com._604robotics.tcpcommunicator

Class TcpCommunicator

java.lang.Object
    com._604robotics.tcpcommunicator.TcpCommunicator

All Implemented Interfaces:

java.lang.Runnable

```
public class TcpCommunicator
extends java.lang.Object
implements java.lang.Runnable
```

Server class for the vision data transfer protocol.

Constructor Summary

Constructors

Constructor and Description
`TcpCommunicator()` Initializes a new TcpCommunicator.
`TcpCommunicator(java.lang.String ip)` Initializes a new TcpCommunicator with the specified robot IP address.
`TcpCommunicator(java.lang.String ip, int port)` Initializes a new TcpCommunicator with the specified robot IP address and port.
`TcpCommunicator(java.lang.String ip, int port, boolean debug)` Initializes a new TcpCommunicator with the specified robot IP address, port, and debug mode.

Method Summary

Methods

Modifier and Type	Method and Description
`void`	`down()` Disables the TcpCommunicator.
`void`	`forceQuit()` Interrupts the TcpCommunicator thread, forcing it to quit.
`boolean`	`isEnabled()` Checks whether or not the TcpCommunicator has been enabled.
`boolean`	`isRunning()` Checks whether or not the TcpCommunicator thread is currently running.
`static void`	`main(java.lang.String[] args)` For testing purposes.
`void`	`run()` Don't use this to launch the server; use up() instead.
`void`	`up()` Enables the TcpCommunicator, launching the thread.
`void`	`writePoints(Target[] points)` Writes the specified points to the stream.

Methods inherited from class java.lang.Object

`clone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait`

Constructor Detail

TcpCommunicator

```
public TcpCommunicator()
```

Initializes a new TcpCommunicator. By default, the robot IP address is set to "10.6.4.2", the port is set to 3333, and the debug mode is set to TRUE.

TcpCommunicator

```
public TcpCommunicator(java.lang.String ip)
```

Initializes a new TcpCommunicator with the specified robot IP address. By default, the port is set to 3333 and the debug mode is set to TRUE.

Parameters:

`ip` - The IP address of the robot.

TcpCommunicator

```
public TcpCommunicator(java.lang.String ip,
               int port)
```

Initializes a new TcpCommunicator with the specified robot IP address and port. By default, the debug mode is set to TRUE.

Parameters:

`ip` - The IP address of the robot.

`port` - The port to connect to.

TcpCommunicator

```
public TcpCommunicator(java.lang.String ip,
               int port,
               boolean debug)
```

Initializes a new TcpCommunicator with the specified robot IP address, port, and debug mode.

Parameters:

`ip` - The IP address of the robot.

`port` - The port to connect to.

`debug` - Print debug info?

Method Detail

isEnabled

```
public boolean isEnabled()
```

Checks whether or not the TcpCommunicator has been enabled.

Returns:

Whether or not the TcpCommunicator has been enabled.

isRunning

```
public boolean isRunning()
```

Checks whether or not the TcpCommunicator thread is currently running.

Returns:

Whether or not the TcpCommunicator thread is currently running.

up

```
public void up()
```

Enables the TcpCommunicator, launching the thread.

down

```
public void down()
```

Disables the TcpCommunicator.

forceQuit

```
public void forceQuit()
```

Interrupts the TcpCommunicator thread, forcing it to quit. Use only in emergencies!

writePoints

```
public void writePoints(Target[] points)
```

Writes the specified points to the stream. If there is no robot currently connected, it fails silently and discards the points into the ether.

Parameters:

`points` - An array of Targets to write.

run

```
public void run()
```

Don't use this to launch the server; use up() instead. This implements the run() method of type Runnable, allowing this to be run as a thread. For internal use!

Specified by:

`run` in interface `java.lang.Runnable`

main

```
public static void main(java.lang.String[] args)
```

For testing purposes. Run this as an application, and it will connect to 127.0.0.1 and stream arbitrary data for testing purposes.

Parameters:

`args` - Command-line arguments. Not currently used.

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