## **To and Fro**

This program lets you control MiRo's speed (and direction) by using the touch sensors.

```
Program Start
set speed v to
repeat while v true v
    🔯 if
                                                                                         = 7 0 0
                                                find first ▼ occurrence of item
                           Body Touch sensors
                                                                               true 🔻
           set body_touch v to
                                  false ▼
             et body_touch v to
                                  true v
     🔯 if
                                                                                         = 7 ( 0
                                                 find first ▼ occurrence of item
                           Head Touch Sensors
                                                                                true v
           set head_touch v to
                                  false v
           set [head_touch v] to
                                   true v
             head_touch v
         set speed v to
                               speed ▼
                                               0.05
     else if body_touch
          set speed v to
                               speed v
                                               0.05
     Run code [print "New speed is ", speed]
     Set Forward Speed to speed v
                                       meters per second
```

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#### **BEST WAY TO DEMONSTRATE**

Simulator: Very effective Robot: Very effective

## **SENSORS & OUTPUTS USED**

Head and body touch sensors

### **DESCRIPTION**

This demonstration program allows you to control MiRo's speed by using the head and body touch sensors to increase or decrease the speed by 0.5 m/s. This means you can move MiRo forwards or backwards over the full range of speeds.

#### **EXTENSIONS**

- Add additional actions for MiRo to respond to, such as clapping to stop.
- ∀ Go into the Python editor and change the speed adjustments