

# 16x62 Robot Quick Reference

## Basic Commands

### Methods of RobotController (for talking to the Robot)

```
int serialOpen()  
  
int serialClose()  
  
int turnSonarsOn()  
  
int turnSonarsOff()  
  
int GS()  
  
int setVel(int leftVel, int rightVel)  
  
int killMotors()  
  
int setAccel(int leftAccel, int rightAccel)  
  
int configureSonars(int firingRate, int[] sonarOrder)  -- 16 elements!!!  
  
int setTimeout(int timeout)
```

### Sensor Information: State\_Array in RobotController

Index 1-16: The sixteen sonar values, starting out front, going counter-clockwise  
Index 17: X integrated position  
Index 18: Y integrated position  
Index 19: Theta integrated position  
Index 20: Right wheel measured velocity  
Index 21: Left wheel measured velocity  
Index 22: Bumper status

## Other Commands

**SonarConsole** - makes a sonar graphic display

DrawSonars(your\_RobotController) - method that redraws the sonars.