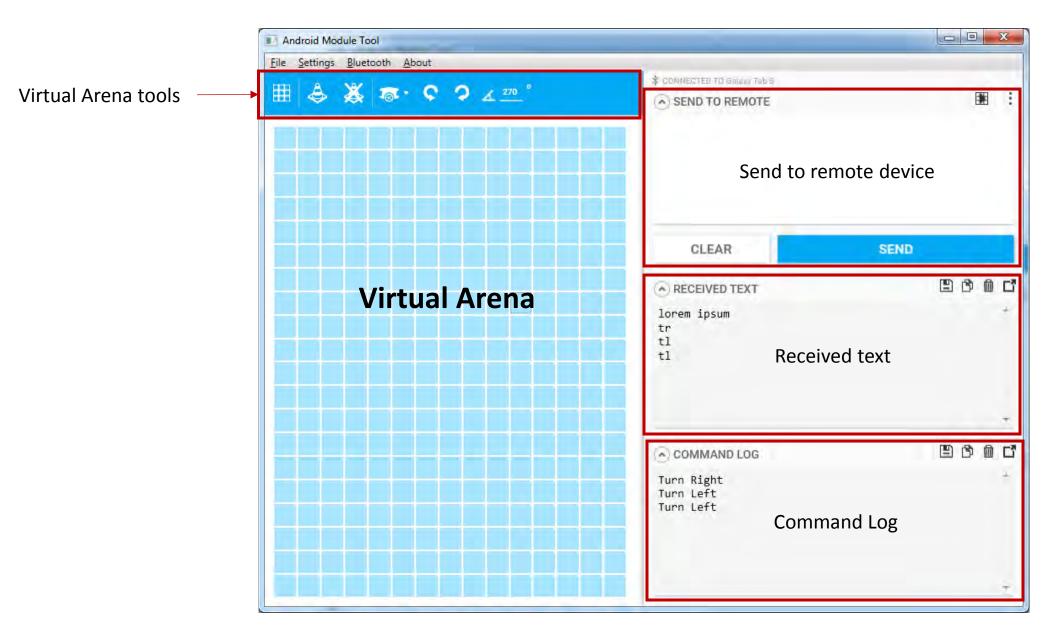
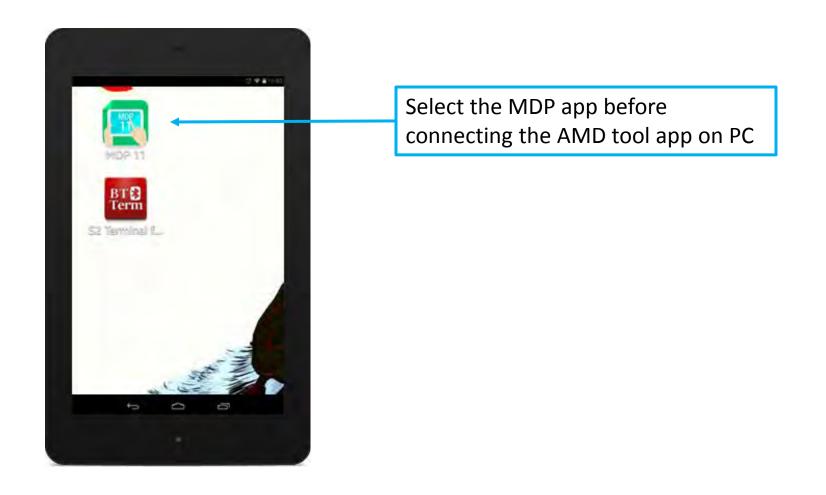
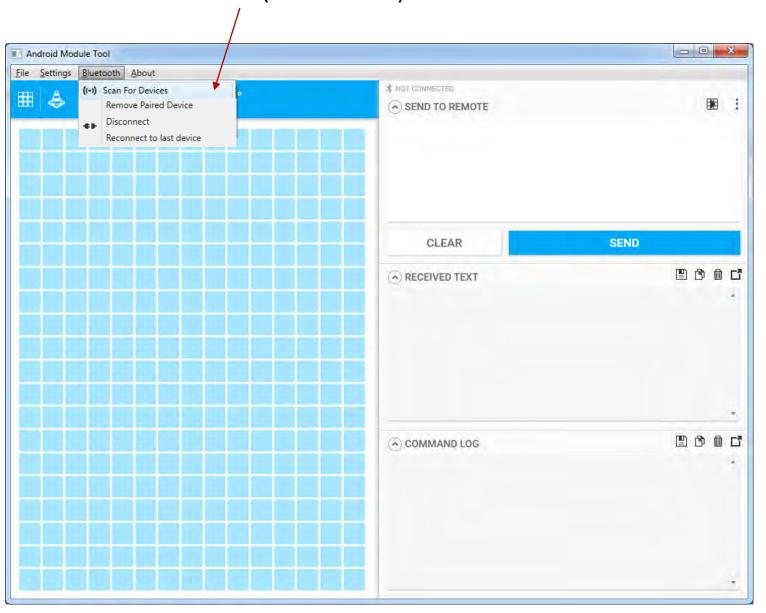
Main Interface Components

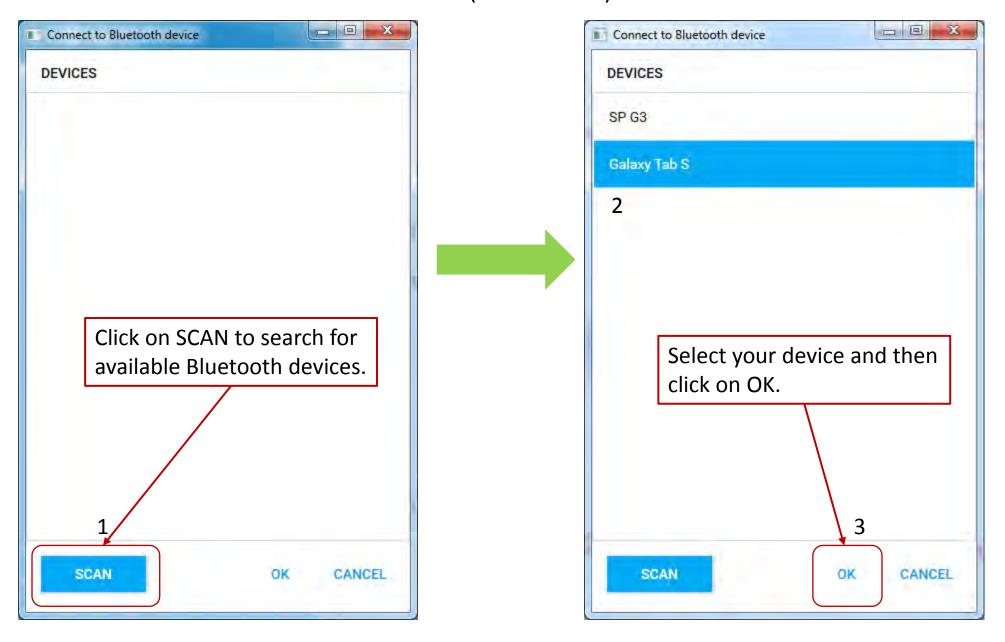


Open the app on your device first.

Alternatively, you can open the "S2 terminal for Bluetooth" Bluetooth terminal emulator program that can be downloaded from the Play Store

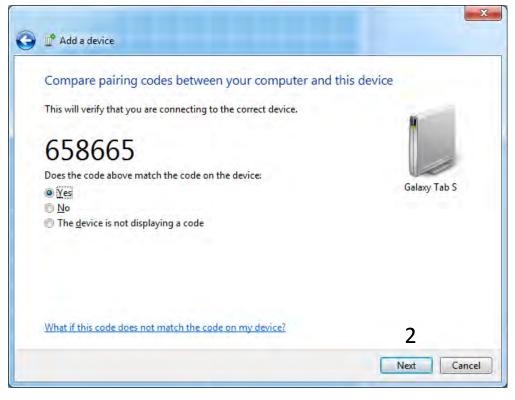




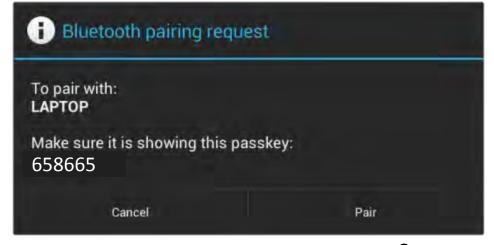


If connecting to the device for the first time. Compare code on the device with this code and click "Next". Also allow the pairing on the device itself.

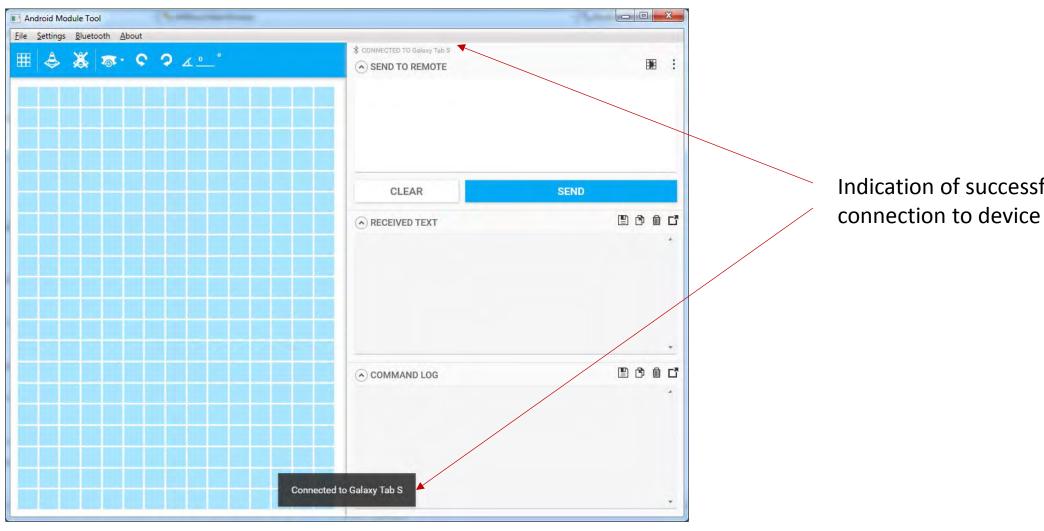




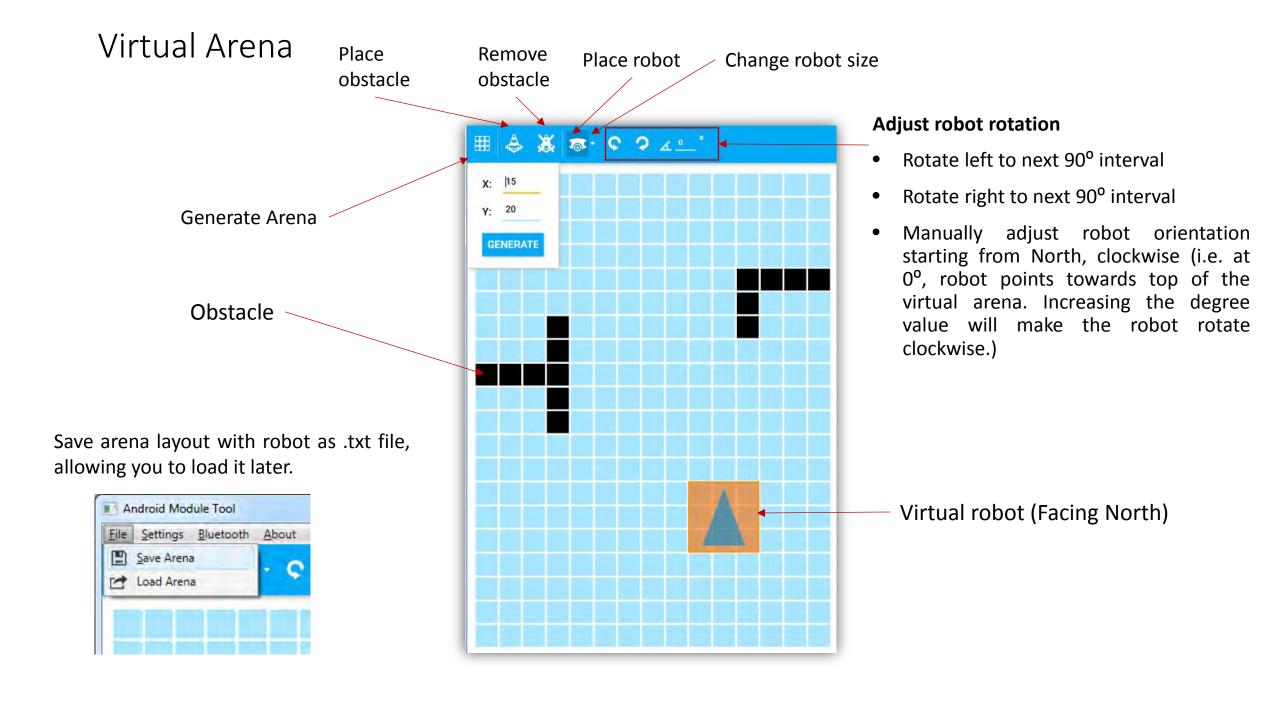
(Or equivalent message)



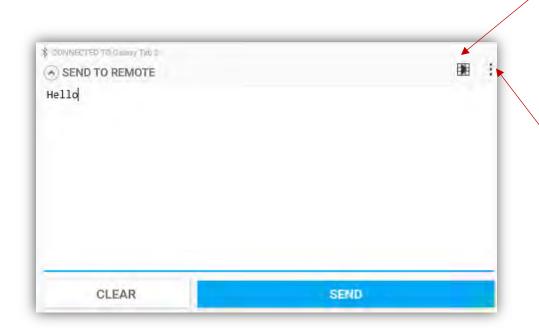
(Or equivalent message)



Indication of successful



Send Text to Remote Device

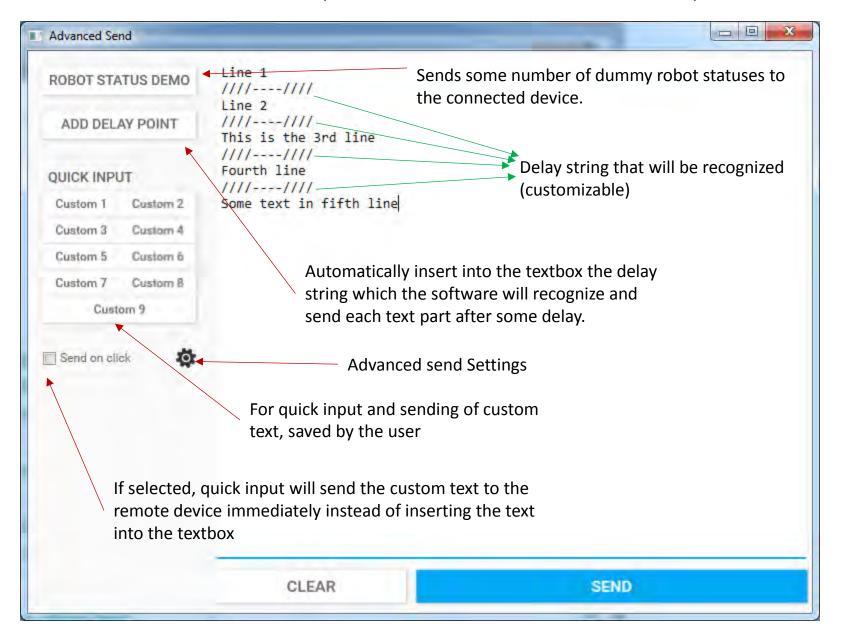


- If toggled, any changes to the virtual arena, including the robot, will let the software to send such arena information to the remote device.
- This will allow you to debug the display of the arena and the robot on your app.
- Format in which the remote device receives the arena information can be edited with custom scripts (Discussed later)

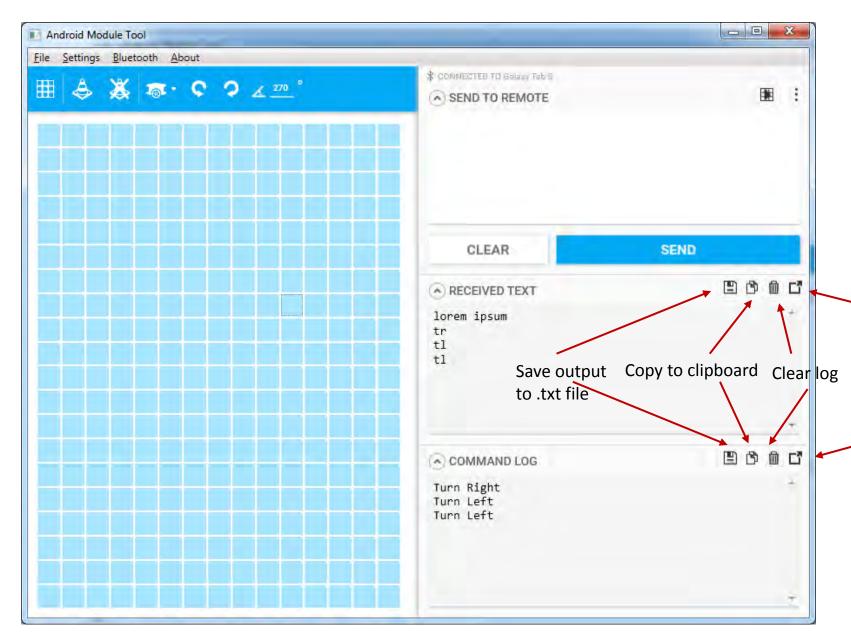
Click to show advanced send functions AND have more space to concentrate on sending text, especially when testing with long string of text.

Connection to device must be established first to use this.

Send Text to Remote Device (Advanced Send Window)



Received Text & Command Log



Received Text

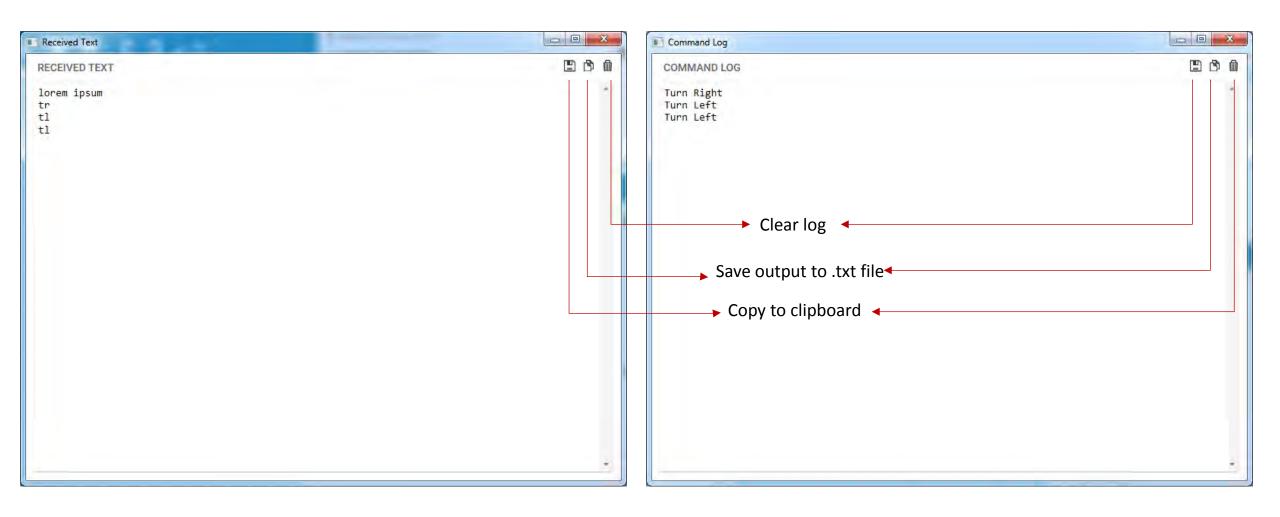
Log of text that the remote device had sent.

Command Log

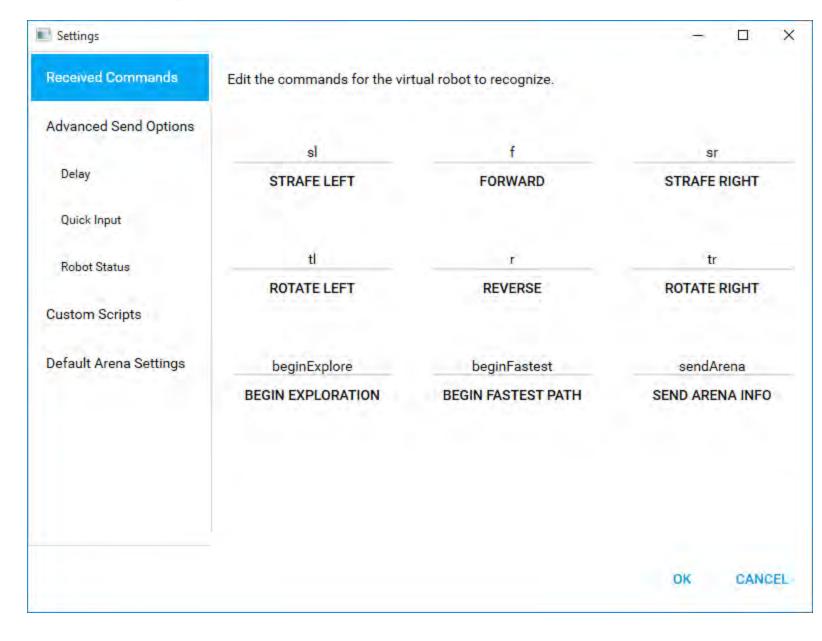
If any received text is a command, the corresponding command will be displayed. The virtual robot will also react accordingly to the command.

Expand to Window to concentrate on receiving text/ checking commands, especially when testing with long string of text.

Received Text & Command Log (Expanded Window)



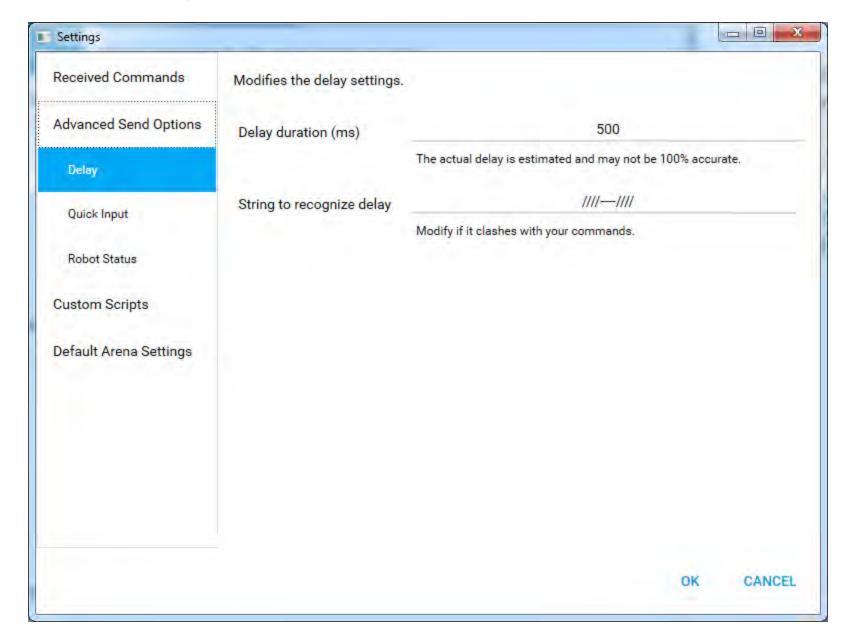
Expanded window to concentrate on receiving text/ checking commands, especially when testing with long string of text.



Allow you to modify the commands for the virtual robot to recognize.

For example if the command for forward is set to "move:forward", whenever the software receives this text, the virtual robot will move forward in the arena.

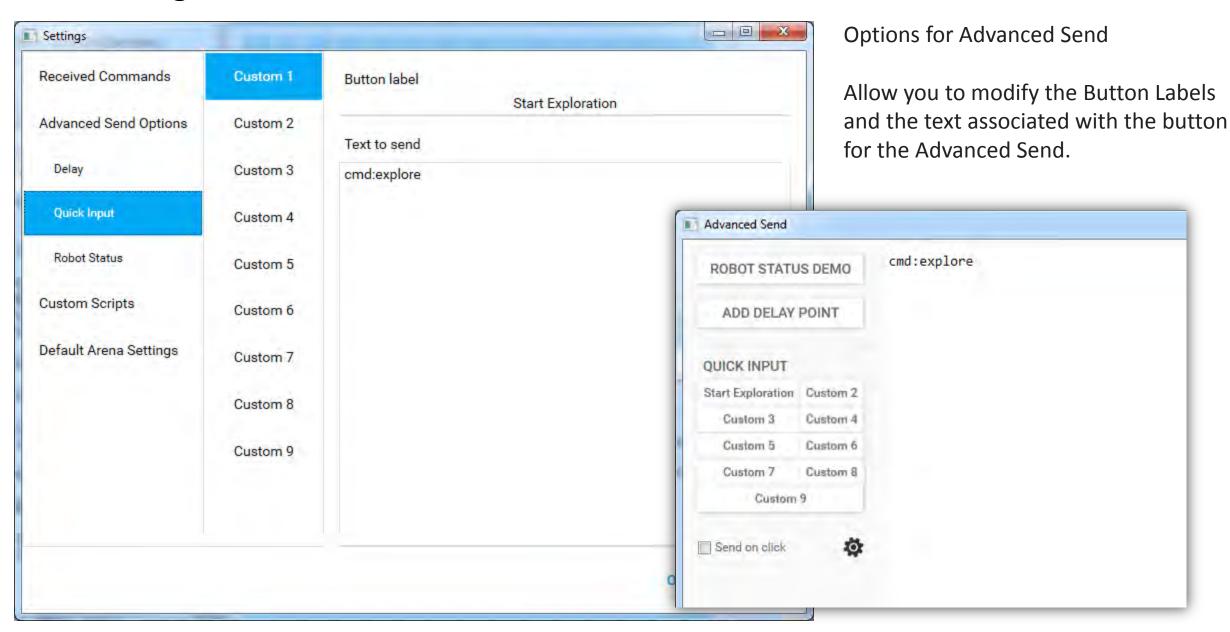
The "Send Arena Info" command will let the software send the arena obstacle and robot position information to the android remote.

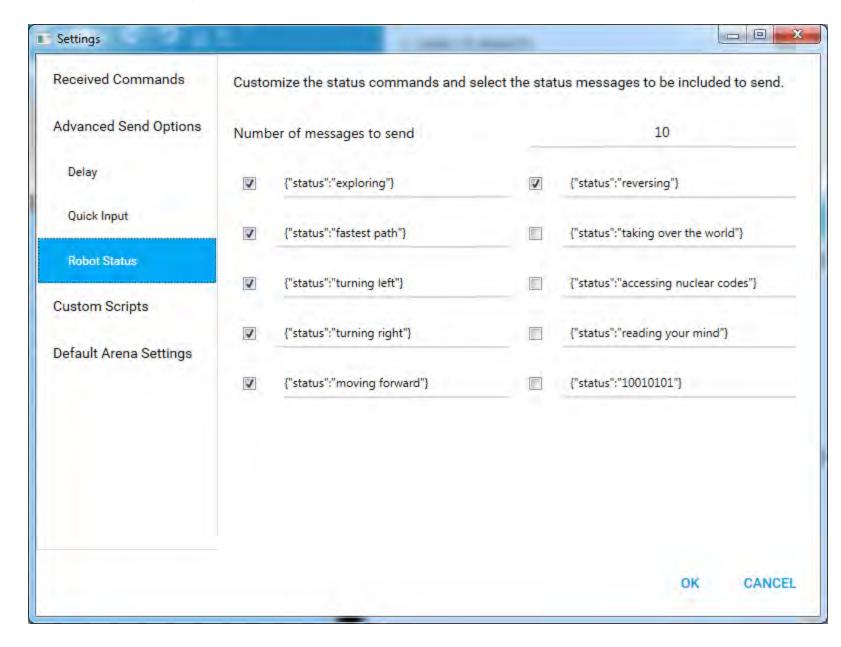


Options for Advanced Send

Allow you to modify the delay duration for the advanced send.

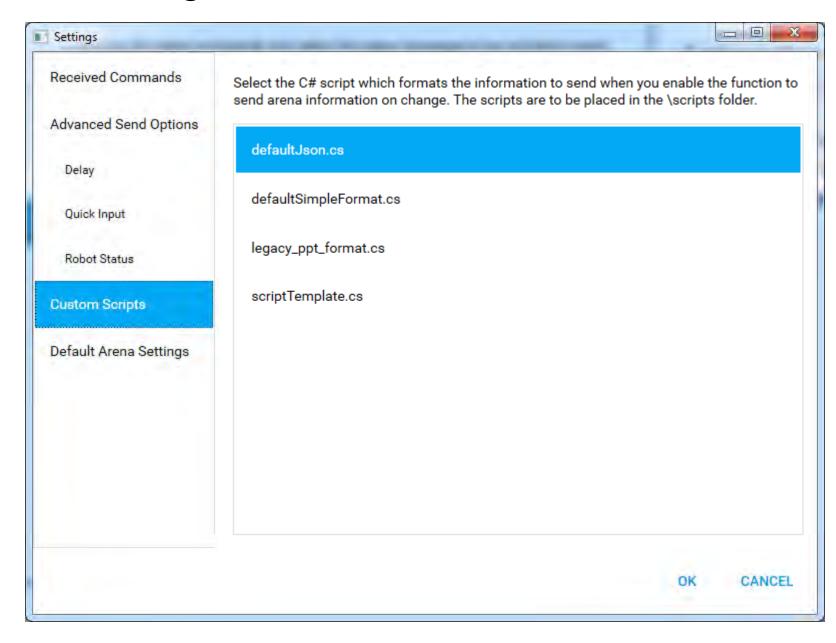
Allow you to modify the string to recognize as a delay, especially if it clashes with the team's commands.





Options for Advanced Send

Customization of the robot status demo. This will remove the format restrictions as the software will send only robot status message specified by the user.



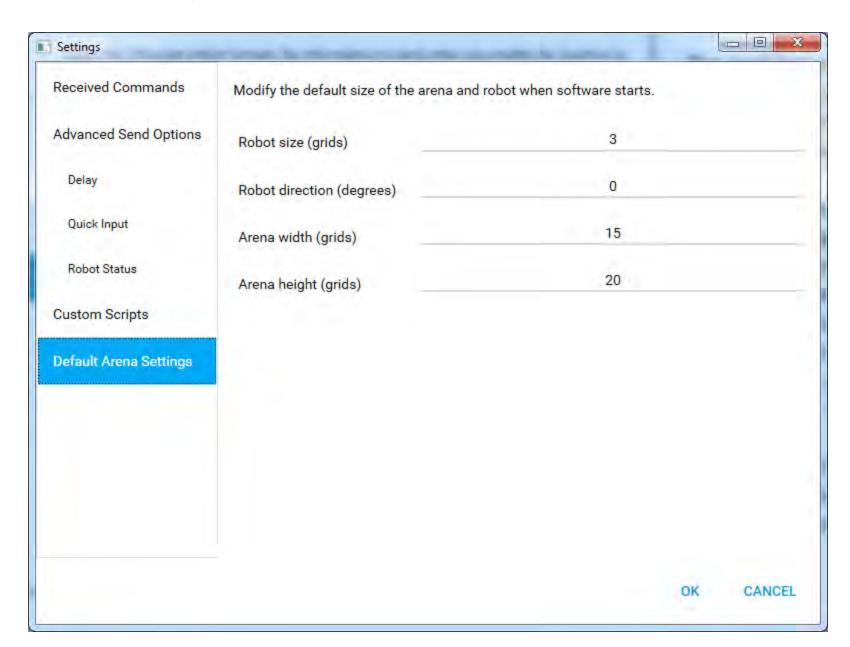
Custom scripts to format arena information that would be sent to remote device.

Instructions on how to create your own scripts are detailed in the 3 example files in "scripts" folder.

"scriptTemplate.cs" is a template file with comments detailing on how to use and implement it.

"defaultJson.cs" and

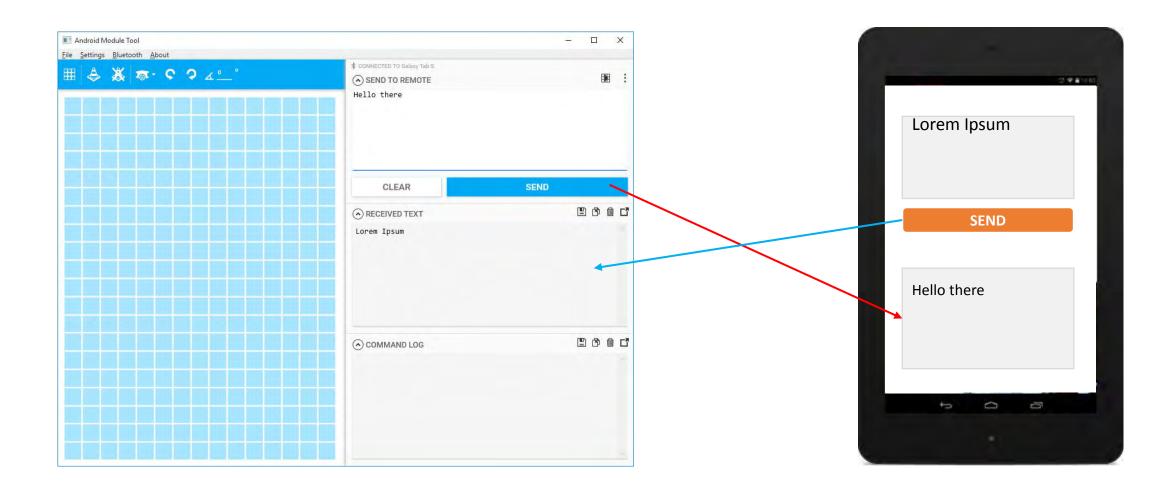
"defaultSimpleFormat.cs" are example
implementations that you can take
reference from or to use.



Default Arena Settings

Adjust the default arena settings that will load on start.

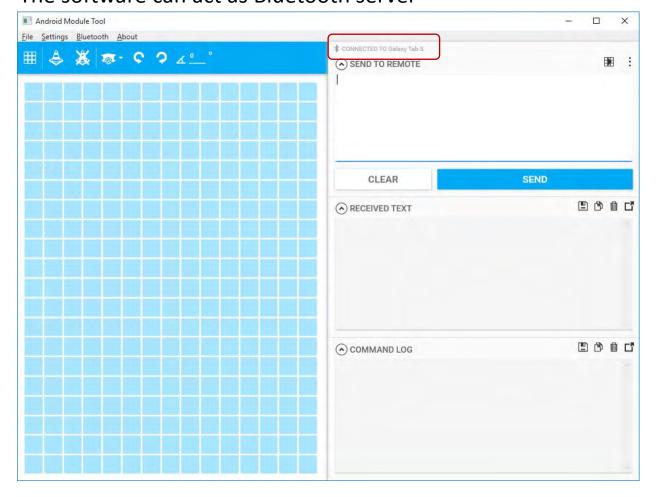
• The Android application (AA) is able to transmit and receive text strings over the Bluetooth serial communication link.



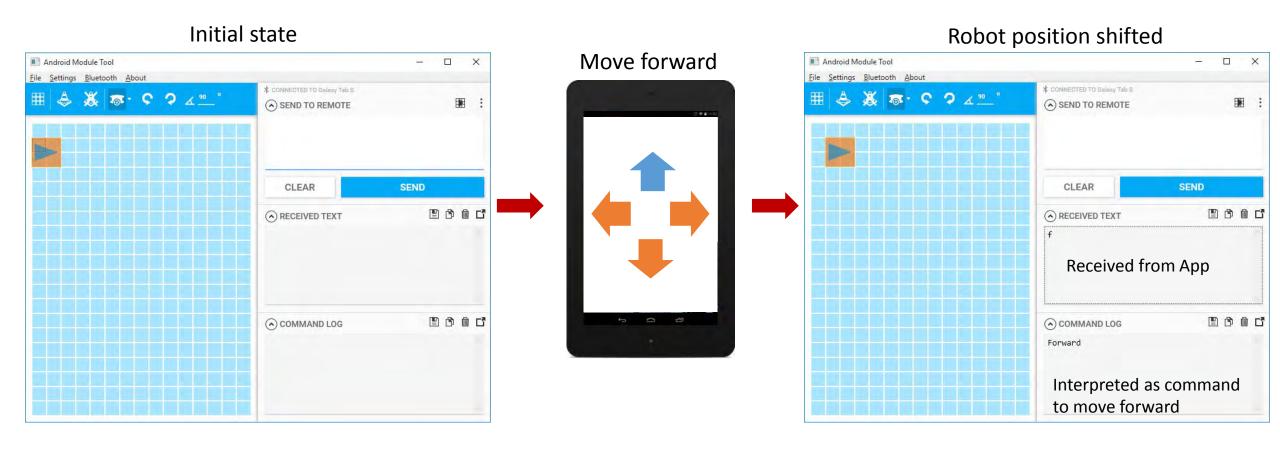
• Functional graphical user interface (GUI) that is able to initiate the scanning, selection and connection with a Bluetooth device.



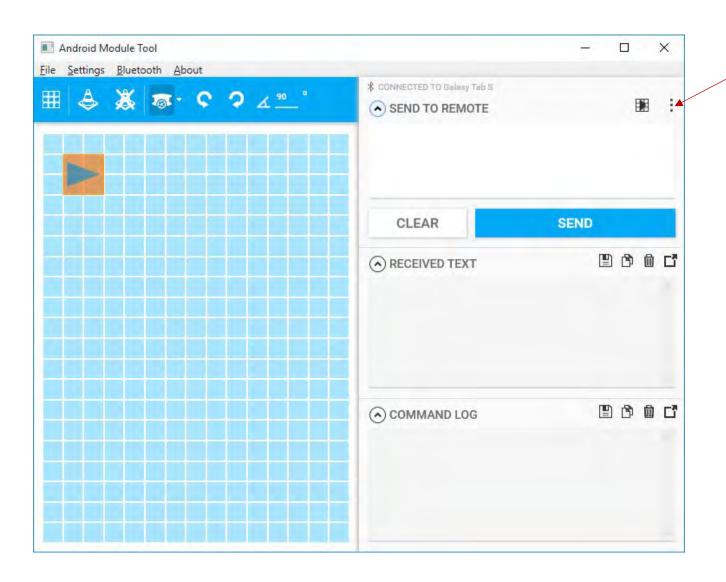
The software can act as Bluetooth server



• Functional GUI that provides interactive control of the robot movement via the Bluetooth link

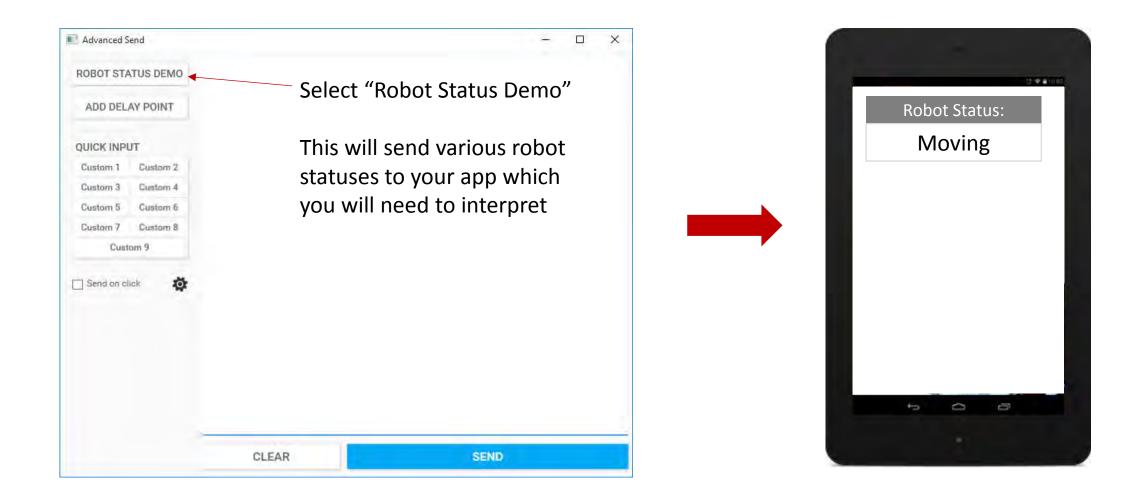


• Functional GUI that indicates the current status of the robot



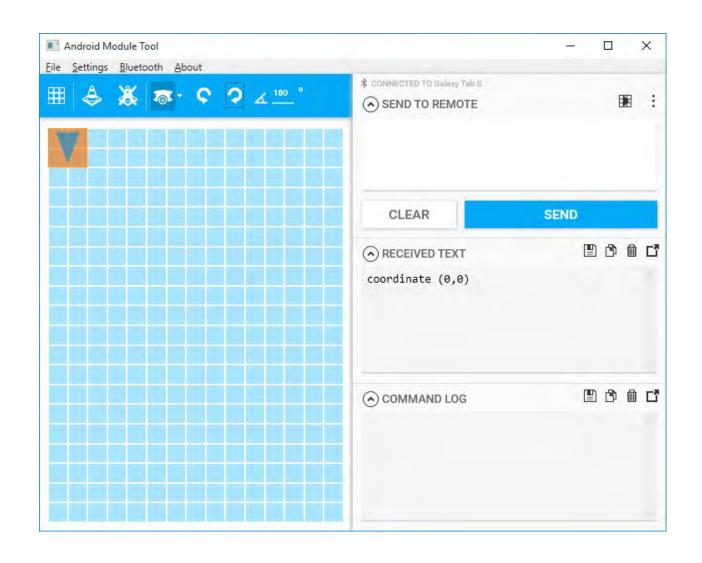
Select this to use advanced send functions

• Functional GUI that indicates the current status of the robot

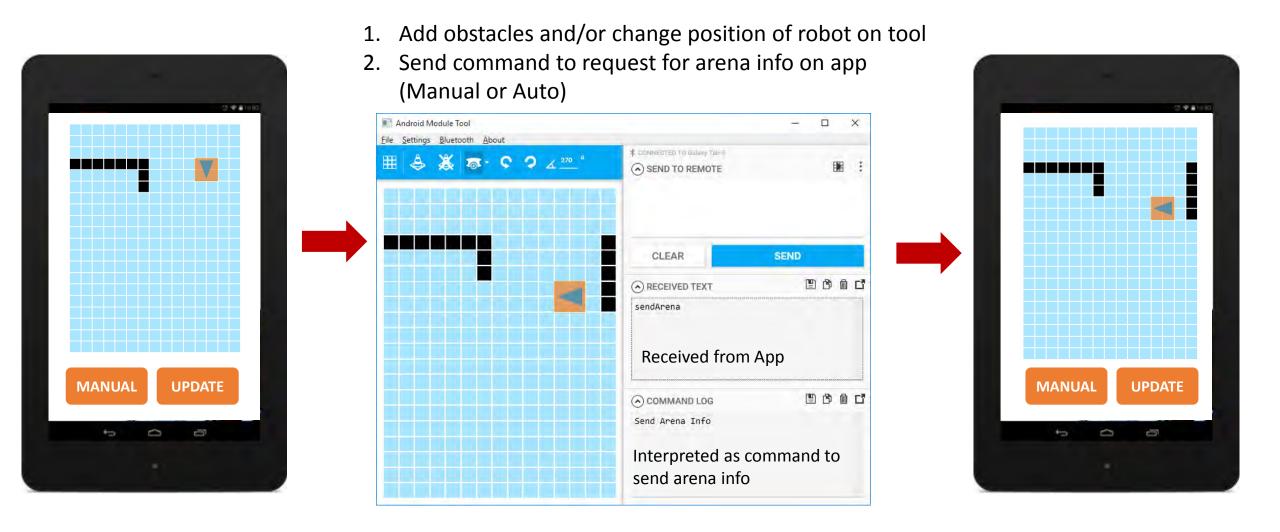


• Update Robot start coordinates

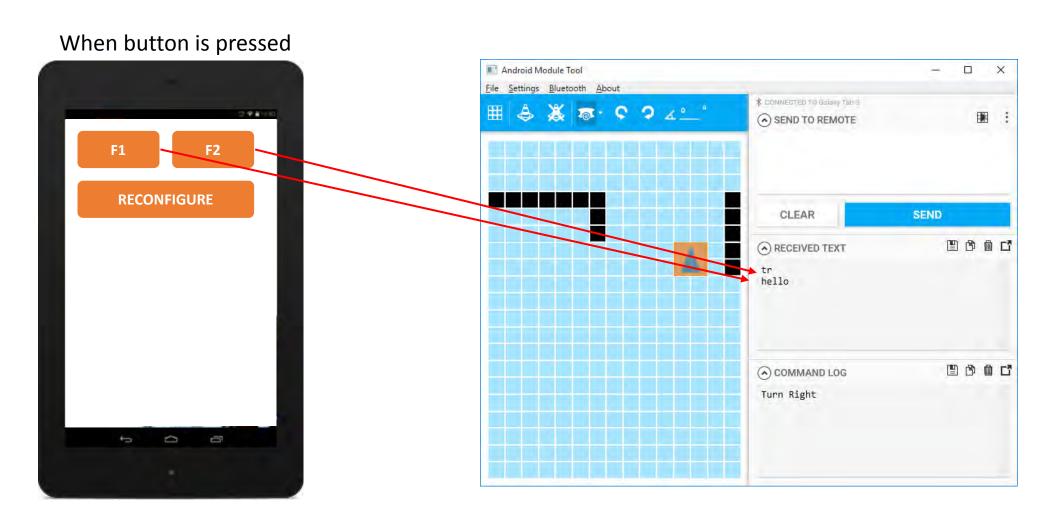




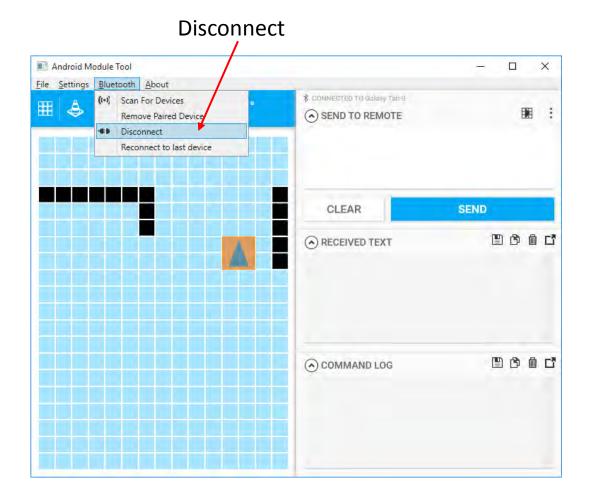
• Functional GUI that provides the selection of Manual or Auto updating of graphical display of the maze environment.



• Functional GUI that provides two buttons that supports persistent user reconfigurable string commands to the robot.



• Robust connectivity with Bluetooth device.



Select "Reconnect to last device" Ensure that there is connection to your app after this.

