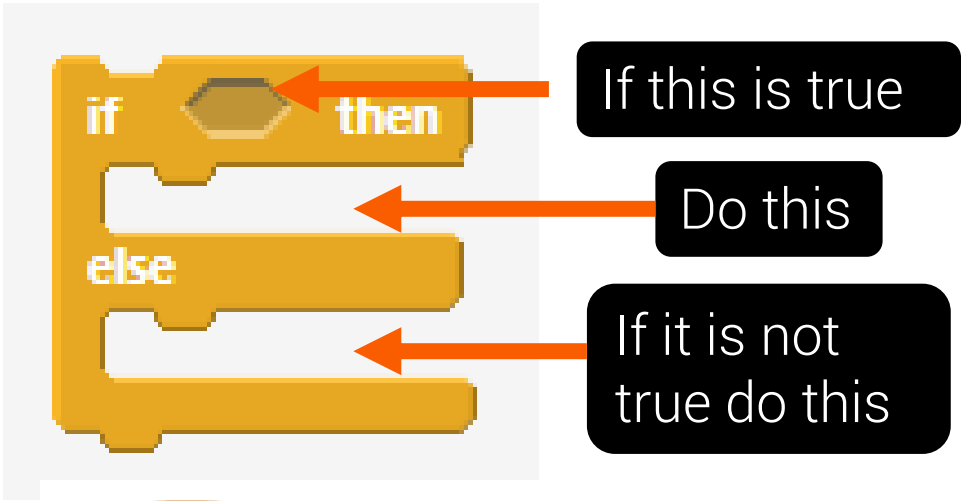


Lesson 3: If-then-else

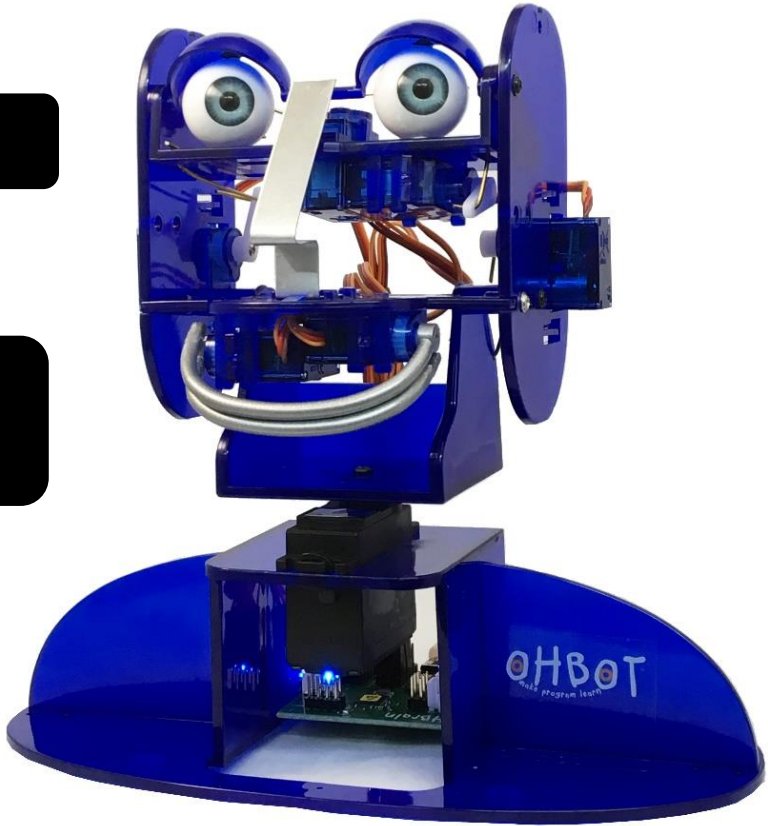
I can use an *If-then-else* instruction in my program



If-then-else is a conditional instruction



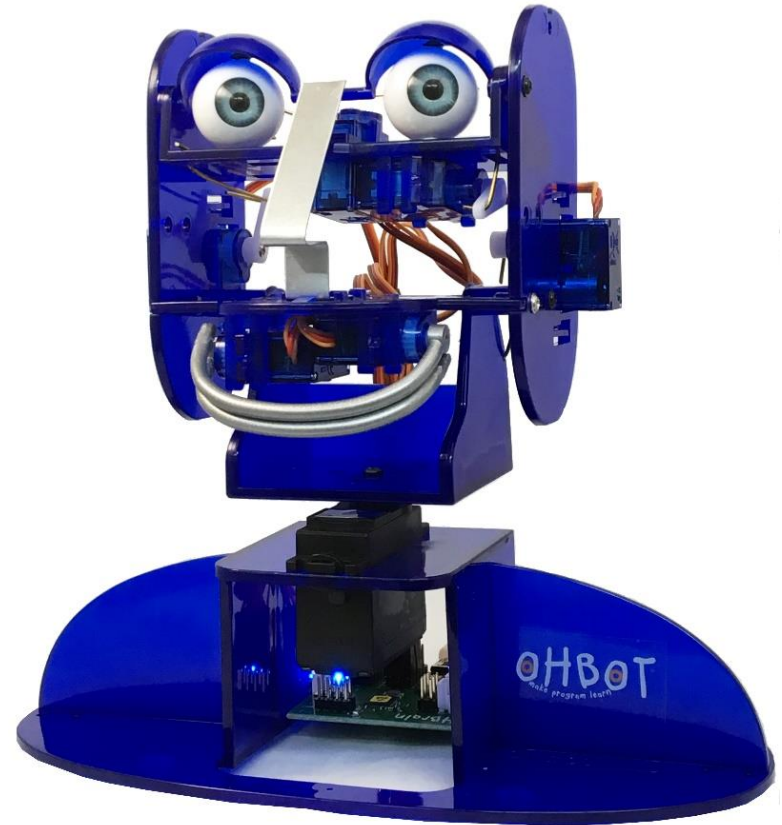
```
when clicked
if key space pressed? then
  say Hello! until done
else
  say Goodbye until done
```



Demonstration

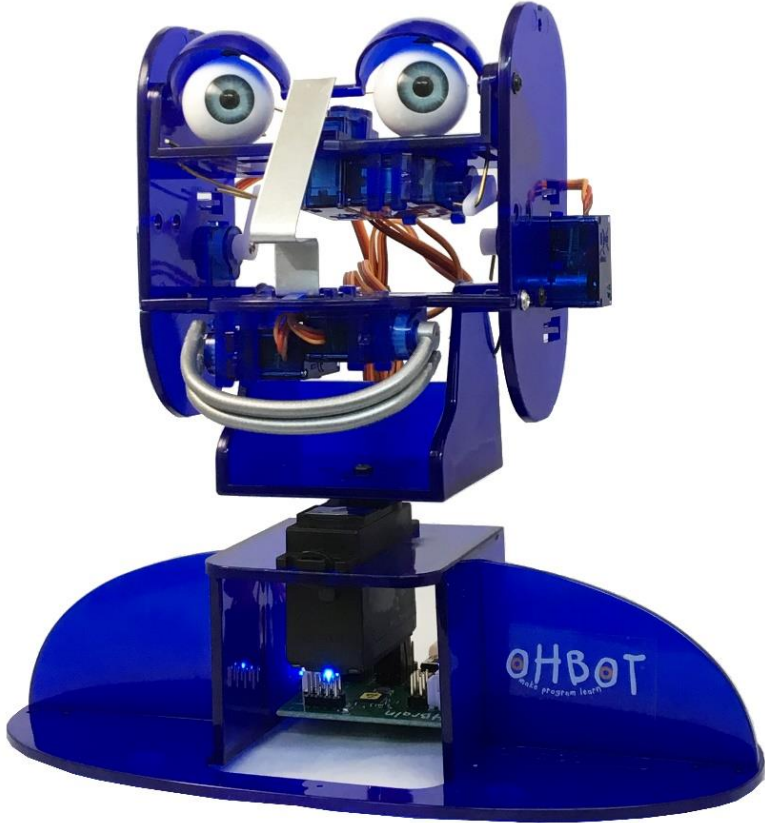
Ohbot can respond differently depending on what answer a human gives.

Example - Would you like to go to the school disco?



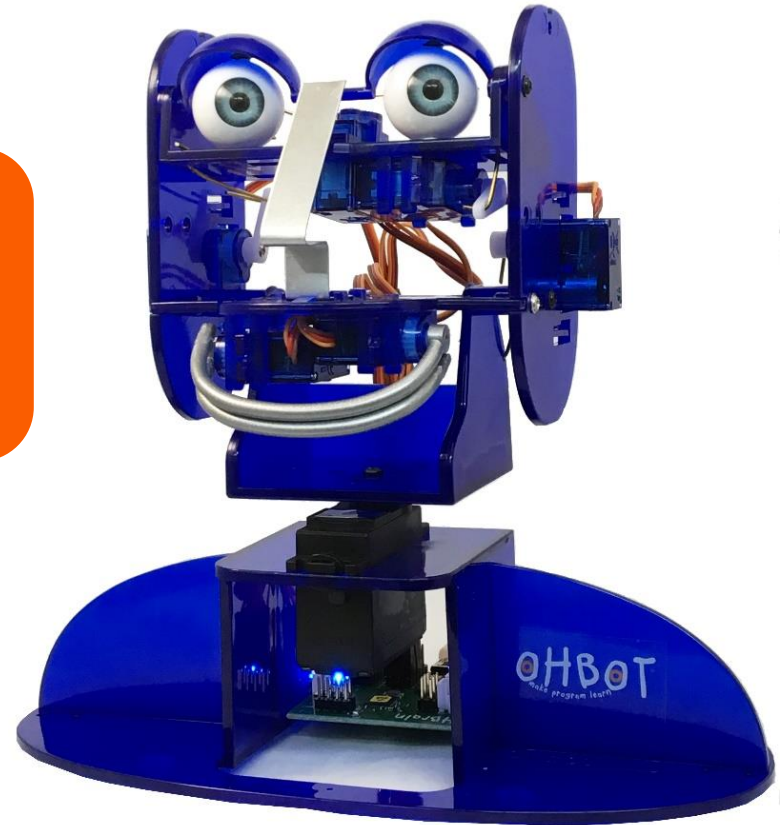
Demonstration

```
when clicked
ask Would you like to go to the disco? and wait
if answer = yes then
say Great, let us buy the ticket tomorrow. until done
else
say What a shame, I will have to go on my own until done
```



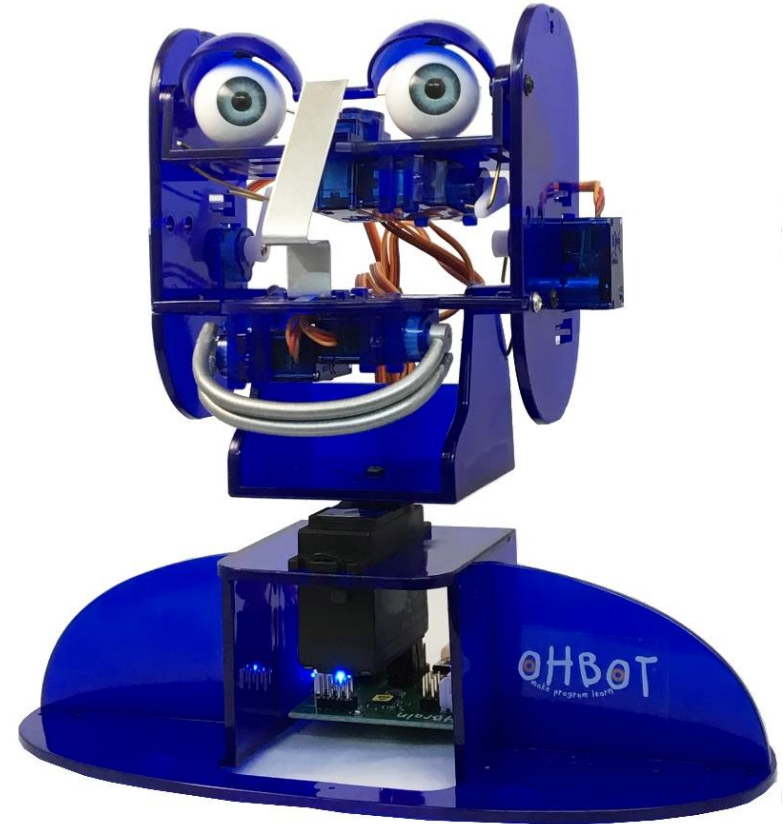
Activity 1

Can you write a program to make Ohbot ask a question with two possible answers and respond to how you answer?



Demonstration

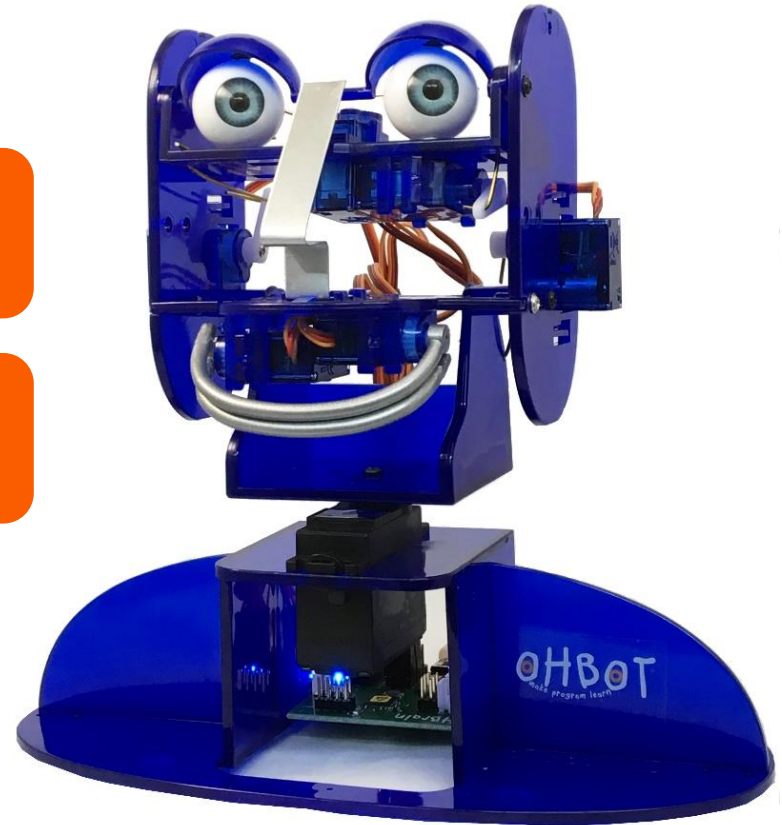
```
when clicked
ask Would you like to go to the disco? and wait
if answer = yes then
  play sound applause
  repeat 2
    set HeadNod to 10
    wait 1 secs
    set HeadNod to 0
    wait 1 secs
  set HeadNod to 5
  say Great, I will buy the tickets tomorrow. until done
else
  play sound breakino glass
  repeat 2
    set HeadTurn to 10
    wait 1 secs
    set HeadTurn to 0
    wait 1 secs
  set HeadTurn to 5
  say What a shame, I will have to go on my own until done
```



Activity 2

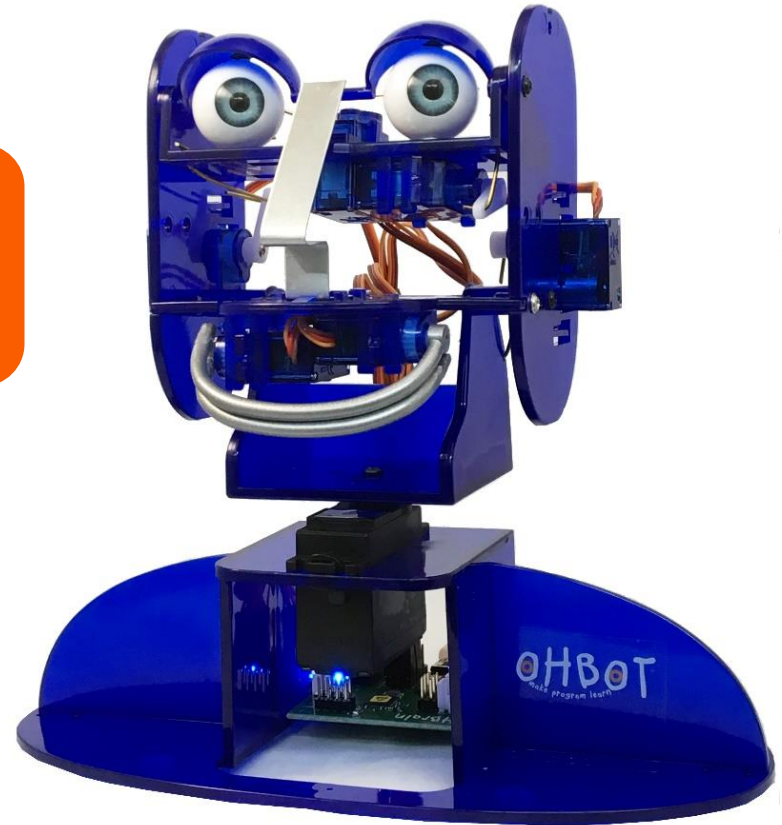
Can you add sound and motion to your ask and respond question?

File, Save As – 'Ask and wait if then else'



Extension

Can you write a program that asks two ask and respond questions one after the other?



Example

```

when clicked
ask Would you like me to tell you a joke? and wait
if answer = yes then
say Here it is then until done
wait 1 secs
else
say What a shame! until done
wait 1 secs
say Bye bye until done
stop all

say What do you get if you cross a robot with a tractor? until done
wait 1 secs
say a trans-farmer until done
say Ha ha ha ha! I'm laughing my head off! until done
wait 2 secs
ask Did you find the joke funny? and wait
if answer = yes then
say I am so pleased about that. until done
wait 1 secs
else
say You didn't! I think I need to have a word with your teacher! until done
wait 1 secs
say Bye bye until done
  
```

