

NONI ROBOT

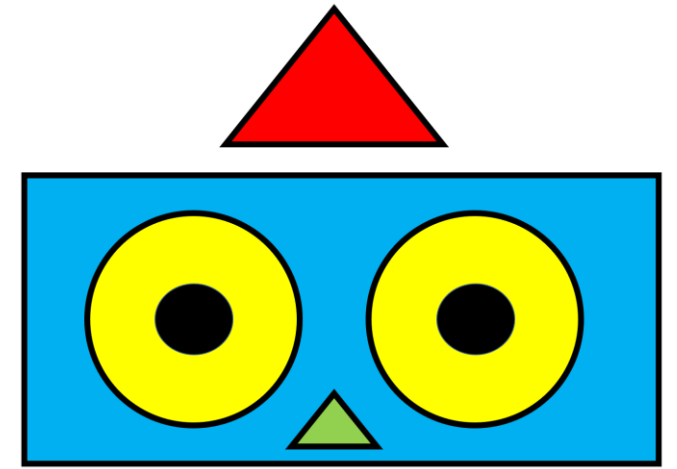
*Educational robotics for
everyone*

support@nonirobot.com

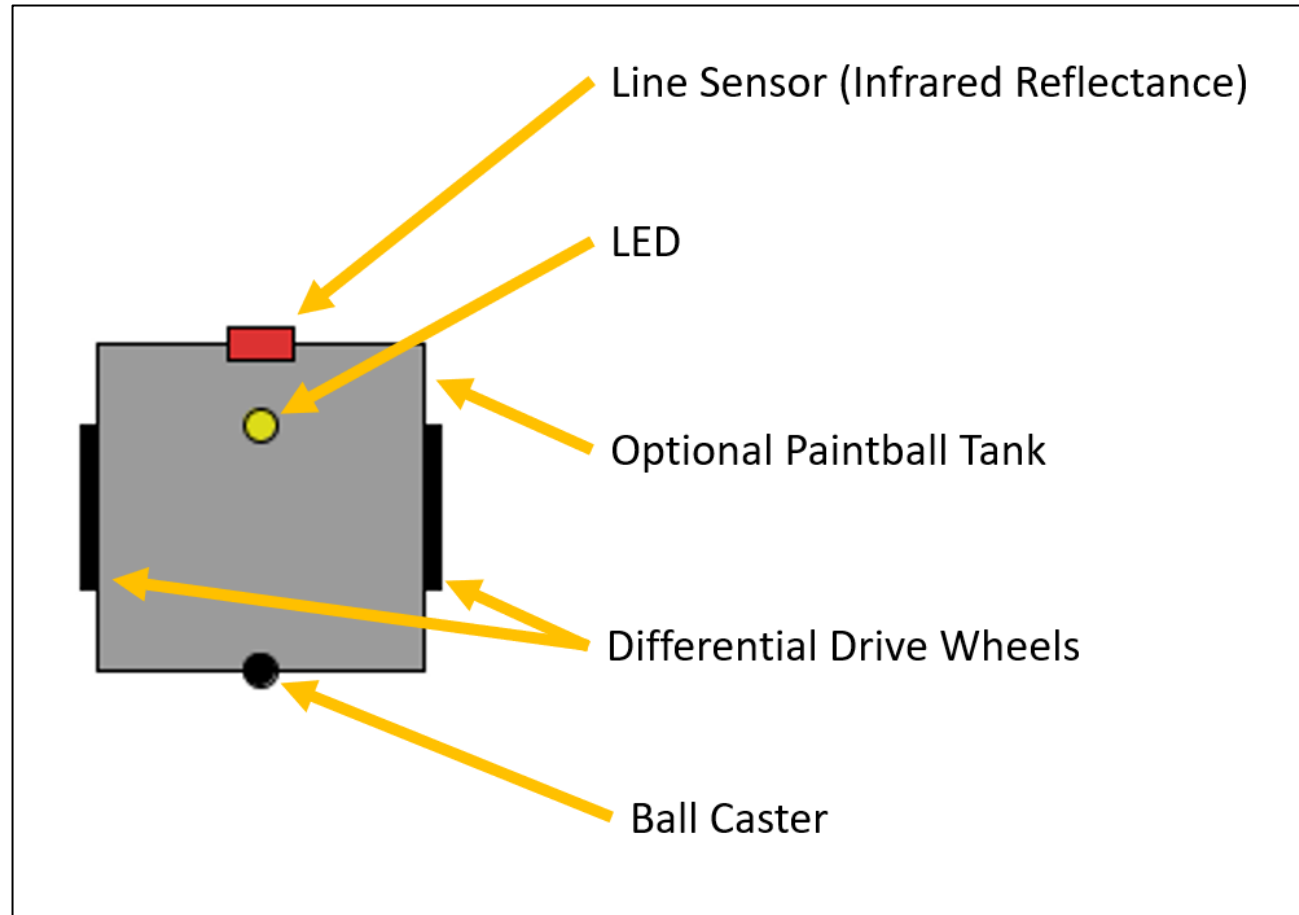
www.nonirobot.com

What is NONI Robot?

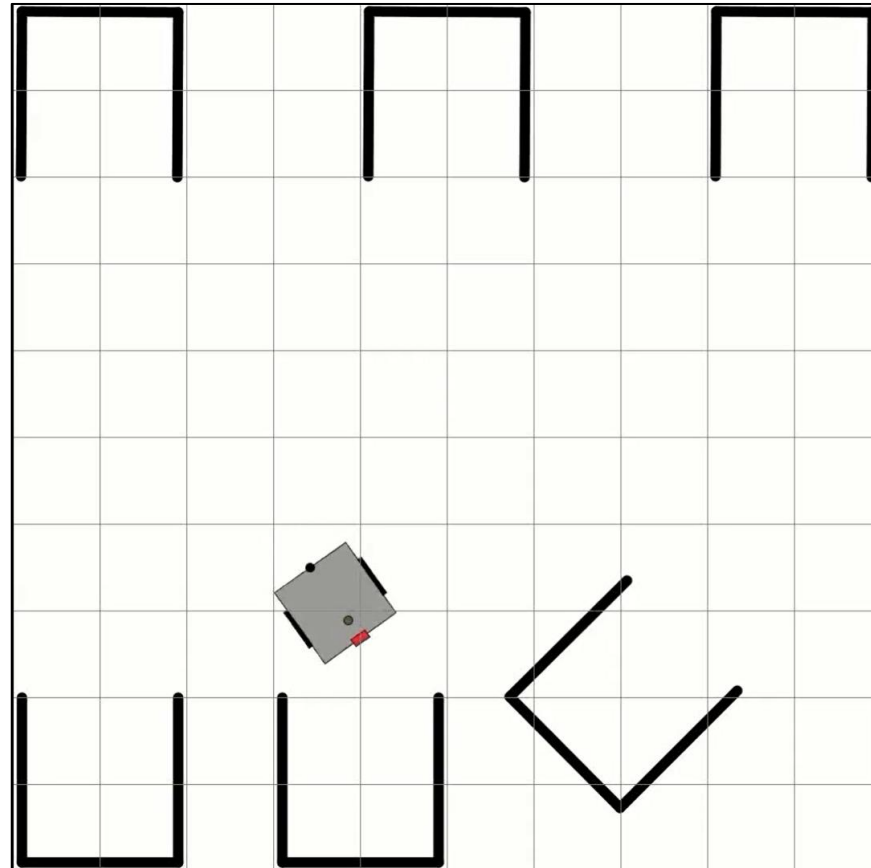
- No Nonsense Inside (NONI)
- Simple robot that lives in a virtual world
- Simple commands for beginners
- Advanced commands for experienced users
- Robot kit
- Link: www.nonirobot.com
- Command reference: www.nonirobot.com/reference
- Support contact: support@nonirobot.com



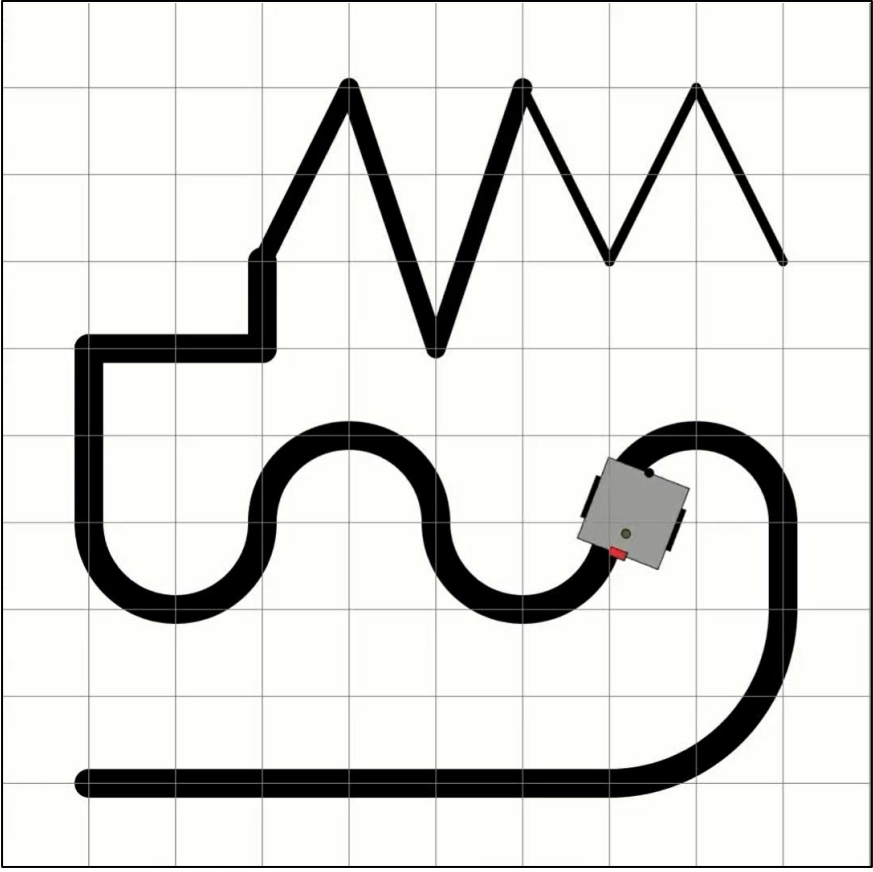
Robot Features



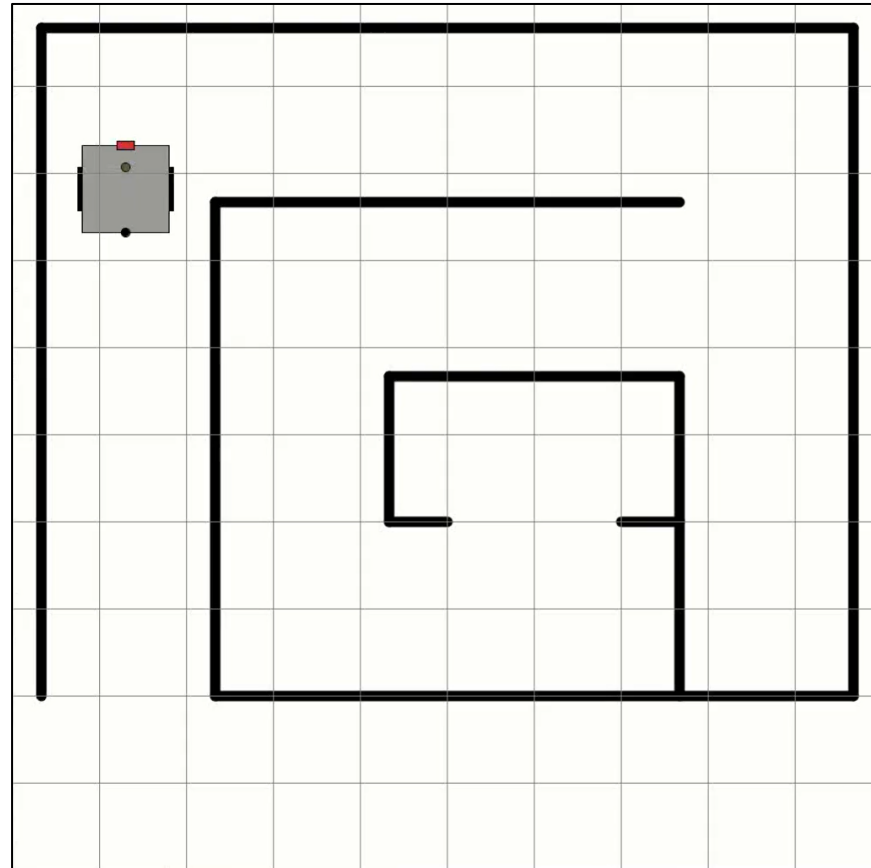
Feeling confident? Make it drive between garages



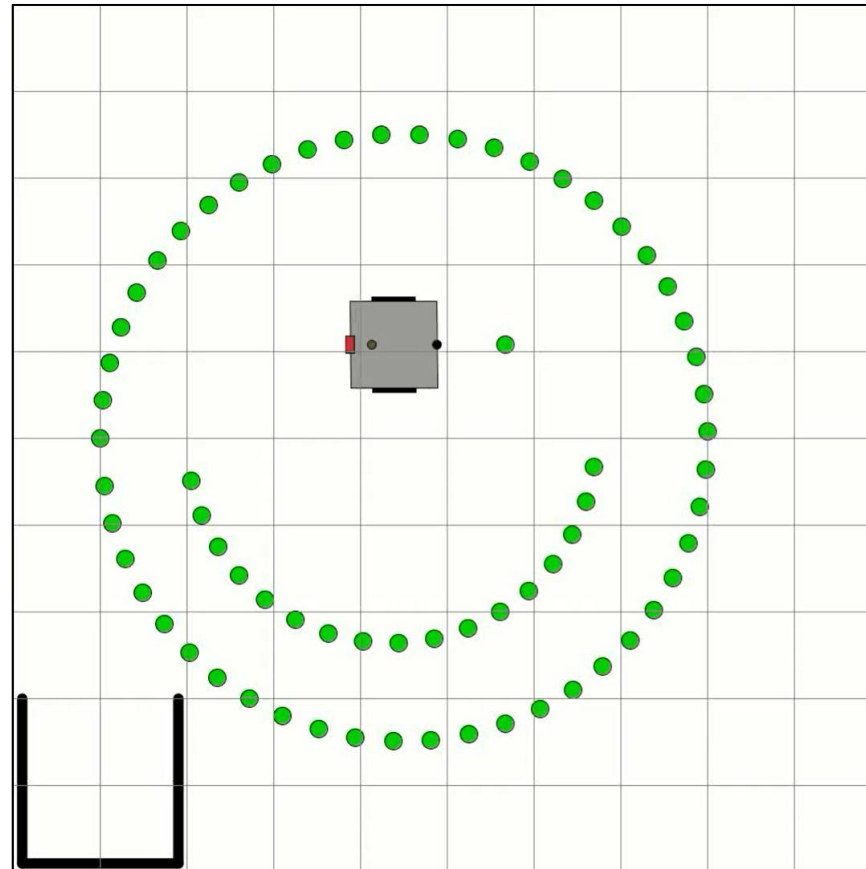
Looking for a challenge? Make it follow a complicated path



Learn how to make a robot travel through a maze!



Combine Art and Technology. Make it draw by dropping paintballs!

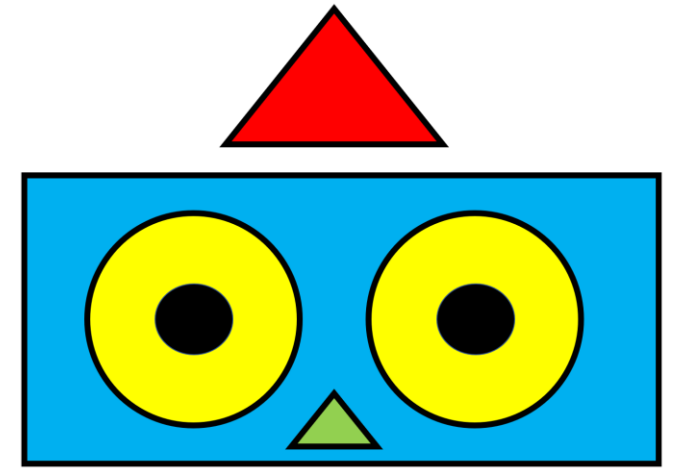


Who created NONI Robot?

- Experts in robotics, mechanical engineering, aerospace engineering, computer science, and STEM education with 20+ years of experience
- Based in Pakistan and North America

Who can use NONI Robot?

- Children aged 8-80!
- Parents and teachers who want to be involved or want to develop their own skills
- Anyone who is interested in getting started in robotics



Is learning computer programming a prerequisite?

- No!
- Just be able to read and write basic English

What will NONI Robot teach?

- Skills related to Science, Technology, Mathematics, and Art
- Cartesian coordinates
- Angles
- Learning through curiosity and exploration
- Problem-solving skills
- Design
- Patience
- Discipline

What will NONI Robot teach?

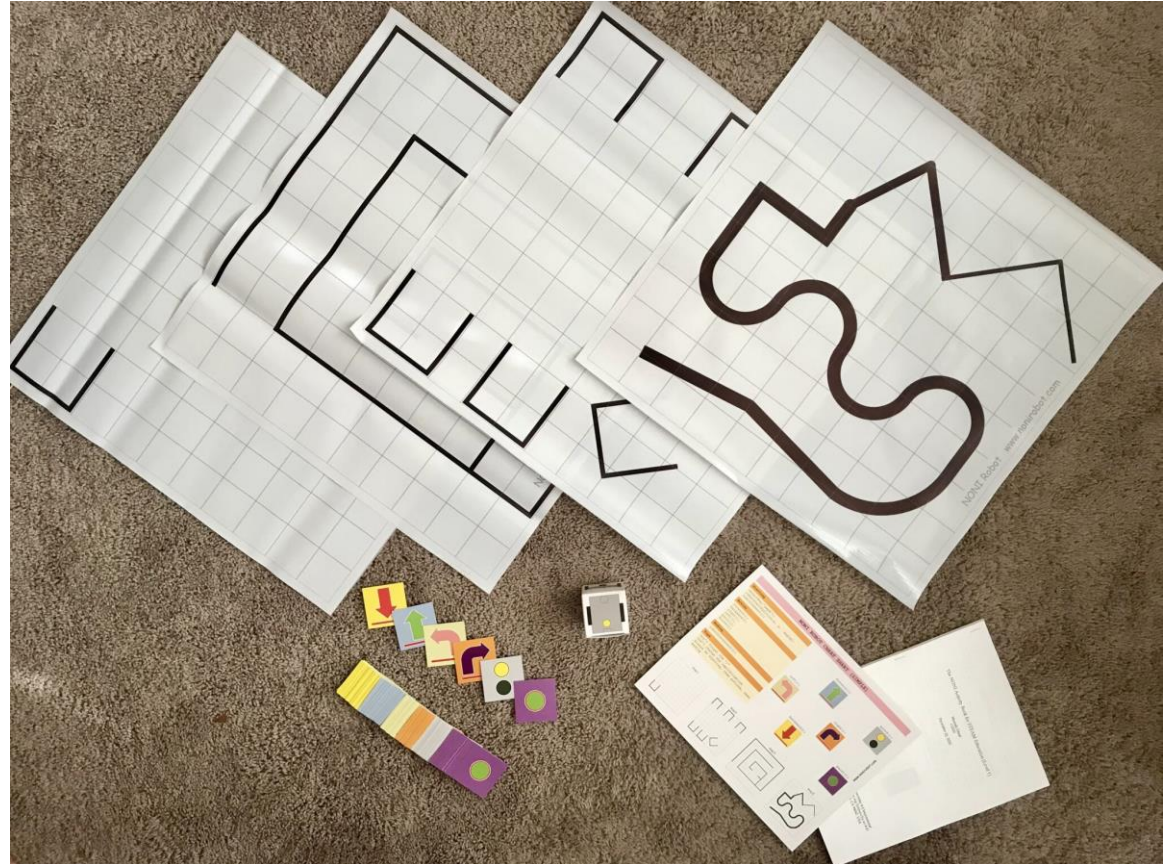
- How robots work
- How to draw art using a robot
- Making a robot do repetitive tasks
- Some programming (teaching programming not an objective)

What do I need to run NONI Robot?

- For best results, robot kit, along with the robot simulator (simulator runs on computer or cell phone)
- Can also use just the robot kit or just the robot simulator

What is included in the kit?

- Robot
- Action card set
- 4x Activity mats
- Cheat sheet
- Activity book (color print)
- 60+ learning activities



How can I access the simulator?

- Go to www.nonirobot.com

Click the "Run" button to run JavaScript code from the text area.

Click the "Example" button to load example code.

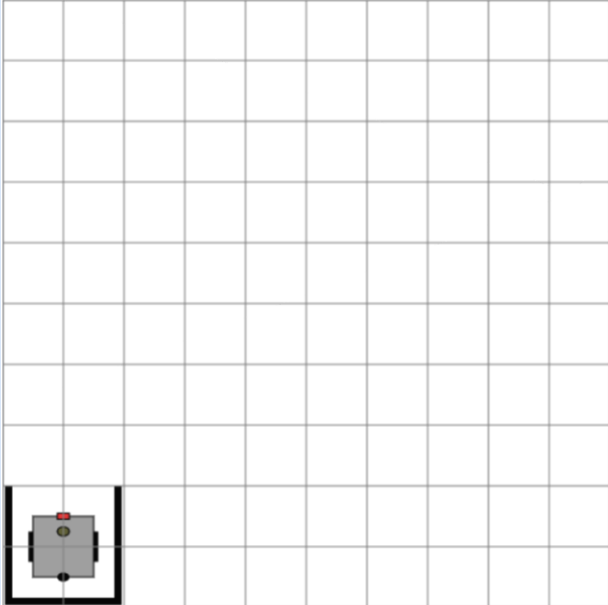
RUN STOP EXAMPLE

Enter your code here:

```
selectMap("map1");
robotStartPosition(100, 100, 0);
robotConnect();

blink();
forward();
right();
forward();

robotDisconnect();
```



Left Velocity	Right Velocity
-100	-100
-80	-80
-60	-60
-40	-40
-20	-20
0	0
-20	-20
-40	-40
-60	-60
-80	-80
-100	-100

Line Sensor

250
225
200
175
150
125
100
75
50
25
0

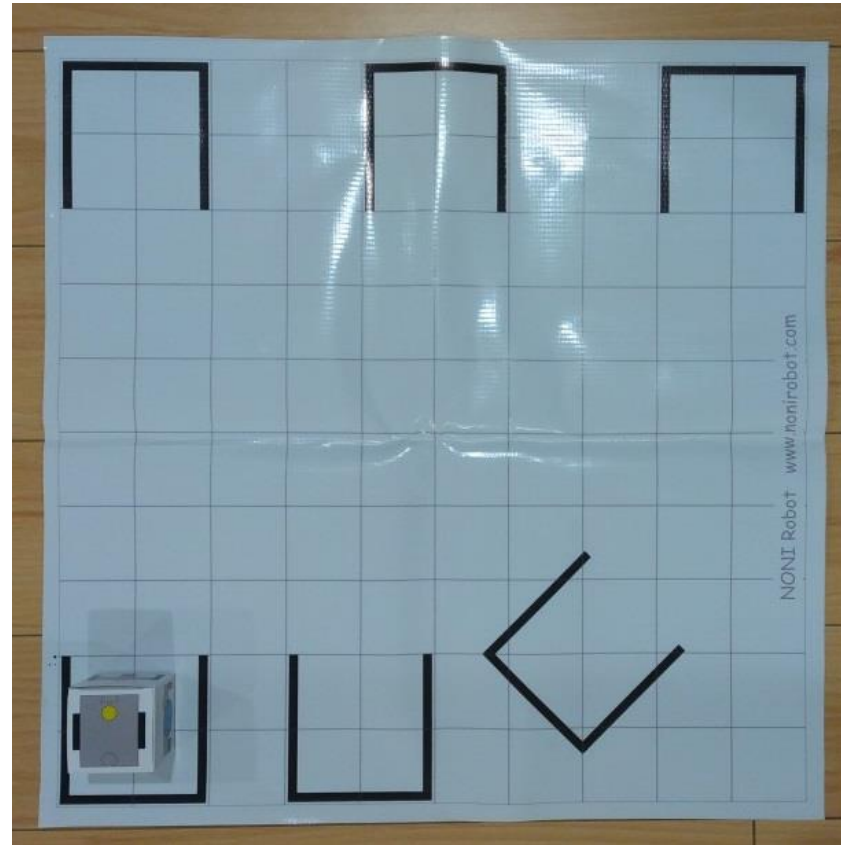
How easy is it to use NONI Robot?

- **STEP 1:** Read the activity from the activity book

Activity 41
Make the robot follow the path shown. Write down your code below. Try it out with the NONI Robot.

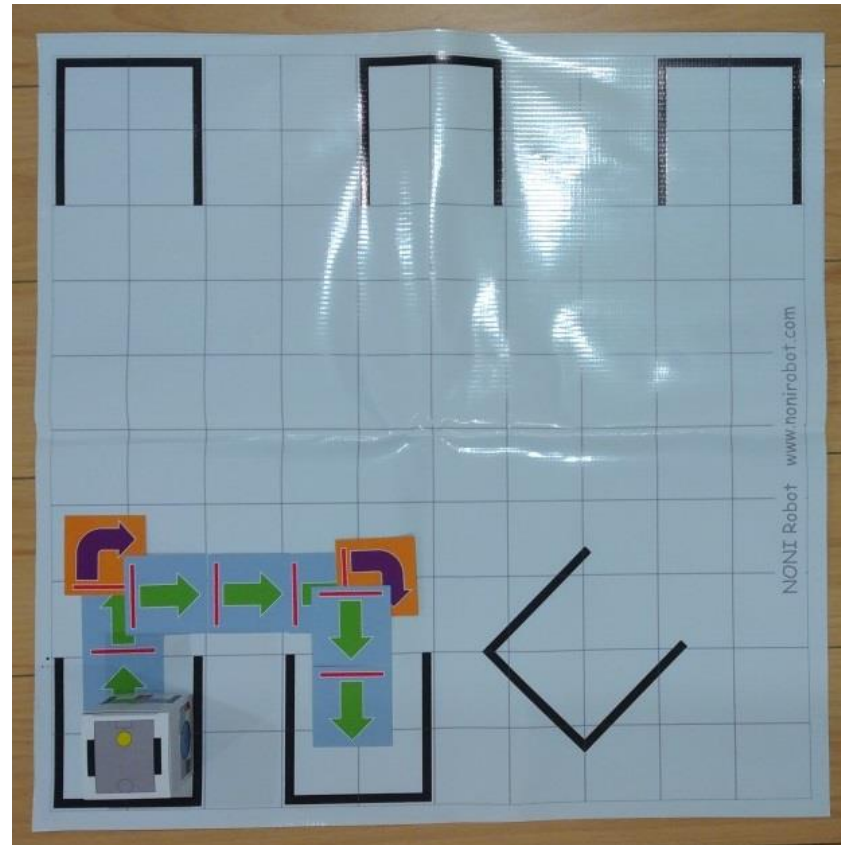
How easy is it to use NONI Robot?

- **STEP 2:** Set up the activity mat with the robot at the starting point



How easy is it to use NONI Robot?

- STEP 3: Work out the activity steps using action cards



How easy is it to use NONI Robot?

- **STEP 4:** From the action cards, work out the robot commands using the cheat sheet

NONI ROBOT CHEAT SHEET (SIMPLE)

Starting

```
selectMap("map#");
robotStartPosition(x, y, angle);
robotConnect();
```

Action



```
forward();
backward();
right();
left();
paint();
blink();
```



Ending



```
robotDisconnect();
```

Tips

Don't forget the ";"
Don't change the capitalization
Always do starting, then actions, then ending

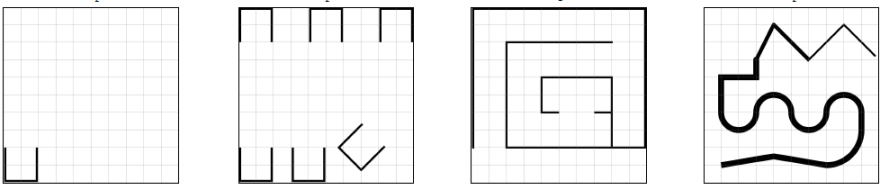
forward();  **backward();** 

right();  **left();** 

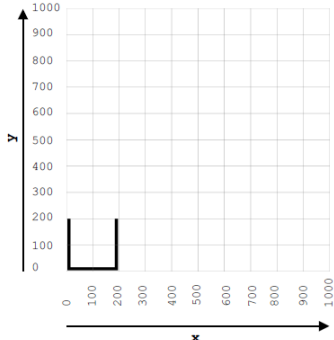
blink();  **paint();** 

www.nonirobot.com

map1 **map2** **map3** **map4**



Example




`selectMap("map1");`
`robotStartPosition(100, 100, 0);`
`robotConnect();`

`forward();`
`forward();`
`right();`
`forward();`

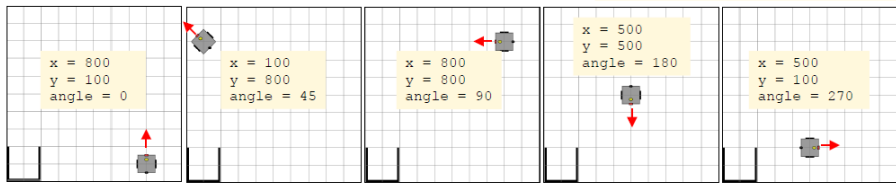
`robotDisconnect();`

Hint

Go forward twice. Then turn right. Then forward once.



angle = 270 **angle = 180** **angle = 90** **angle = 45**



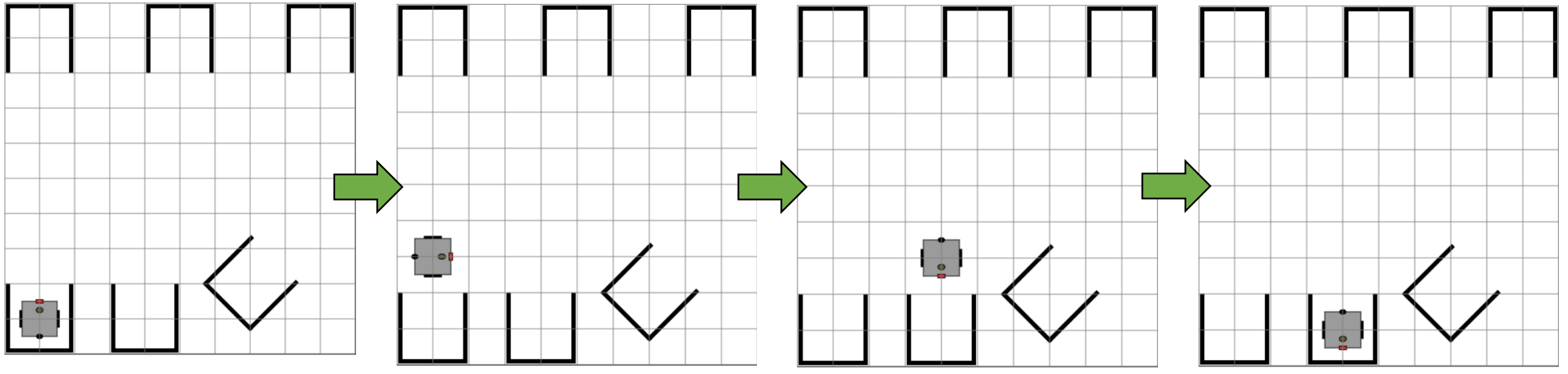
How easy is it to use NONI Robot?

- STEP 5: Write down the robot commands in the activity book

```
selectMap("map2");  
robotStartPosition(100, 100, 0);  
robotConnect();  
  
forward();  
forward();  
right();  
forward();  
forward();  
forward();  
right();  
forward();  
forward();  
  
robotDisconnect();
```

How easy is it to use NONI Robot?

- **STEP 6:** Enter the commands in the robot simulator and watch it in action!



Why should I choose NONI Robot over other educational robots?

NONI Robot

- Quick and easy start
- Lower cost (\$25) than the cheapest robots currently available (\$50+)
- Frustration-free and reliable

Other Robot Kits

- Much time wasted on setting up, e.g., robot assembly, software installation, etc.
- Reliable robot kits cost (\$200+). Cheaper, unreliable robots cost \$50+
- Cheaper kits have electrical/mechanical reliability issues which waste time, and demotivate

Why should I choose NONI Robot over other educational robots?

NONI Robot

- Supports learning through activity cards as well as learning through code (multiple aptitudes)
- Respects privacy. No registration, sign up, or tracking.
- Supports widest variety of platforms (Windows, Mac, Linux, Android, iOS, and more)

Other Robot Kits

- Usually support learning through cards or through code, but not both
- Usually require users to sign up/register, install intrusive apps that track users and sell personal information
- Often limited to Windows and Mac, or mobile only

Why should I choose NONI Robot over other educational robots?

NONI Robot

- Graphics and software specifically designed not to slow down the computer or mobile
- Designed to minimize screen time and maximize “hands-on” time
- Free workshop to get started

Other Robot Kits

- Bloated graphics and software can often slow down the computer or mobile, which is frustrating
- Often require extensive screen time, which is not healthy for children or adults
- Usually requires users and teachers to figure it out on their own, or charge extensive fees for training

Educational robotics for everyone

- Link: www.nonirobot.com
- Command reference: www.nonirobot.com/reference
- Support contact: support@nonirobot.com

