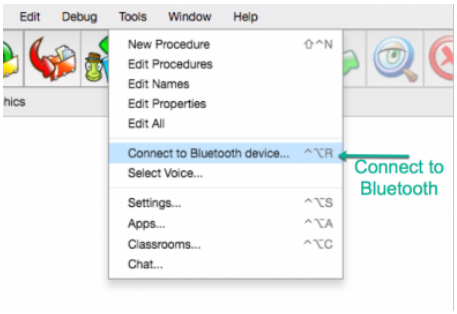
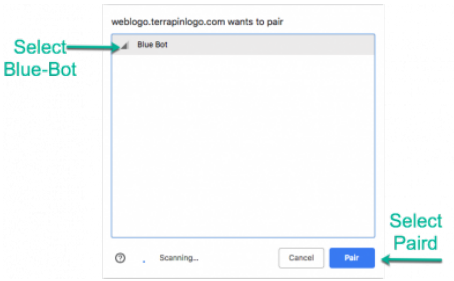
Connecting the Blue-Bot with Logo software

Turn on the Blue-Bot
Log into Terrapin Logo software *
Select Tools
Connect to Bluetooth



Select Blue-Bot
Select Pair



Getting started with Blue-Bot and Logo

Make sure you are connected via Bluetooth.
If you are not sure how to do this please click here

Try these first 3 simple commands. Commands can provide valuable information

Ask the Blue-Bot if it is connected to Bluetooth.
If it is connected it will return true
If not it will return false
true and false conditions is an important coding/programming concept.

```
bluebot?
```

Listener

```
Connected to Blue Bot
> bluebot?
bluebot?
Result: TRUE
```

Check the battery level.
Bluebot will return how much charge the blueblot has with 1.0 being 100 percent charged
this is a great opportunity to talk about decimals, place value and percentage

```
bluebot.battery
```

Listener

```
Connected to Blue Bot
bluebot.battery
Result: 0.5
>
```

Clear the memory.
Bluebot will clear any commands that are in its memory

```
bluebot.clear
```

Listener

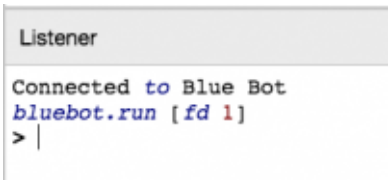
```
Connected to Blue Bot
> bluebot.clear
 bluebot.clear
>
```

Time to get Blue-Bot on the move!

Move that Bot 101! .
To move the bot always start with `bluebot.run`. This command won't do by anything itself. You have to tell Bluebot what to run.

Follow bluebot.run with a space, then an open bracket. Type a Logo command then close bracket. Press return. Try the example shown on the right
`bluebot.run [fd 1]`
press return

```
bluebot.run [fd 1]
```

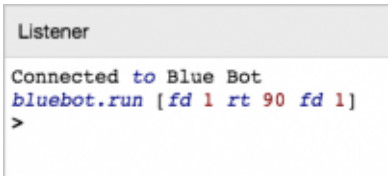


Note: many Logo commands can be entered typing the full command or an abbreviation. This can be very helpful, especially for younger programmers.Click here to find the basic logo commands and their abbreviations.

Lets add some commands !

Multiple Steps .
Lets add another 2 steps to your program. Add the following: `rt 90 fd 1`. Your program should look like the example on the right. Try it!

```
bluebot.run [fd 1 rt 90 fd 1]
```



Blue-Bot/Logo Abbreviations

FORWARD	fd	Blue-Bot moves forward in fixed-size units. A unit of one is about 6 inches or 15 cm). Blue-Bot quickly pauses after each unit of movement. This is great way to see 1-1 correlation.
BACK	bk	Blue-Bot moves backwards in the same way that it moves forward, moving in fixed units. For example bluebot.run [bk 1] would move Bluebot back 1 unit.
LEFT	lt	Blue-Bot turns left 45 or 90 degrees, depending what you tell it to do. For example rt 90 will turn right 90 degrees, or lt 45 will turn left 45 degrees.
RIGHT	rt	Blue-Bot turns right 45 or 90 degrees, depending what you tell it to do. For example rt 90 will turn right 90 degrees, or lt 45 will turn left 45 degrees.
WAIT	*no abbreviation*	This command corresponds to Blue-Bot's Pause button. Blue-Bot pauses in units of about two seconds. Therefore, the input to WAIT (which is a millisecond value) should be a multiple of 2000. Logo rounds wait times to the nearest multiple of two seconds.
REPEAT	*no abbreviation*	Blue-Bot has a simple built-in repeat feature that lets it execute a list of commands between 1 and 16 times. The REPEAT command cannot be nested.

Terrapin Logo is not case sensitive

*Requires Terrapin Logo software. Click here for more information.