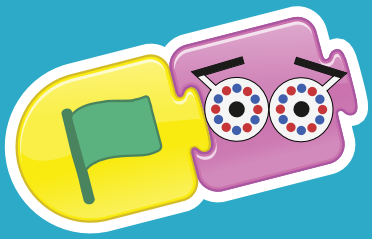
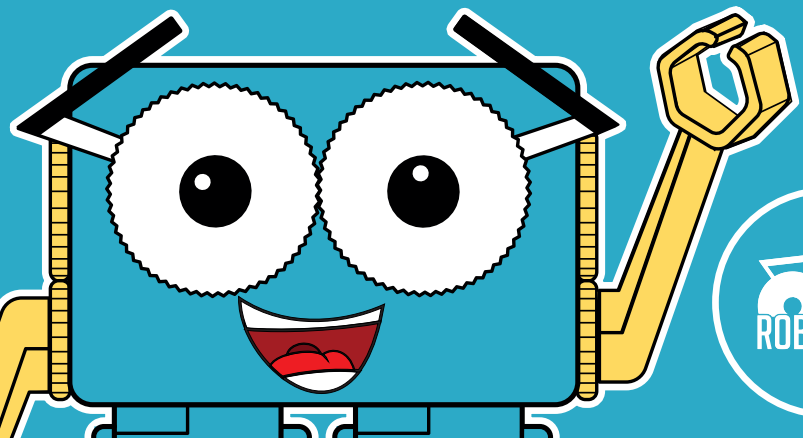
MARTY BLOCKS jr

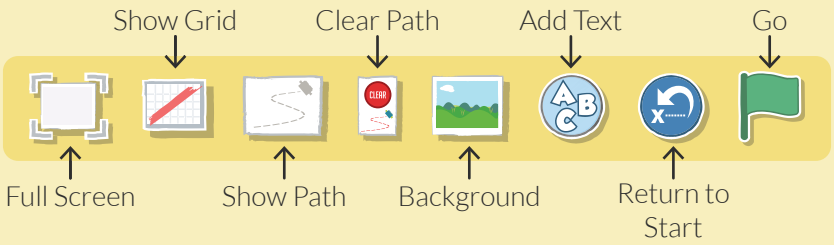
CODING ACTIVITY BOOK

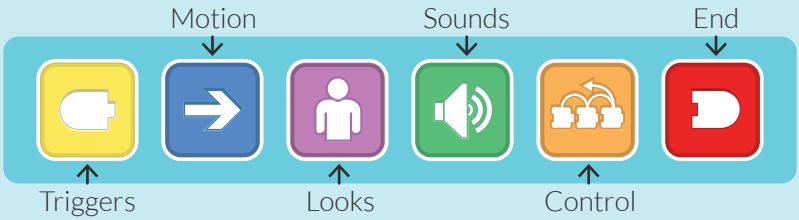




ROBOTICAL

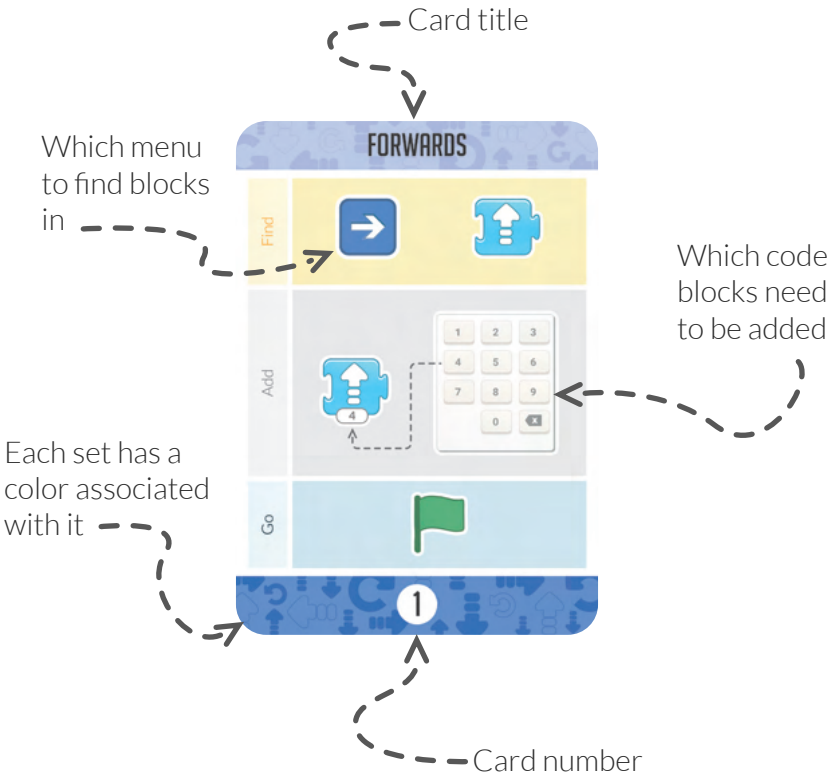
HOW TO USE MARTYBLOCKJR





HOW TO USE THE CODING CARDS

You will need to use these cards alongside the MartyBlocksJr coding environment, which can be found within the Marty the Robot app.



MARTY CODING CARDS

Choose a set of cards from the list below. There's a mixture of standalone cards and some that build upon the preceding card.

- Events*
- Motion*
- Looks *
- Sound*
- Control
- End
- Marty Maze
- Marty Plays Ball
- I Can

* If you are new to Marty and coding, start with these four sets to learn the basics.

EVENTS

This card is designed to introduce you to the basics of MartyBlocksJr, and get you started on your coding journey.

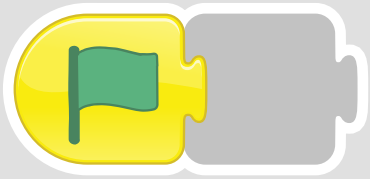
1. Getting Started

GETTING STARTED

Find

Add

This will allow you to control Marty



Add some code to try it out, then click the green flag to start

Go

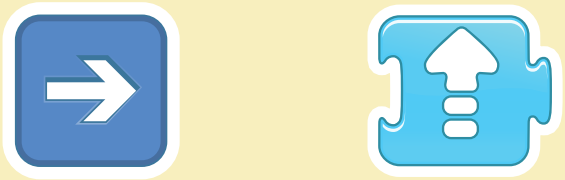
MOTION

These cards can be completed in any order but it may help to do them in numerical order.

1. Forward
2. Backwards
3. Slide Right
4. Slide Left
5. Turn Right
6. Turn Left
7. Marty Dance
8. Kick Right
9. Kick Left
10. Make a Square
11. Marty Does the Can Can

FORWARDS

Find



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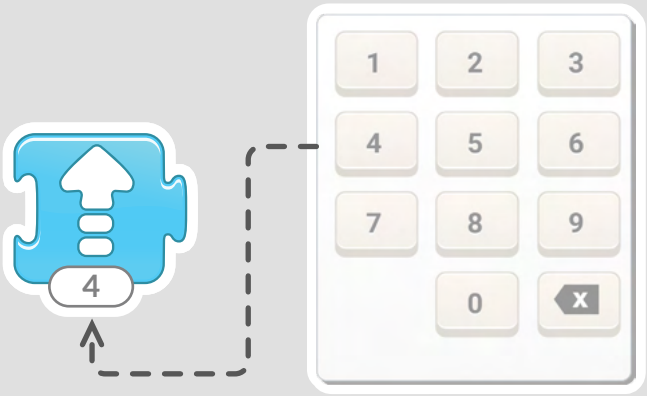
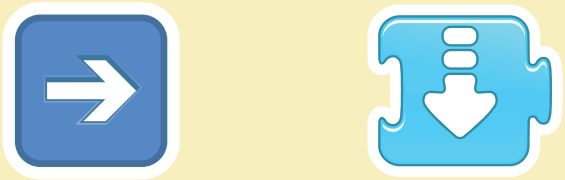


Go

BACKWARDS

Find



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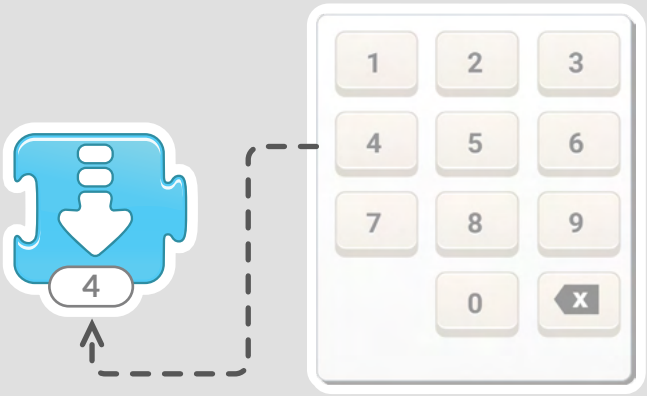
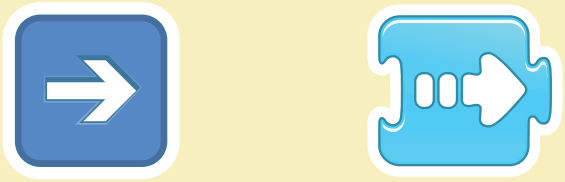


Go

SLIDE RIGHT

Find



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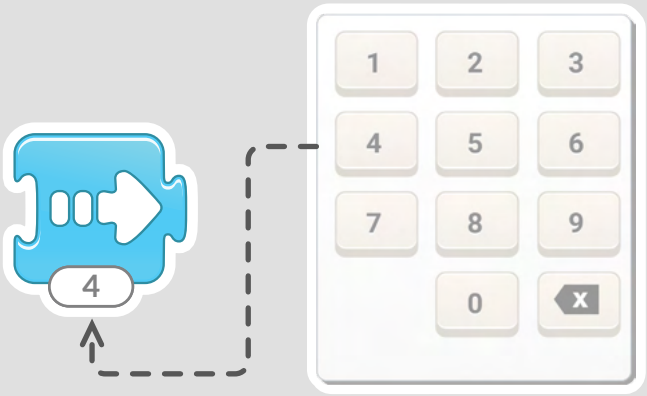
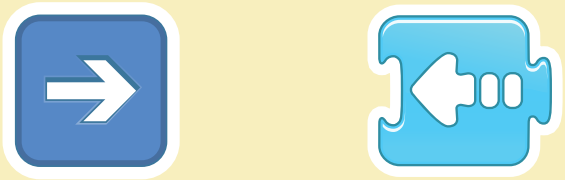


Go

SLIDE LEFT

Find



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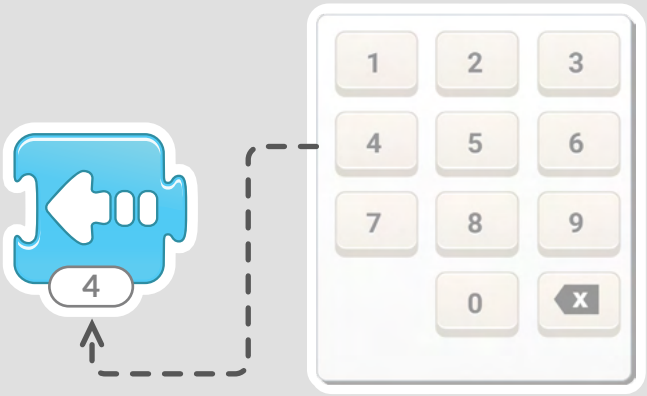
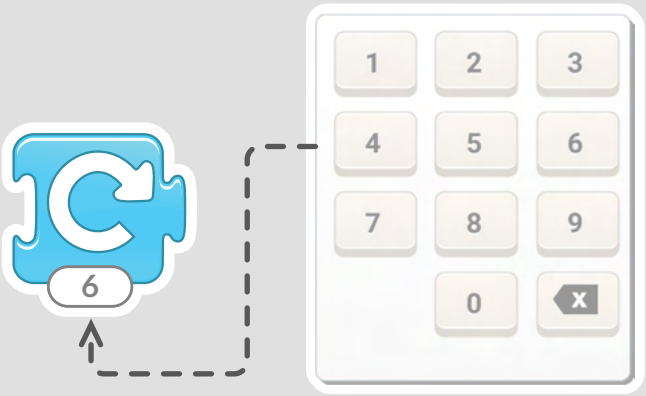


Go

TURN RIGHT

Find

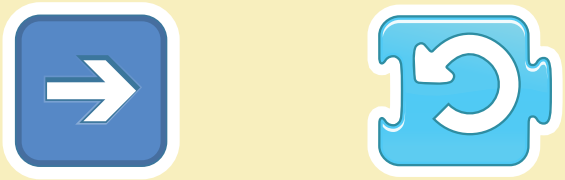
Add



Go

TURN LEFT

Find



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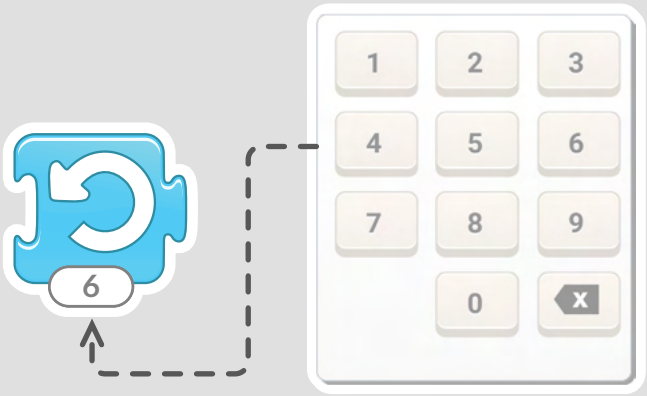
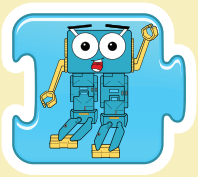


Go

MARTY DANCE

Find



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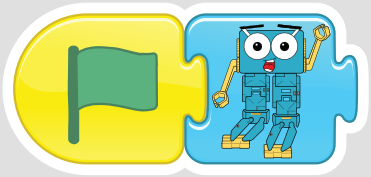
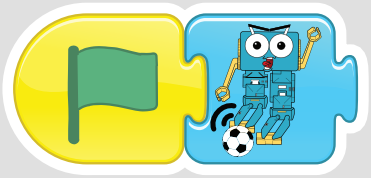


Go

KICK RIGHT

Find

Add



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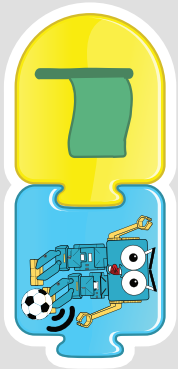
Go	Add	Find
		

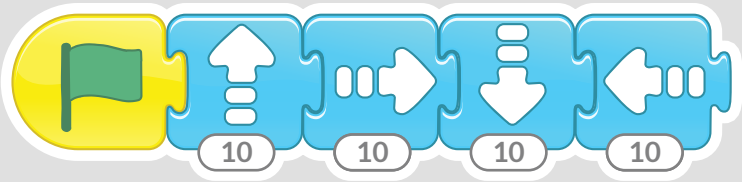
9

KICK LEFT

MAKE A SQUARE

Find

Add



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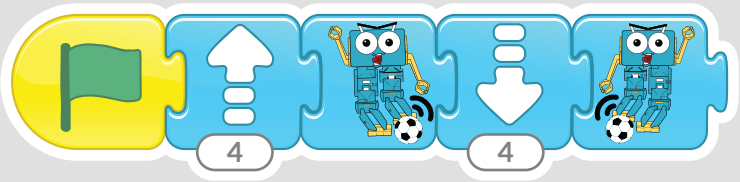
MARTY DOES THE CAN CAN

Find

Add



Go

LOOKS

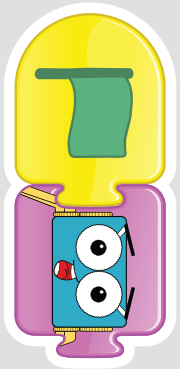
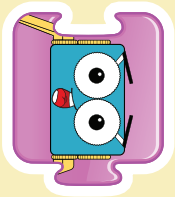
These cards can be completed in any order but it may help to do them in numerical order.

1. Excited Eyes
2. Wide Eyes
3. Angry Eyes
4. Normal Eyes
5. Marty's Eye Wiggle
6. Marty Wave Left
7. Marty Wave Right
8. Marty Celebrates
9. Marty Shows Off*
10. Pin Wheel Eyes*
11. Colored Eyes*
12. Make Marty Happy*
13. Marty Says Hello

* This card requires LED eyes

1

EXCITED EYES

Go	Add	Find
		

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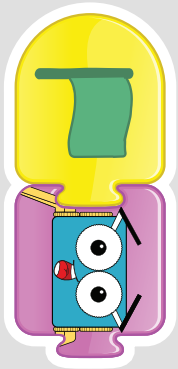
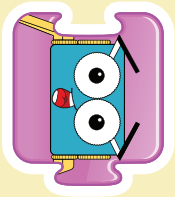
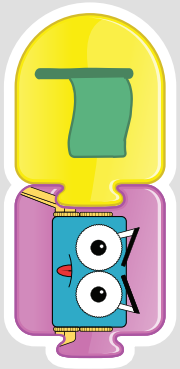
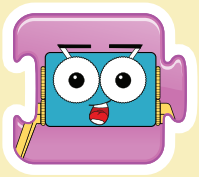
		

ANGRY EYES

Go	Add	Find
		

NORMAL EYES

Find



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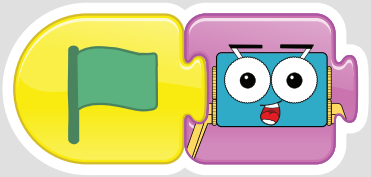
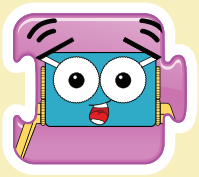


Go

MARTY'S EYE WIGGLES

Find



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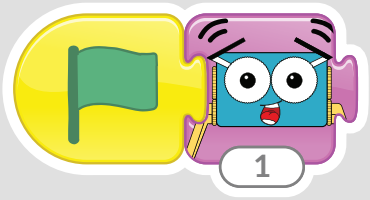
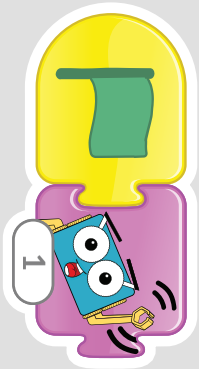


Go

MARTY WAVE LEFT

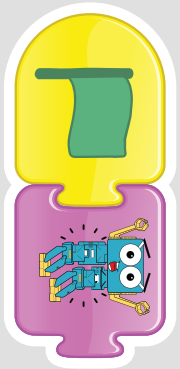
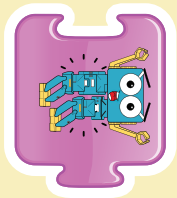
Go	Add	Find
		

MARTY WAVE RIGHT

Find

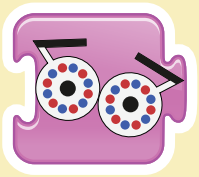
Add

Go

Go	Add	Find
		

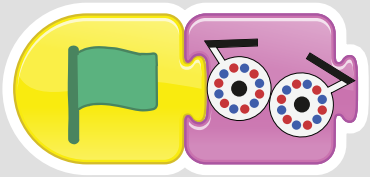
MARTY SHOWS OFF

Find



* This card requires LED eyes

Add



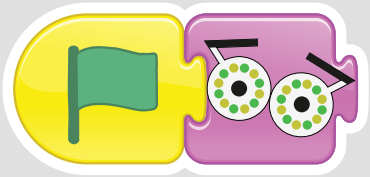
Go

PIN-WHEEL EYES

Find

* This card requires LED eyes

Add



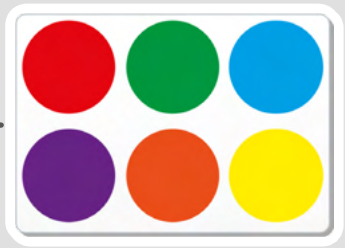
Go

COLORED EYES

Find

* This card requires LED eyes

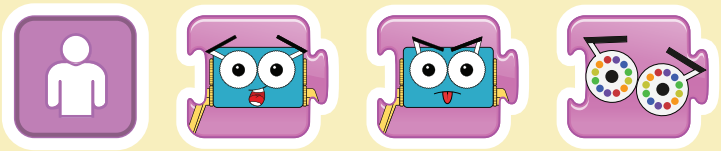
Add



Go

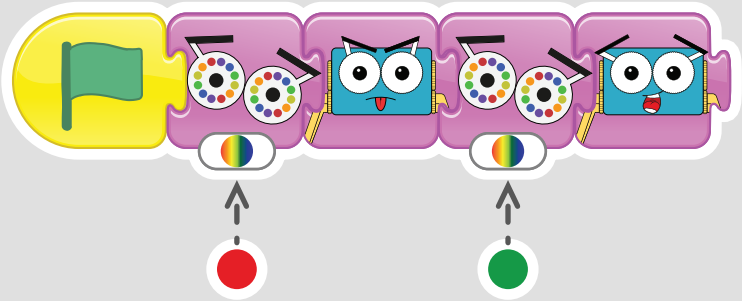
MAKE MARTY HAPPY

Find



* This card requires LED eyes

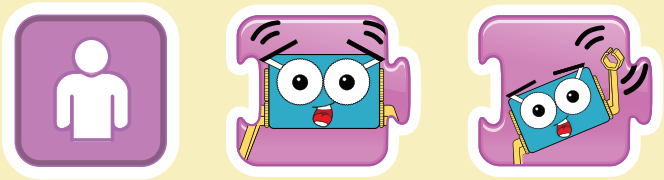
Add



Go

MARTY SAYS HELLO

Find



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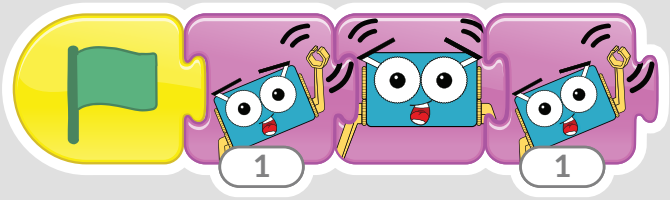


Go

SOUNDS

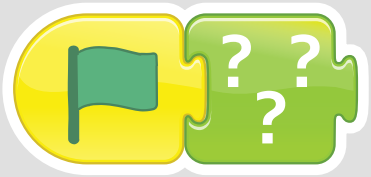
These cards can be completed in any order but it may help to do them in numerical order.

1. Marty Confused
2. Marty Disbelief
3. Marty Excited
4. Marty No Way!
5. Marty No!
6. Marty Whistle
7. Marty Hello
8. Marty Is Angry

MARTY CONFUSED

Find

Add

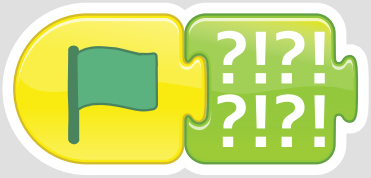


Go

MARTY DISBELIEF

Find

Add



Go

MARTY EXCITED

Find

Add

Go

MARTY NO WAY!

Find

Add

Go

MARTY NO!

Find

Add

Go

MARTY WHISTLE

Find

Add

Go

MARTY HELLO

Find

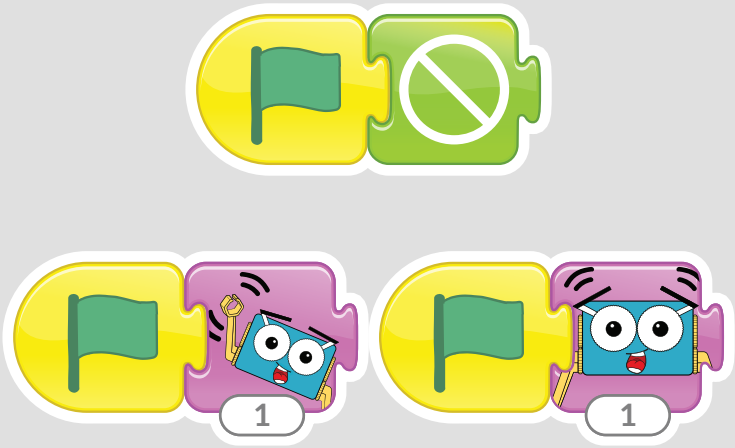
Add

Go

MARTY IS ANGRY

Find

Add



Go

CONTROL

These cards can be completed in any order but it may help to do them in numerical order.

1. Marty Wait
2. Marty Wait Example
3. Marty Stop
4. Marty Repeat
5. Marty Repeat Example

MARTY WAIT

Find

Add

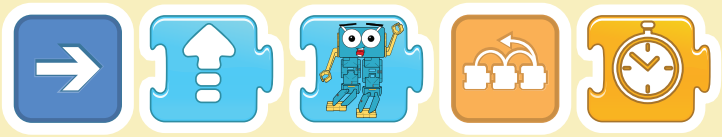
This will allow you to make Marty wait

Add some code to try it out, then click the green flag to start

Go

MARTY WAIT EXAMPLE

Find



Add

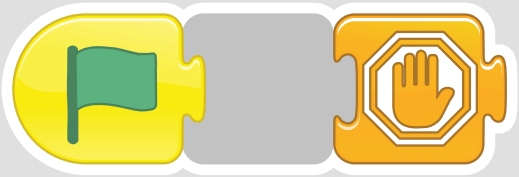
Go

MARTY STOP

Find

Add

This will allow you to stop Marty



Add some code to try it out, then click the green flag to start

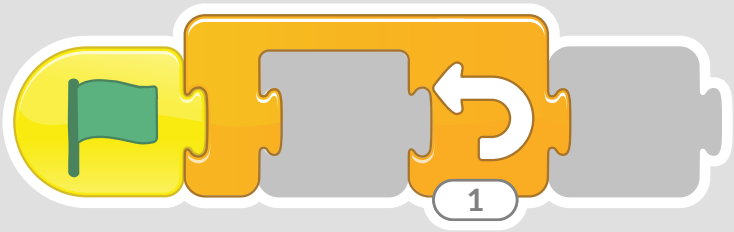
Go

MARTY REPEAT

Find

Add

This will allow repeat part of the code



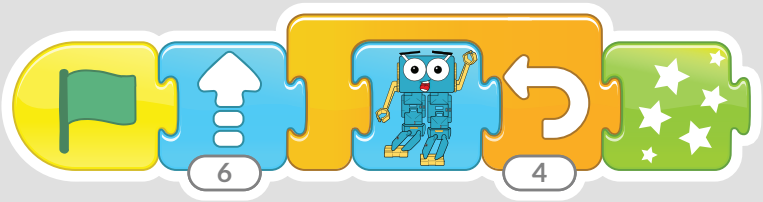
Add some code to try it out, then click the green flag to start

Go

MARTY REPEAT EXAMPLE

Find

Add



Go

END

This card is designed to introduce you to the basics of MartyBlocksJr, and get you started on your coding journey.

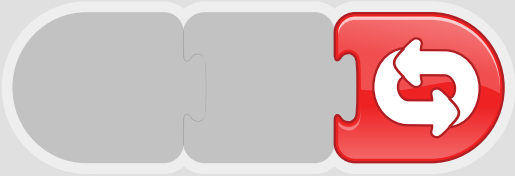
1. Marty Repeat Forever
2. Marty Repeat Forever Example

MARTY REPEAT FOREVER

Find

Add

This will allow you repeat the code forever



Add some code to try it out, then click the green flag to start

Go

MARTY REPEAT FOREVER EXAMPLE

Find

Add

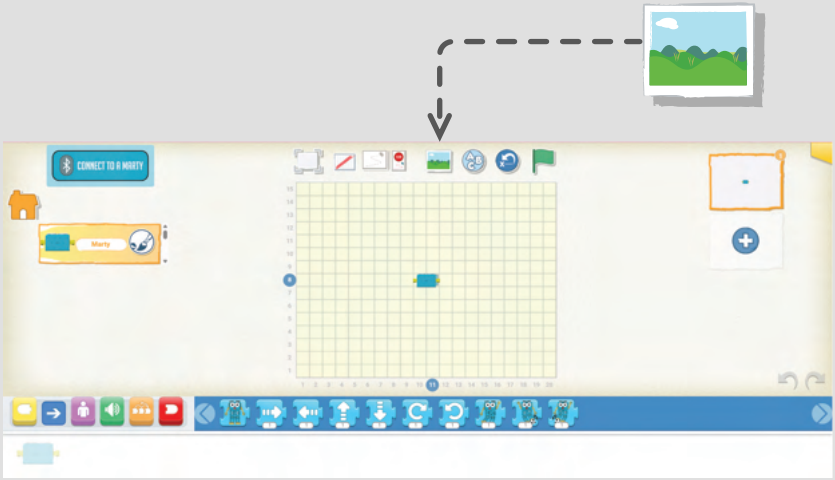
Go

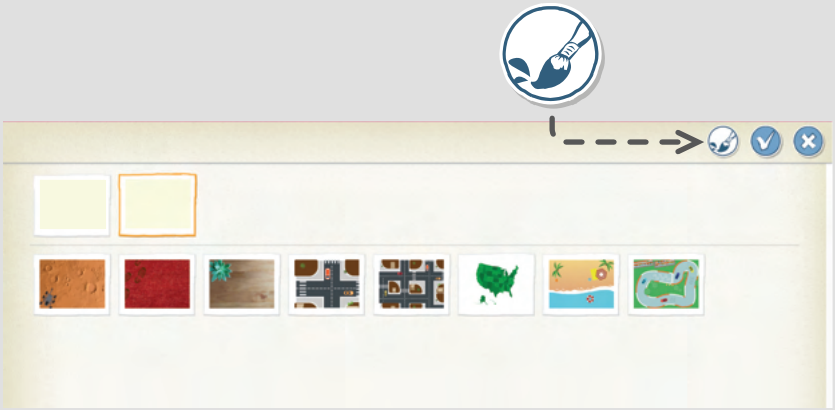
MARTY MAZE

These cards should be completed in numerical order.

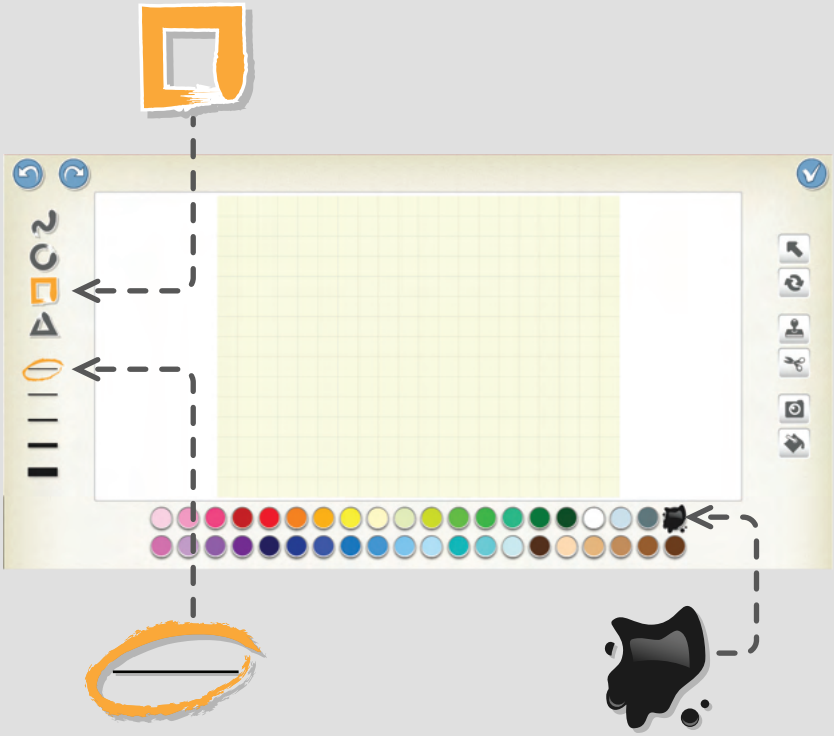
1. Marty Maze 1
2. Marty Maze 2
3. Marty Maze 3
4. Marty Maze 4
5. Marty Maze 5
6. Marty Maze 6
7. Marty Maze 7
8. Marty Maze 8
9. Marty Maze 9
10. Marty Maze 10
11. Marty Maze 11
12. Marty Maze 12

MARTY MAZE 1

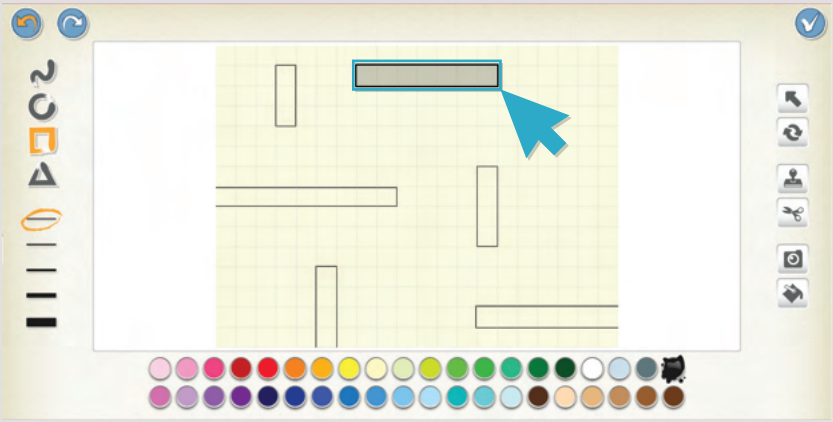


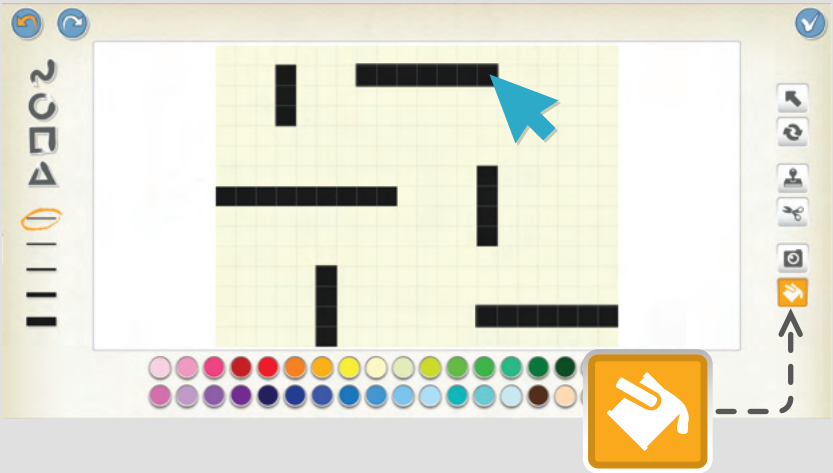


MARTY MAZE 2

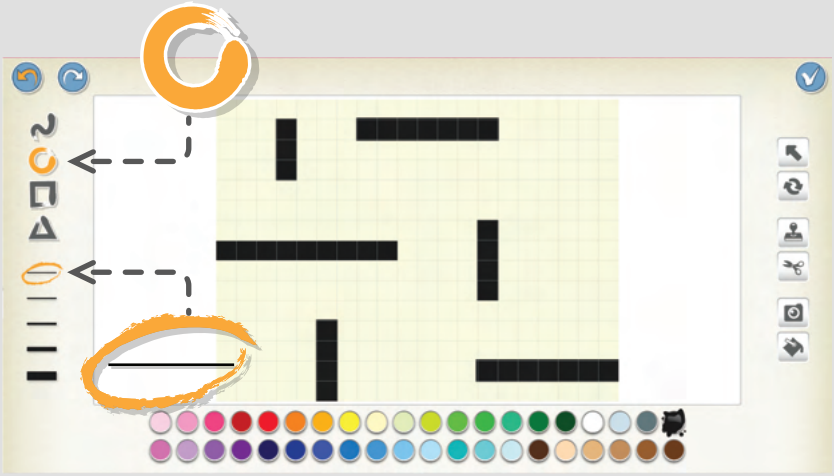


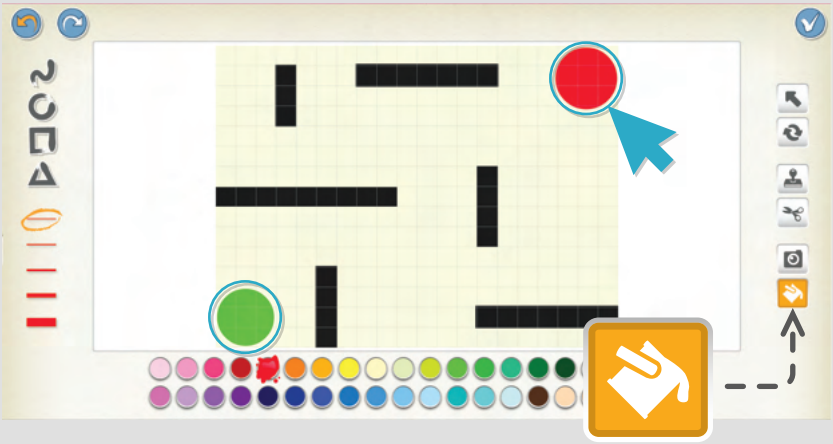
MARTY MAZE 3



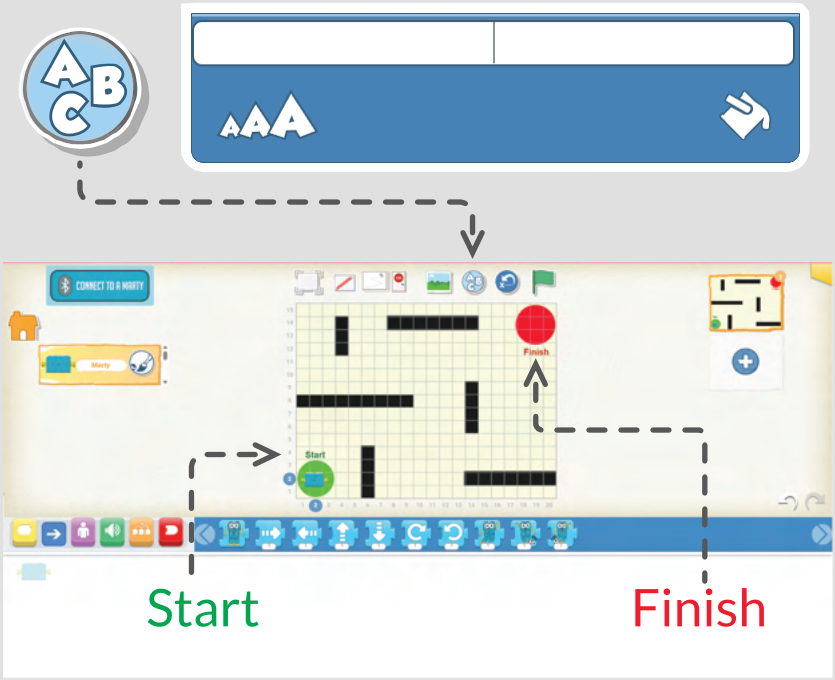


MARTY MAZE 4





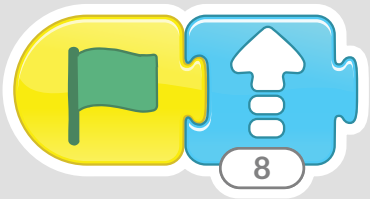
MARTY MAZE 5

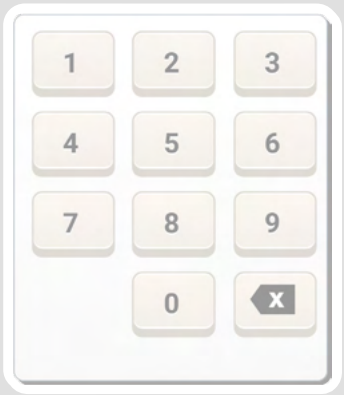


MARTY MAZE 6

Find

Add

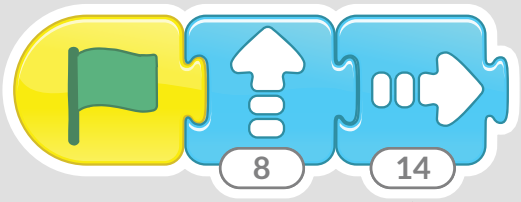


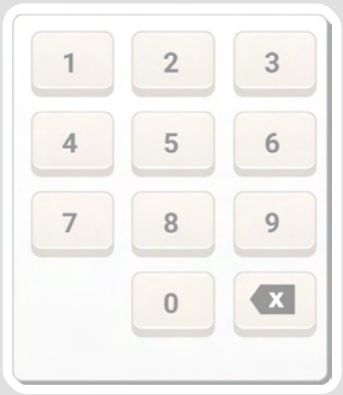


MARTY MAZE 7

Find

Add

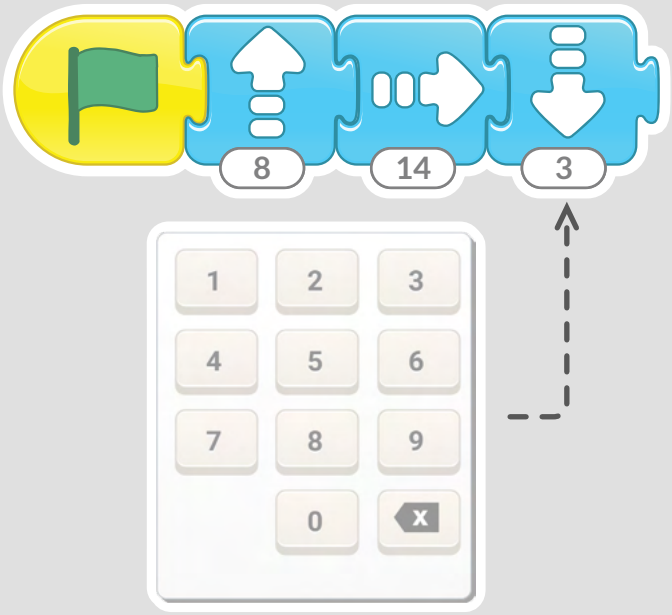




MARTY MAZE 8

Find

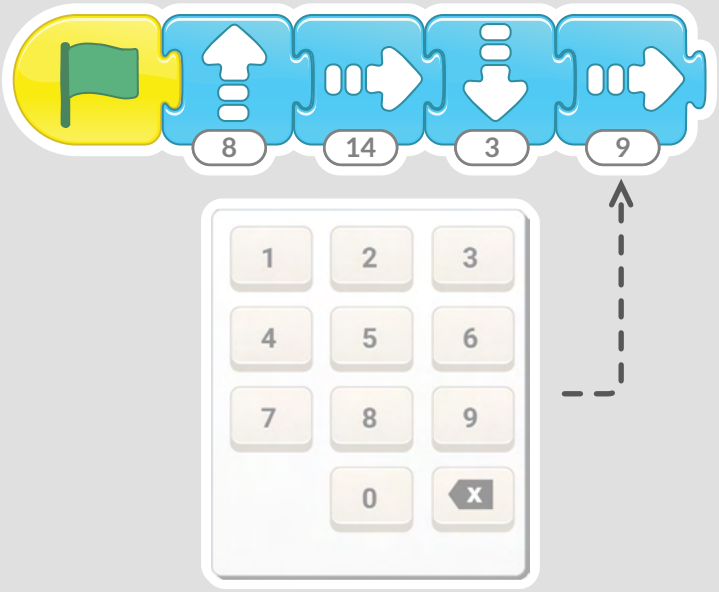
Add



MARTY MAZE 9

Find

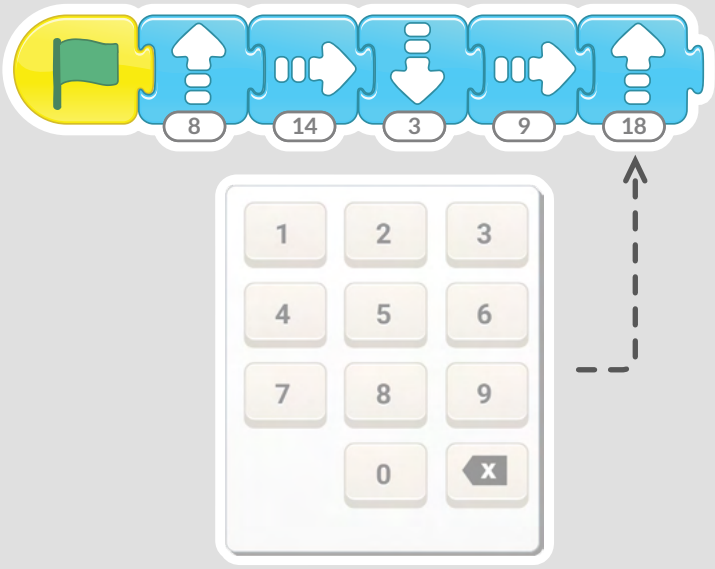
Add



MARTY MAZE 10

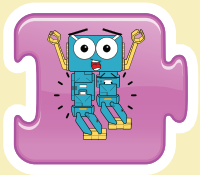
Find

Add

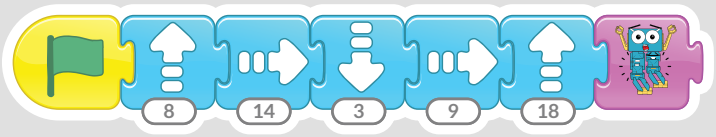


MARTY MAZE 11

Find

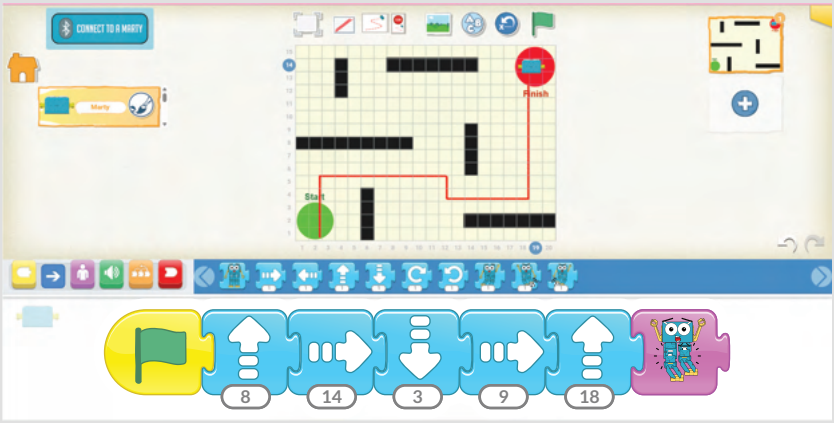


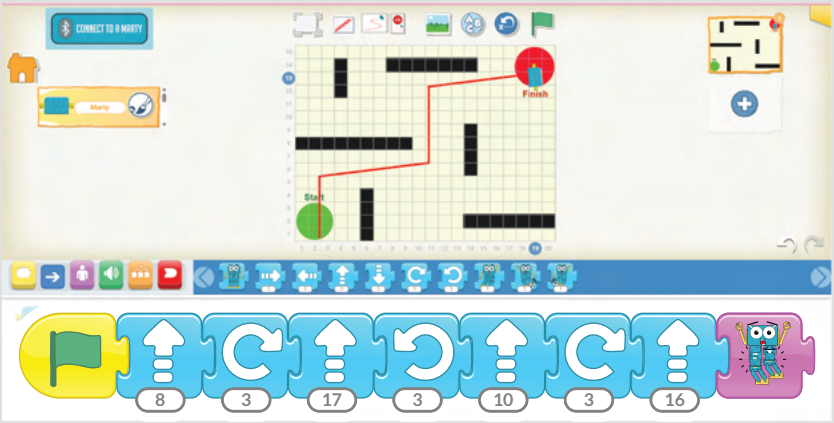
Add



Go

MARTY MAZE 12



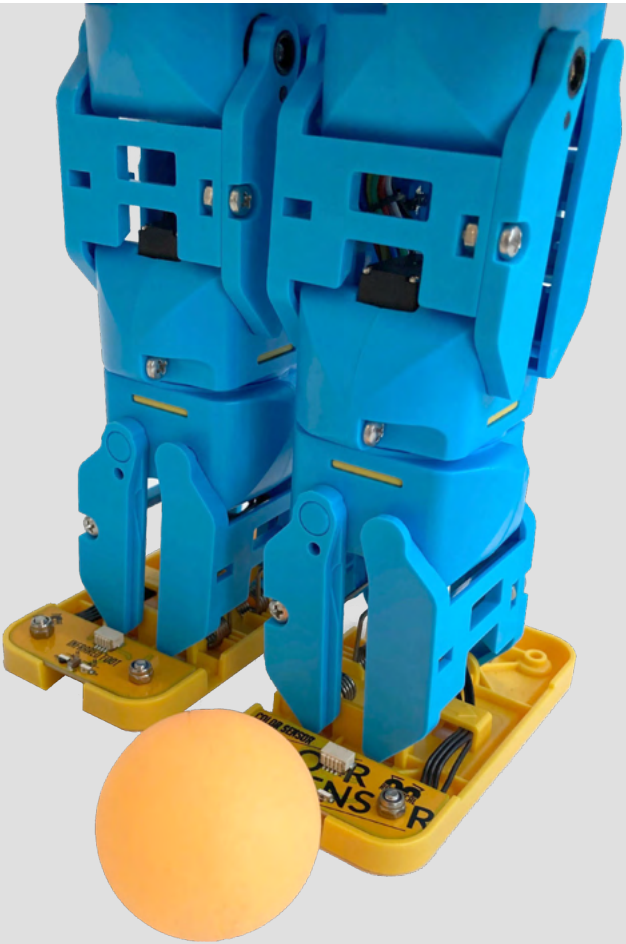


MARTY MAZE

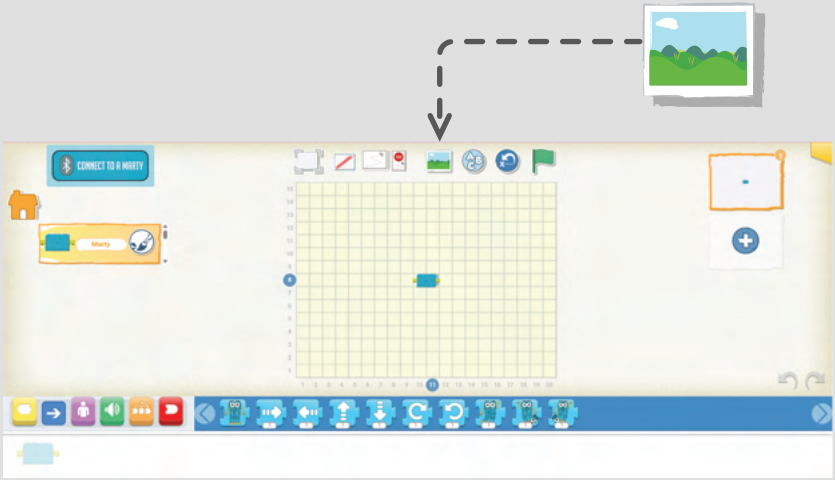
These cards should be completed in numerical order.

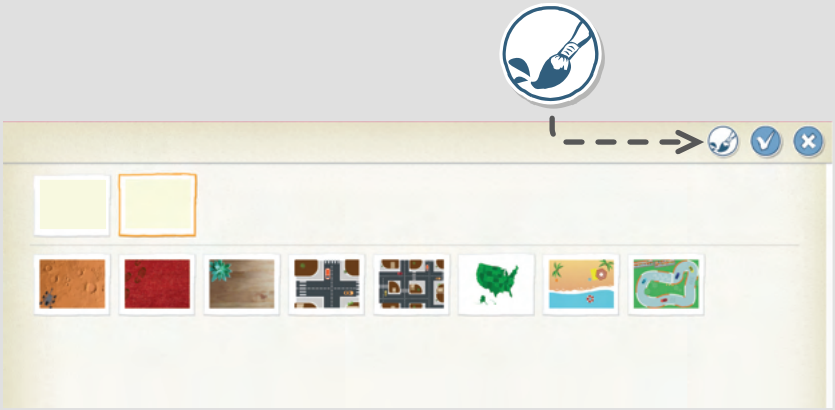
1. Marty Plays Ball 1
2. Marty Plays Ball 2
3. Marty Plays Ball 3
4. Marty Plays Ball 4
5. Marty Plays Ball 5
6. Marty Plays Ball 6
7. Marty Plays Ball 7
8. Marty Plays Ball 8
9. Marty Plays Ball 9
10. Marty Plays Ball 10
11. Marty Plays Ball 11
12. Marty Plays Ball 12

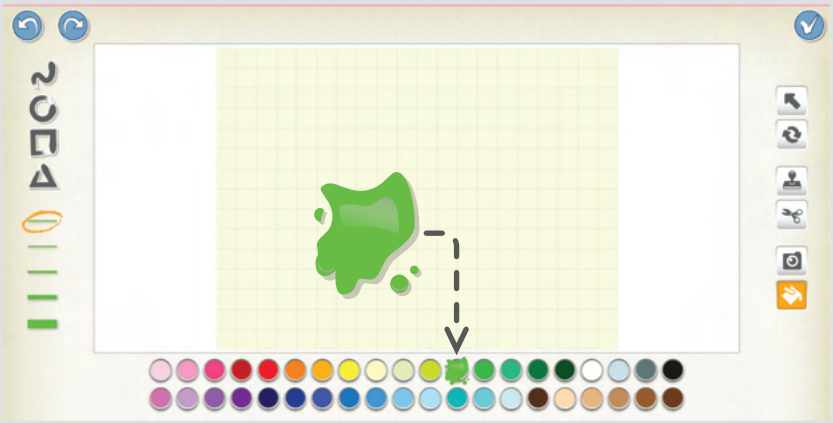
MARTY PLAYS BALL 1

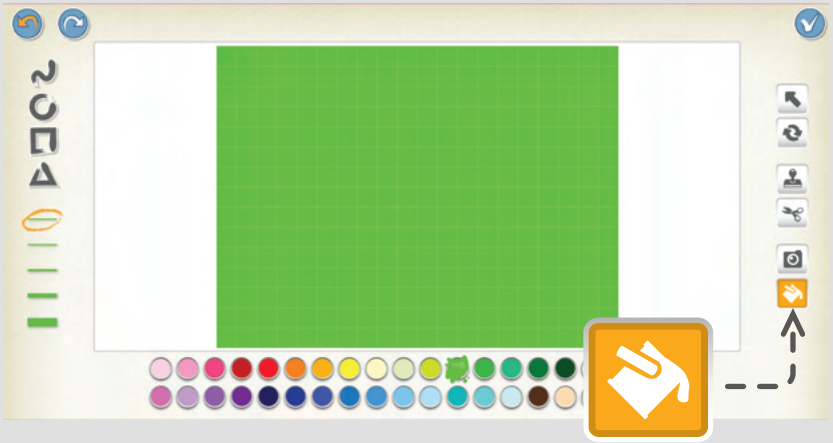


Place ball in front of Marty

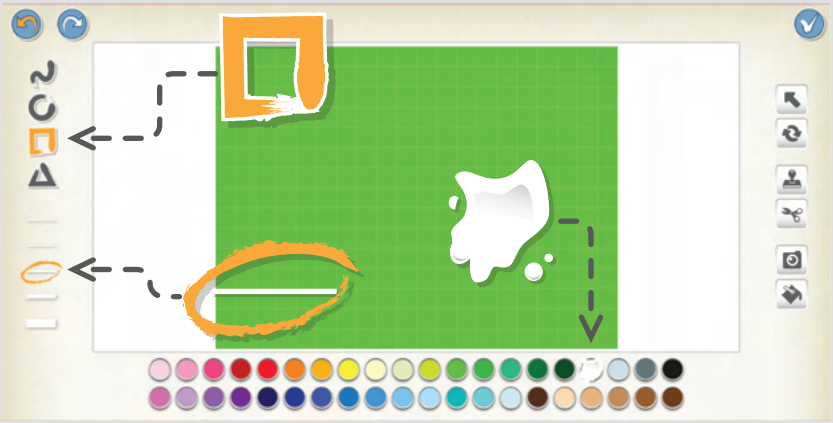

CONNECT TO A MARTY
Marty

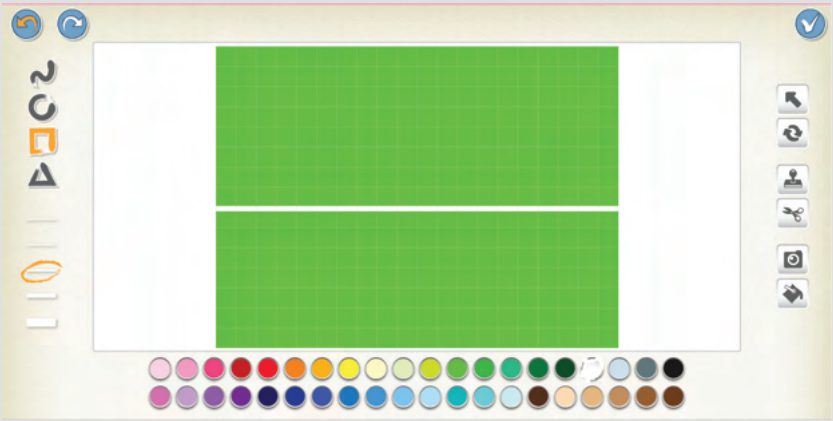


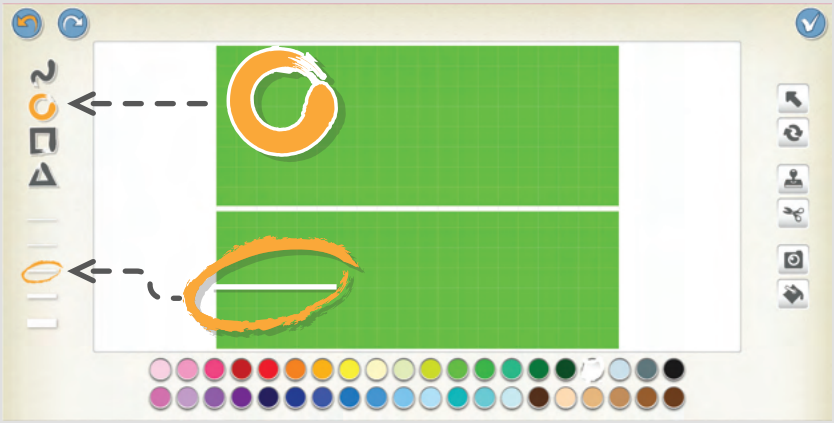


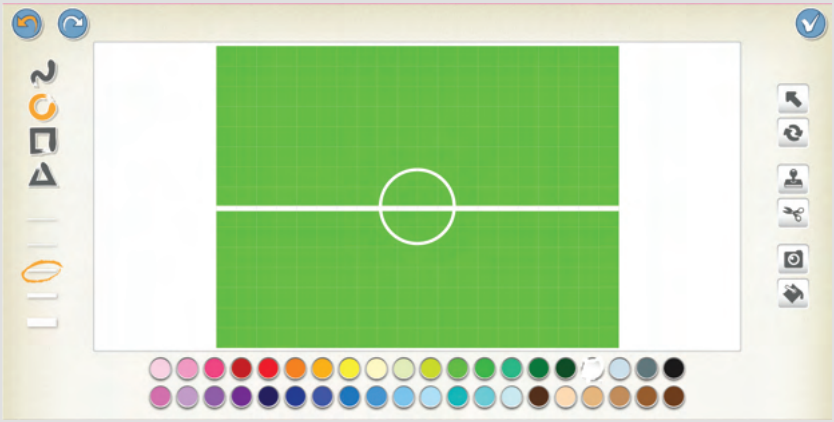


MARTY PLAYS BALL 4



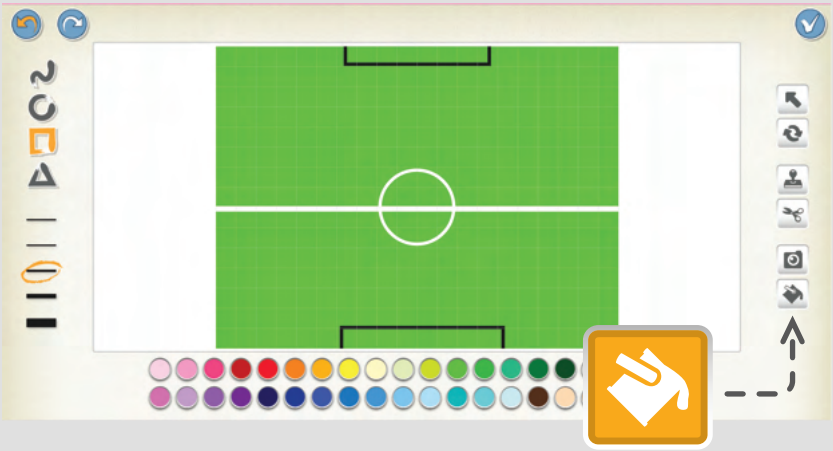


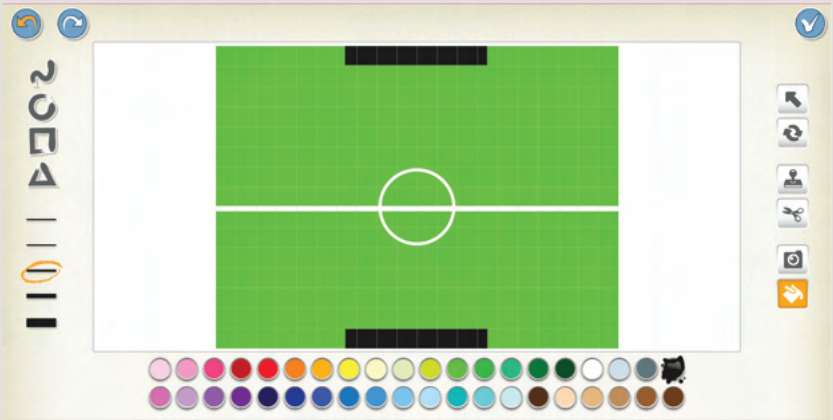




MARTY PLAYS BALL 6

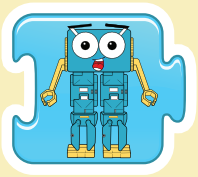
MARTY PLAYS BALL 7



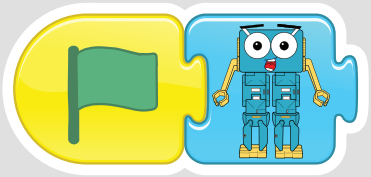


MARTY PLAYS BALL 8

Find



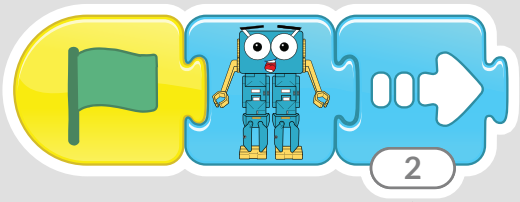
Add

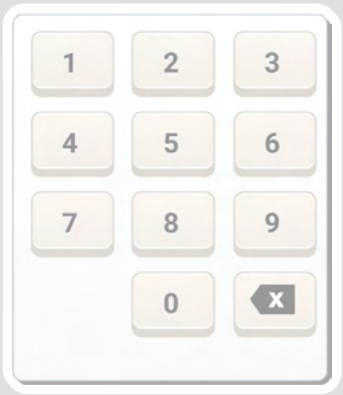


MARTY PLAYS BALL 9

Find

Add

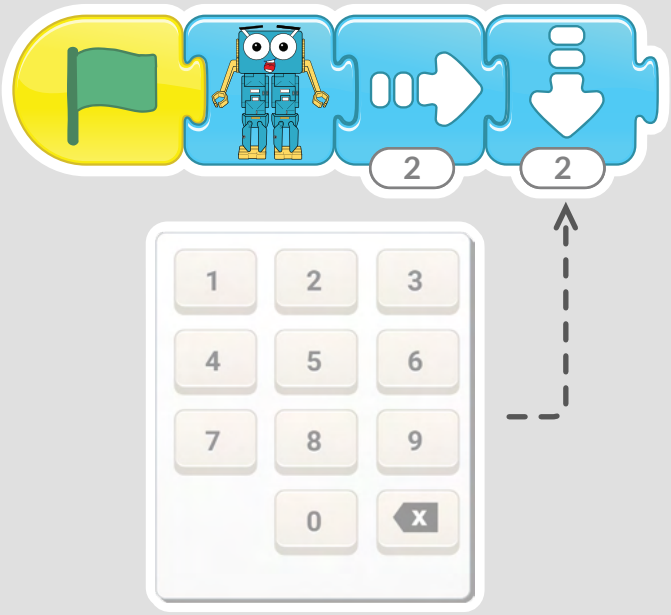




MARTY PLAYS BALL 10

Find

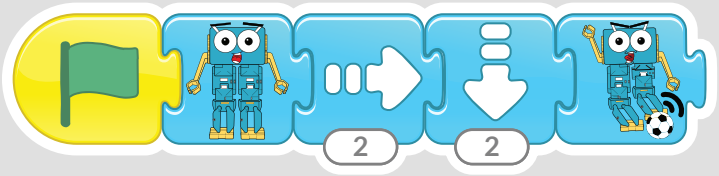
Add



MARTY PLAYS BALL 11

Find

Add



Go

MARTY PLAYS BALL 12

If Marty Scores

If Marty Misses

I CAN

- [ ] I can make Marty **walk forwards?**
- [ ] I can make Marty **walk backwards?**
- [ ] I can make Marty **slide side to side?**
- [ ] I can make Marty **dance?**
- [ ] I can make Marty **kick both feet?**
- [ ] I can make Marty **get from start to finish?**

I CAN

- [ ] I can make Marty's **eyes change?**
- [ ] I can make Marty **wave both arms?**
- [ ] I can make Marty **celebrate?**
- [ ] I can make Marty **play a sound?**
- [ ] I can make Marty **wait?**
- [ ] I can make Marty **repeat a step?**