

# Lesson 1: Oh Puppet

I can program a robot to sense the position of a mouse to set its position



## Demonstration

Together we will write a program which senses the position of the mouse and uses this to set the position of PicoH's head turn motor.



## Head turn example



## Activity 1

Can you write a program that allows the mouse to control PicoH's head turn and head nod motors?

*File, Save As - puppethead*



Example: Activity 1

```
when clicked
  forever
    set HeadTurn to mouse x
    set HeadNod to mouse y
```



## Activity 2

Can you add code to your program so that the mouse controls PicoH's pupils?

*File, Save As -  
puppetheadandpupils*



# Head and pupil example

```
when clicked
  forever
    set HeadTurn to mouse x
    set HeadNod to mouse y
    set EyeTurn both to mouse x
    set EyeTilt both to mouse y
```



### Activity 3

Can you experiment with using the mouse to control PicoH's mouth?





# Activity 3

```
when S key pressed
say Greetings ladies and gentlemen! until done

when clicked
forever
set TopLip to toplip
set BottomLip to bottomlip
```



## Extension

Can you add code to your program to make PicoH perform using speech and movement?

