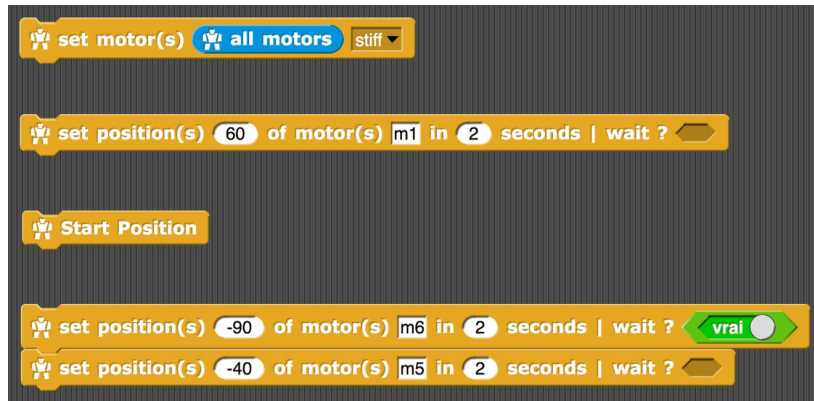



How to move the robot Ergo Jr with Snap!?

1. Click on the blocks, that are available in the script area (in the center of the screen), to make the robot moving. Test and observe.

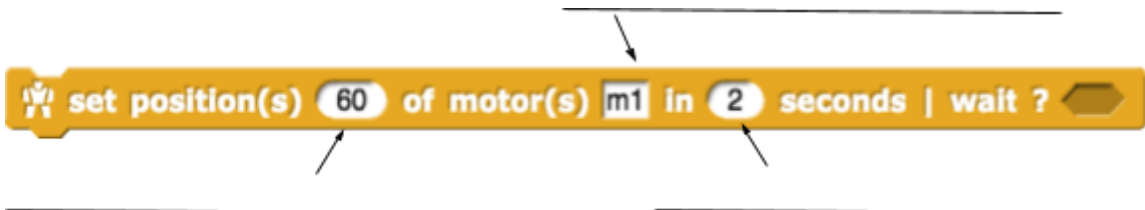


2. Now, let's try to understand how blocks work:

- a. Change the value of the block  by clicking on the block to validate the change. **For each value** (*stiff* and *compliant*), handle robot to see the difference. What do you notice ? _____

- b. For each value (*stiff* and *compliant*), try to move the robot by clicking on the other blocks Snap! that you have on the screen. What do you notice ? _____

- c . Change the blocks values (do not forget to click on the blocks to activate the instructions) to help you understand the meaning of the values and complete the diagram below :



- d. What is the name of each motor ? _____

```

set position(s) -90 of motor(s) m6 in 2 seconds | wait ?  vrai
set position(s) -40 of motor(s) m5 in 2 seconds | wait ? 

```

e. For this group of blocks :

What happens when you change the blocs true to false (click on the gray circle to change the value of the block) ? _____

You can copy / paste blocks and scripts :
 ⇒ Right-click ⇒ duplicate



To go further...

With the three new blocks below, create a program to flash the leds of the robots of the color of your choice :

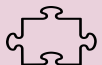
```

repeat 10
  wait 1 secs
  set color leds of motor(s) motor_name in off

```

Still finished?

Make sure to light the LEDs of each motor one after the other, very quickly and in different colors.



Robotic Challenge : Ergo Jr plays coconut shy :

- Poppy Ergo Jr with lampshade
- a light ball (ping-pong)
- Cups (cardboard or plastic) to make a tower

Objective: Control the position and speed of the robot's motors to throw the ball and drop the cups

