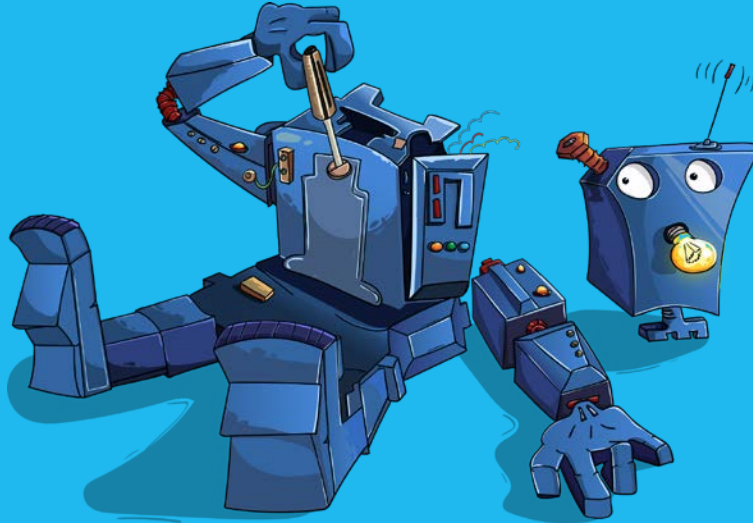




The Mind of a Robot (Part I)

Lesson 1

Tasks in this lesson

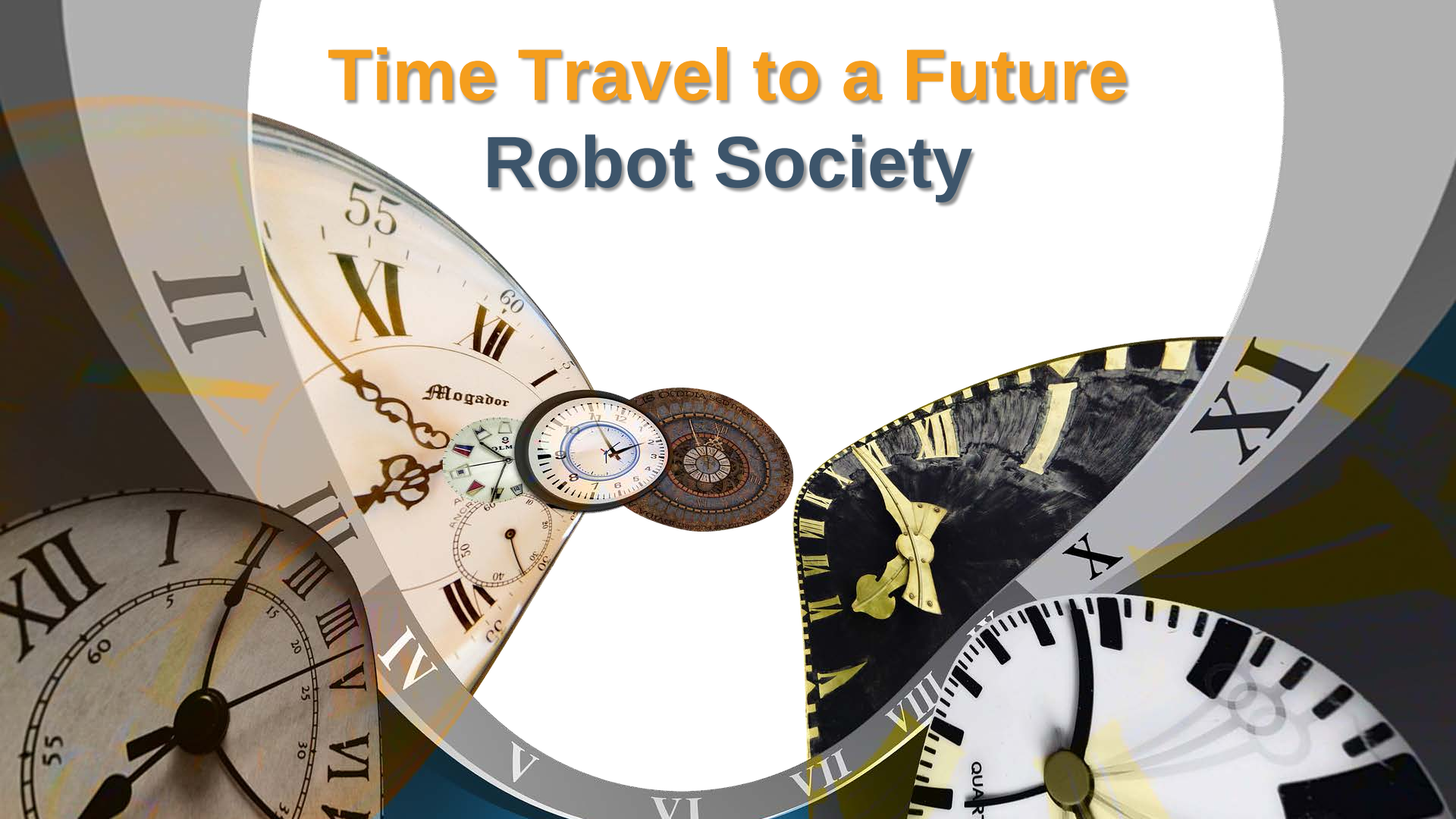
- ❑ Discuss:
 - *Could a robot think and feel?*
 - *How to make a robot “alive”?*
- ❑ Understand the meaning of the programming language



Warm Up



Time Travel to a Future Robot Society



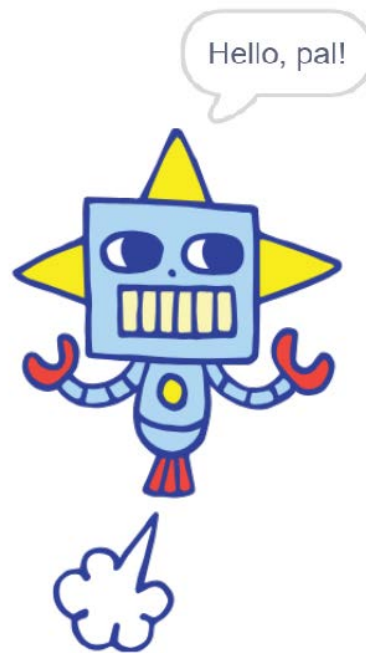


Phase 1



Task 1 Mini-debate

- Run the demo program first:
- **Question 1:**
Do you think you are chatting with a robot or human?

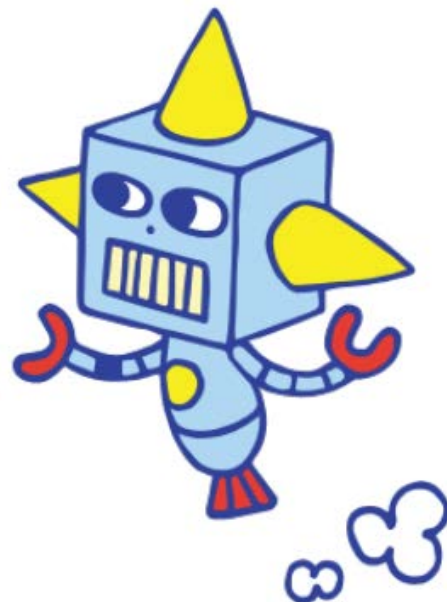


Task 1 Mini-debate

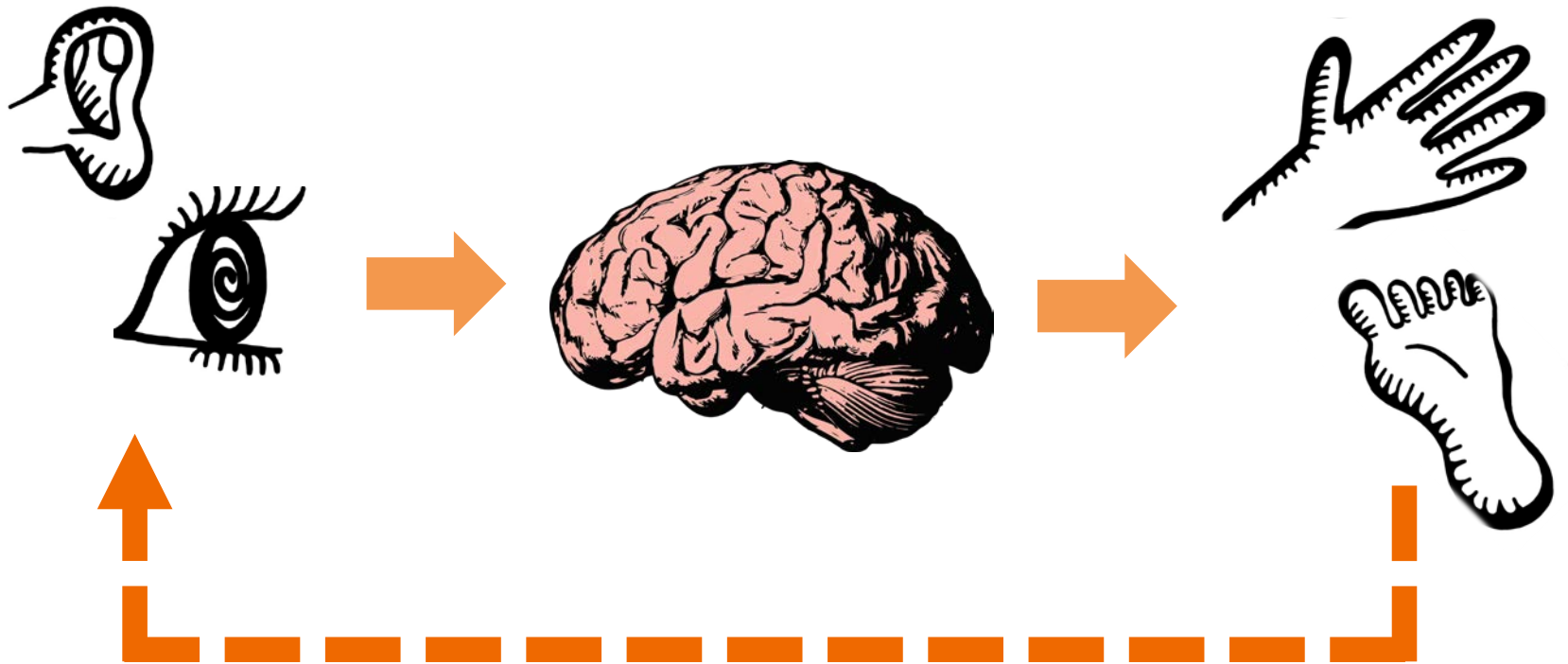
- **Question 2:**

Could a robot think and feel?

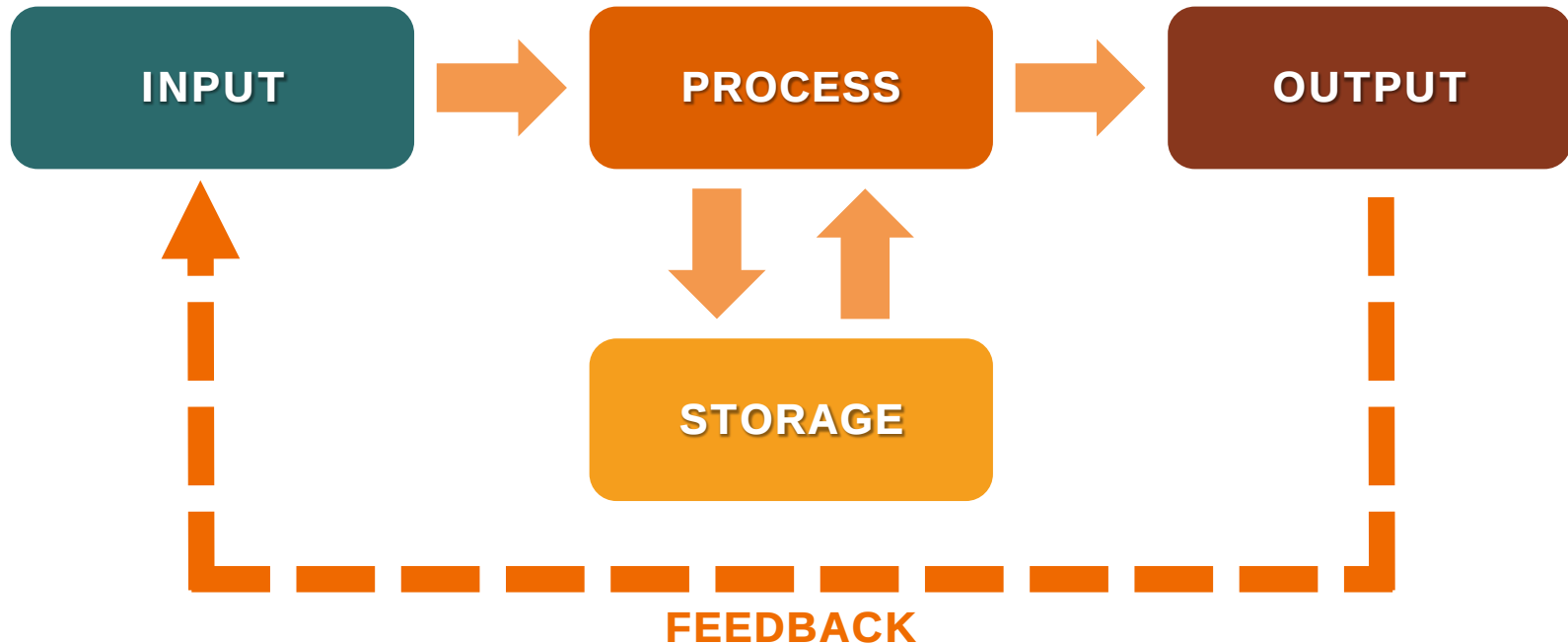
- What is your opinion? Show it!
- What is your argument?



The Human Senses



The I/O System

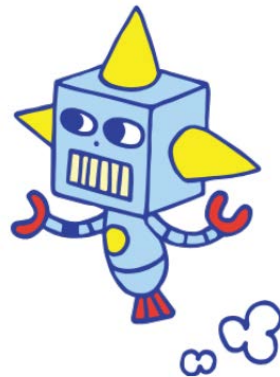


Phase 2



Task 2 Do as I say

- Instruct the “human robot” to ...
 - Walk around or toward ...;
 - Clean the board;
 - ...
- Write down **step-by-step** instructions



Task 2 Do as I say

- **Discussion:**
- Did the “human robot” do what you expected or instructed?
- What kinds of instructions are **well written** to carry out by the “robot”?

Programming

- The way of communicating to robots or computers
- Using the language (**code**) that robots or computers can understand

Human Languages

- Could a robot understand ...

こんにちは 你好 여보세요 Здравствуйте

Salut

Hello

Hallo

Привет

Hola

Hej

Halò

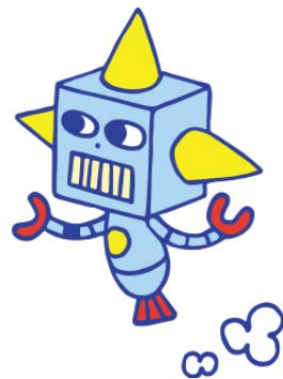
aloha

مرحبا

Kia ora

Merhaba

สวัสดี



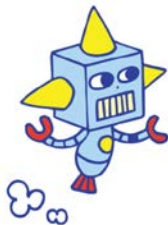
Programming Language

- Text- and block-based
- Should be precise and logical

say

Welcome to this course!

Which one is precise



Make a cup of tea

define Make a cup of tea

Boil water in a pot.

Put a tea bag into a cup

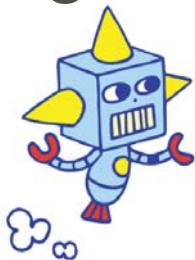
Pour the hot water into the cup

Add some milk and sugar

Task 3 Compare the Code

- Run the two programs below;
See what is different:

Pay attention to
the logical order



```
when green flag clicked
switch costume to robot-a
go to x: -80 y: 0
point in direction 90
say Let's go! for 1 seconds
switch costume to robot-b
```

```
when green flag clicked
switch costume to robot-d
go to x: -80 y: 0
point in direction 90
say Let's go! for 1 seconds
switch costume to robot-b
```

Practice



Task 4 Program Your Partner

- Work in pair and “program” each other
- Instruct to perform:
 - Walk in space;
 - Ride a horse;
 - Row a boat;
 - ...



Wrap Up



Human World

body and mind

vocabulary

speech

communicating

Robot World

I/O System

computer code

program

programming