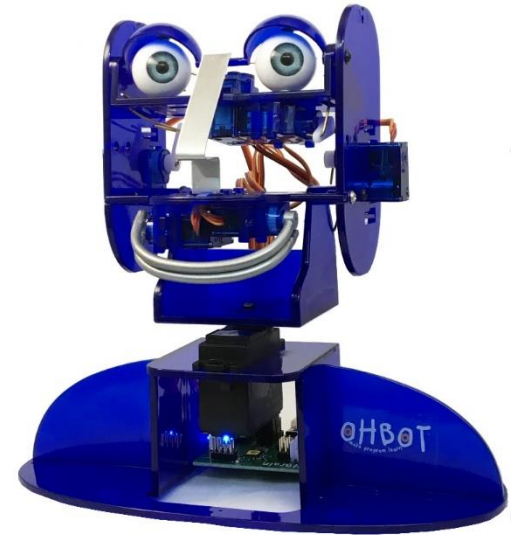


Lesson 5: Speak and move

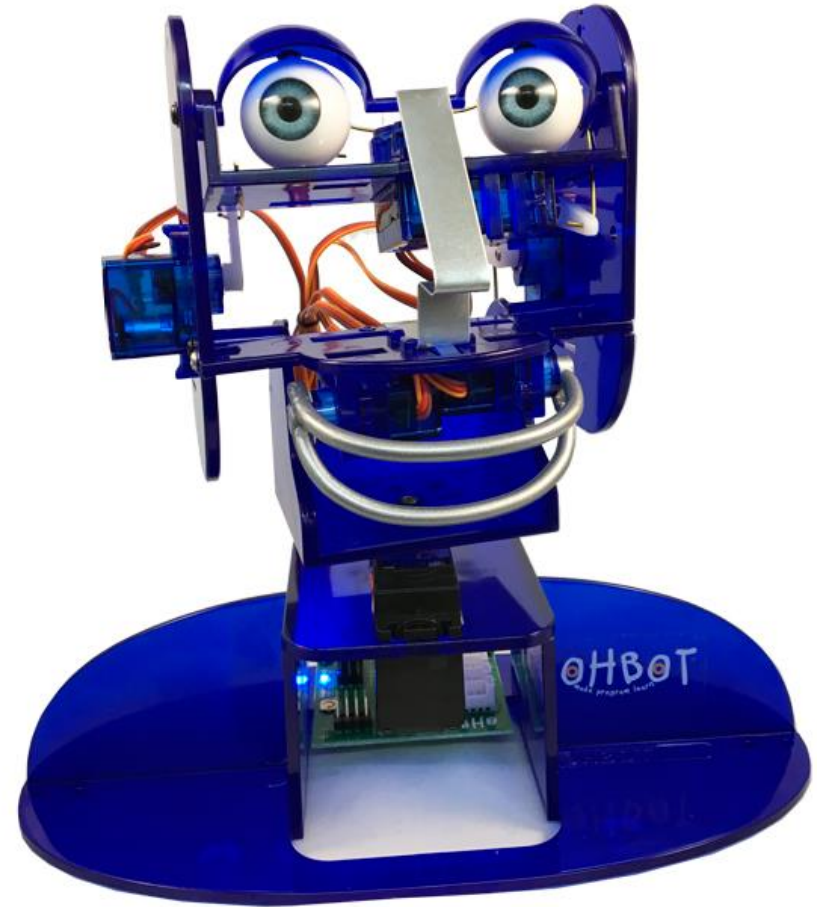
I can program a robot to speak



I am a very clever Robot.
I can talk!

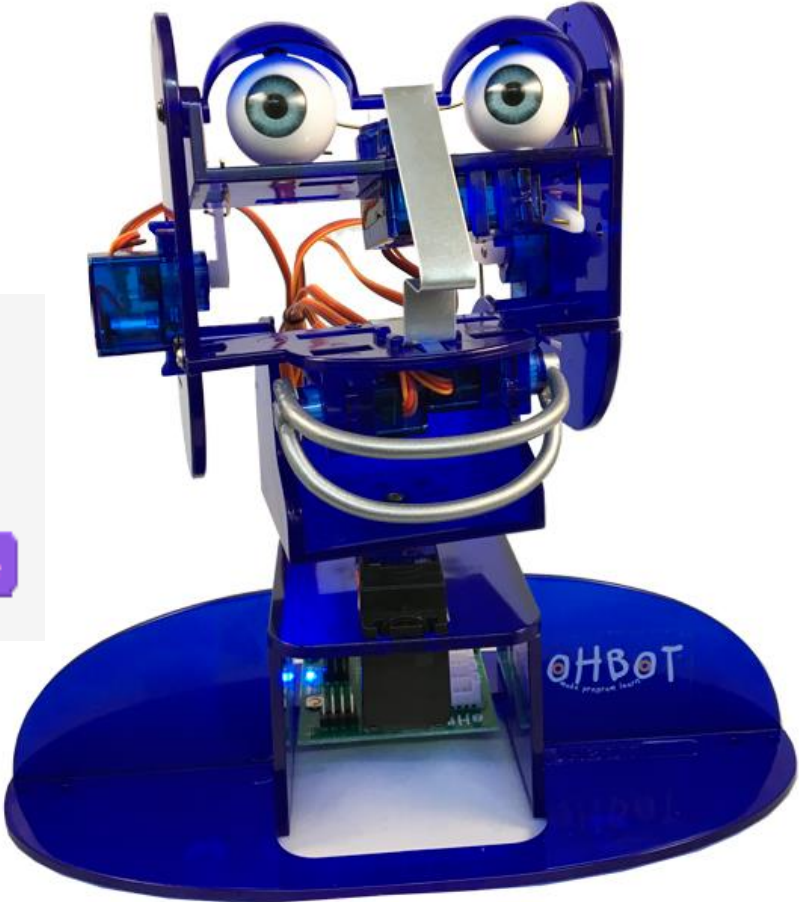
Together we will write some
code to make OhBot speak?

File, Save As – say name



Speak example

```
when clicked  
say Hello! How are you? until done  
wait 1 secs  
say I am a very clever robot because I know how to talk! until done
```

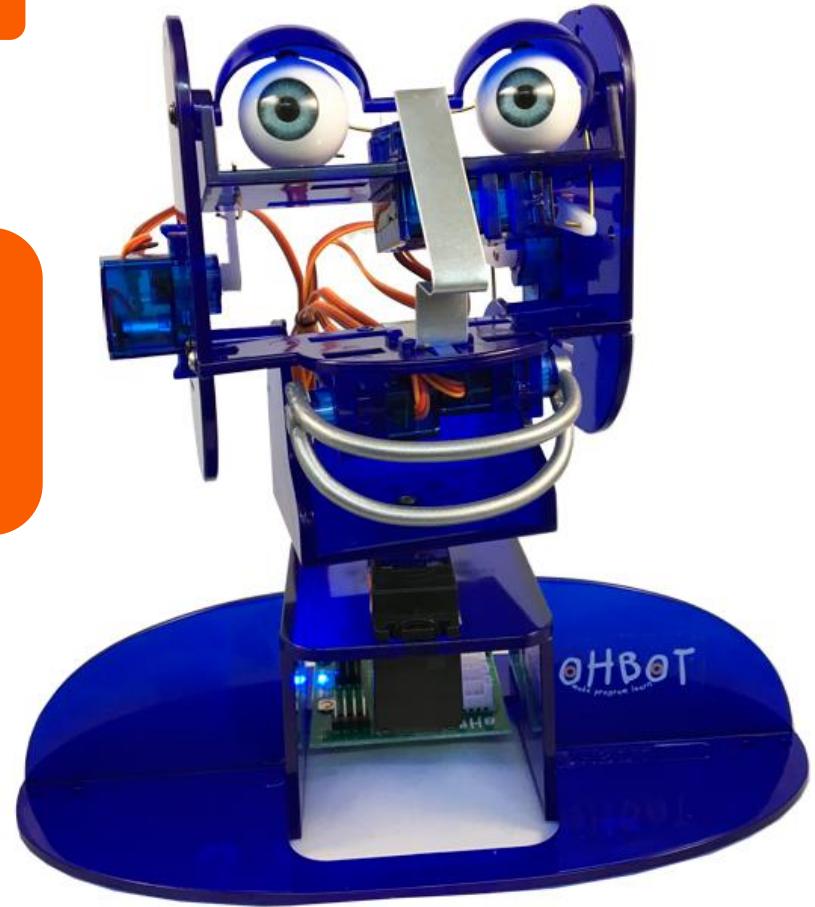


I am a very clever Robot. I can talk!

Activity 1

Can you write your own code to make Ohbot speak? Write a paragraph of code about yourself. Eg my name is..... etc.

File, Save As – all about me



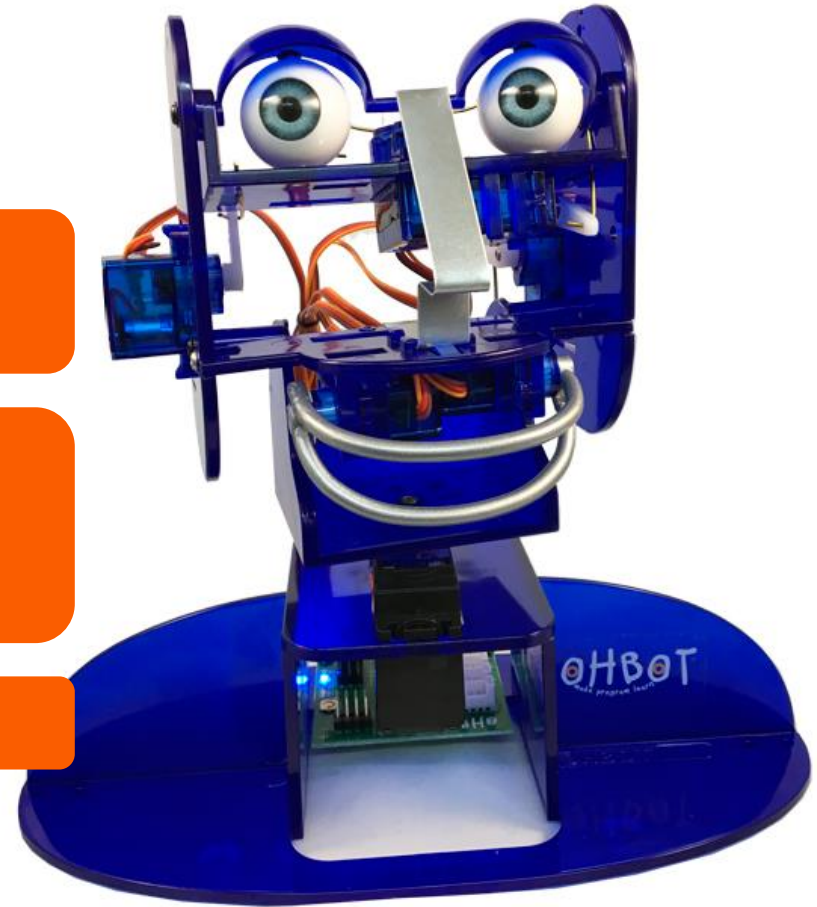
I can speak and move

Activity 2

Can you write a program to make Ohbot speak and move?

How many motors does Ohbot have? Can you show each one moving?

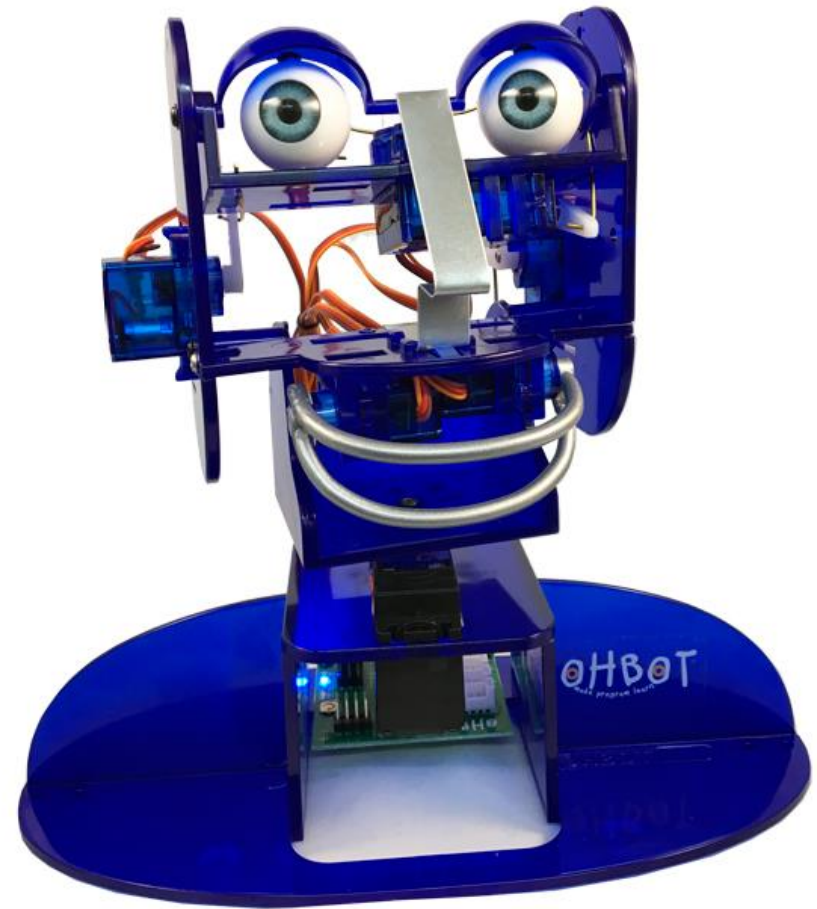
File, Save As – speak and move



Speak and move example

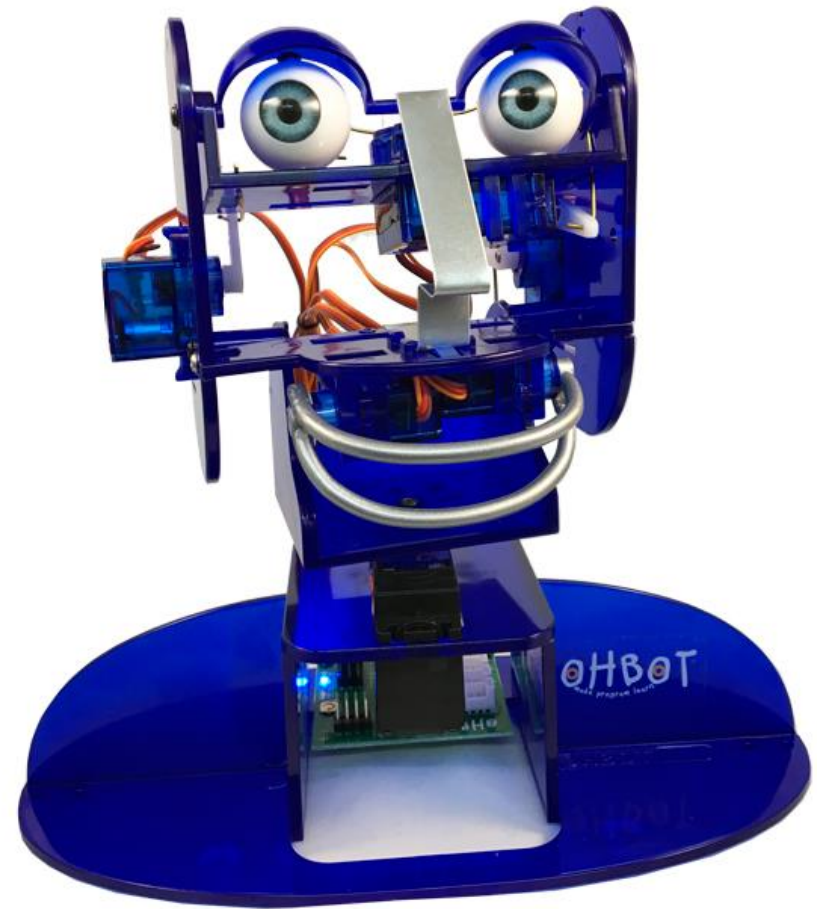
```

when clicked
say I have seven motors. Let me show you how I can move. until done
wait 2 secs
say I can move my eyes up and down like this.... until done
repeat 3
  set EyeTilt to 10
  wait 1 secs
  set EyeTilt to 0
  wait 1 secs
set EyeTilt to 5
say I can move my eyes left and right like this.... until done
repeat 3
  set EyeTurn to 10
  wait 1 secs
  set EyeTurn to 0
  wait 1 secs
set EyeTurn to 5
  
```



Extension

Can you write some code to make my mouth open and close while I am talking?



Speaking while mouth opens and closes example

```

when clicked
  say Hello!
  wait 1 secs
  say What is your name?
  wait 1 secs
  say How old are you?
  wait 1 secs
  say Do you have any brothers or sisters?
  wait 2 secs
  say What school do you go to?
  wait 2 secs
  set TopLip to 5
  set BottomLip to 5
  stop all
  
```

```

when clicked
  forever
    set TopLip to 10
    set BottomLip to 10
    wait .5 secs
    set TopLip to 0
    set BottomLip to 0
    wait .5 secs
    set TopLip to 5
    set BottomLip to 5
  
```

