hitchBOT

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Chapter 1

Documentation

View the documentation for this project at the following links:

- LaTeX
- HTML

This documentation is automatically generated with Doxygen

> Doxyfile is a project which when used with Doxygen will autogenerate the documentation for this project.

Chapter 2

hitchBOT

Chapter 3

File Index

3.1 File List

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Chapter 4

File Documentation

4.1 hitchBOT/documentation/README.md File Reference

4.2 hitchBOT/README.md File Reference

4.3 hitchBOT/GPS Module/GPStest/GPStest.ino File Reference

```
#include "WProgram.h"
#include "NewSoftSerial.h"
```

Macros

- #define powerpin 4
- #define GPSRATE 4800
- #define BUFFSIZ 90

Functions

- void setup ()
- uint32_t parsedecimal (char *str)
- void readline (void)
- void loop ()

Variables

- NewSoftSerial mySerial = NewSoftSerial(2, 3)
- char buffer [BUFFSIZ]
- char * parseptr
- char buffidx
- uint8_t hour
- uint8_t minute
- uint8_t second

- uint8_t year
- uint8_t month
- uint8_t date
- uint32_t latitude
- uint32_t longitude
- uint8_t groundspeed
- uint8_t trackangle
- char latdir
- char longdir
- char status

4.3.1 Macro Definition Documentation

4.3.1.1 #define BUFFSIZ 90

Definition at line 32 of file GPStest.ino.

4.3.1.2 #define GPSRATE 4800

Definition at line 27 of file GPStest.ino.

4.3.1.3 #define powerpin 4

Definition at line 23 of file GPStest.ino.

4.3.2 Function Documentation

4.3.2.1 void loop ( )

Definition at line 100 of file GPStest.ino.

4.3.2.2 uint32_t parsedecimal (char * *str*)

Definition at line 68 of file GPStest.ino.

4.3.2.3 void readline (void)

Definition at line 81 of file GPStest.ino.

4.3.2.4 void setup ( )

Definition at line 47 of file GPStest.ino.

4.3.3 Variable Documentation

4.3.3.1 char buffer[BUFFSIZ]

Definition at line 36 of file GPStest.ino.

4.3.3.2 char buffidx

Definition at line 38 of file GPStest.ino.

4.3.3.3 uint8_t date

Definition at line 41 of file GPStest.ino.

4.3.3.4 uint8_t groundspeed

Definition at line 43 of file GPStest.ino.

4.3.3.5 uint8_t hour

Definition at line 41 of file GPStest.ino.

4.3.3.6 char latdir

Definition at line 44 of file GPStest.ino.

4.3.3.7 uint32_t latitude

Definition at line 42 of file GPStest.ino.

4.3.3.8 char longdir

Definition at line 44 of file GPStest.ino.

4.3.3.9 uint32_t longitude

Definition at line 42 of file GPStest.ino.

4.3.3.10 uint8_t minute

Definition at line 41 of file GPStest.ino.

4.3.3.11 uint8_t month

Definition at line 41 of file GPStest.ino.

4.3.3.12 NewSoftSerial mySerial = NewSoftSerial(2, 3)

Definition at line 19 of file GPStest.ino.

4.3.3.13 char* parseptr

Definition at line 37 of file GPStest.ino.

4.3.3.14 uint8_t second

Definition at line 41 of file GPStest.ino.

4.3.3.15 char status

Definition at line 45 of file GPStest.ino.

4.3.3.16 uint8_t trackangle

Definition at line 43 of file GPStest.ino.

4.3.3.17 uint8_t year

Definition at line 41 of file GPStest.ino.

4.4 hitchBOT/old code/GPS-shield-RMC-test-sketch-master/GPS-shield-RMC-test-sketch-master/GPStest_RMC/GPStest_RMC.ino File Reference

```
#include "WProgram.h"
#include "NewSoftSerial.h"
```

Macros

- #define powerpin 4
- #define GPSRATE 4800
- #define BUFFSIZ 90

Functions

- void setup ()
- uint32_t parsedecimal (char *str)
- void readline (void)
- void loop ()

Variables

- NewSoftSerial mySerial = NewSoftSerial(2, 3)
- char buffer [BUFFSIZ]
- char * parseptr
- char buffidx

- uint8_t hour
- uint8_t minute
- uint8_t second
- uint8_t year
- uint8_t month
- uint8_t date
- uint32_t latitude
- uint32_t longitude
- uint8_t groundspeed
- uint8_t trackangle
- char latdir
- char longdir
- char status

4.4.1 Macro Definition Documentation

4.4.1.1 #define BUFFSIZ 90

Definition at line 32 of file GPStest_RMC.ino.

4.4.1.2 #define GPSRATE 4800

Definition at line 27 of file GPStest_RMC.ino.

4.4.1.3 #define powerpin 4

Definition at line 23 of file GPStest_RMC.ino.

4.4.2 Function Documentation

4.4.2.1 void loop ( )

Definition at line 100 of file GPStest_RMC.ino.

4.4.2.2 uint32_t parsedecimal (char * *str*)

Definition at line 68 of file GPStest_RMC.ino.

4.4.2.3 void readline (void)

Definition at line 81 of file GPStest_RMC.ino.

4.4.2.4 void setup ( )

Definition at line 47 of file GPStest_RMC.ino.

4.4.3 Variable Documentation

4.4.3.1 char buffer[BUFFSIZ]

Definition at line 36 of file GPStest_RMC.ino.

4.4.3.2 char buffidx

Definition at line 38 of file GPStest_RMC.ino.

4.4.3.3 uint8_t date

Definition at line 41 of file GPStest_RMC.ino.

4.4.3.4 uint8_t groundspeed

Definition at line 43 of file GPStest_RMC.ino.

4.4.3.5 uint8_t hour

Definition at line 41 of file GPStest_RMC.ino.

4.4.3.6 char latdir

Definition at line 44 of file GPStest_RMC.ino.

4.4.3.7 uint32_t latitude

Definition at line 42 of file GPStest_RMC.ino.

4.4.3.8 char longdir

Definition at line 44 of file GPStest_RMC.ino.

4.4.3.9 uint32_t longitude

Definition at line 42 of file GPStest_RMC.ino.

4.4.3.10 uint8_t minute

Definition at line 41 of file GPStest_RMC.ino.

4.4.3.11 uint8_t month

Definition at line 41 of file GPStest_RMC.ino.

4.4.3.12 NewSoftSerial mySerial = NewSoftSerial(2, 3)

Definition at line 19 of file GPStest_RMC.ino.

4.4.3.13 char* parseptr

Definition at line 37 of file GPStest_RMC.ino.

4.4.3.14 uint8_t second

Definition at line 41 of file GPStest_RMC.ino.

4.4.3.15 char status

Definition at line 45 of file GPStest_RMC.ino.

4.4.3.16 uint8_t trackangle

Definition at line 43 of file GPStest_RMC.ino.

4.4.3.17 uint8_t year

Definition at line 41 of file GPStest_RMC.ino.

4.5 hitchBOT/old code/matrixdemo/matrixdemo.ino File Reference

```
#include "HT1632.h"
```

Macros

- #define DATA 2
- #define WR 3
- #define CS 4
- #define CS2 5

Functions

- void setup ()
- void loop ()

Variables

- HT1632LEDMatrix matrix = HT1632LEDMatrix(DATA, WR, CS, CS2)

4.5.1 Macro Definition Documentation

4.5.1.1 #define CS 4

Definition at line 5 of file matrixdemo.ino.

4.5.1.2 #define CS2 5

Definition at line 6 of file matrixdemo.ino.

4.5.1.3 #define DATA 2

Definition at line 3 of file matrixdemo.ino.

4.5.1.4 #define WR 3

Definition at line 4 of file matrixdemo.ino.

4.5.2 Function Documentation

4.5.2.1 void loop ( )

Definition at line 21 of file matrixdemo.ino.

4.5.2.2 void setup ( )

Definition at line 13 of file matrixdemo.ino.

4.5.3 Variable Documentation

4.5.3.1 HT1632LEDMatrix matrix = HT1632LEDMatrix(DATA, WR, CS, CS2)

Definition at line 11 of file matrixdemo.ino.

4.6 hitchBOT/old code/scrolldemo/scrolldemo.ino File Reference

```
#include "HT1632.h"
```

Macros

- #define DATA 2
- #define WR 3
- #define CS 4
- #define CS2 5

Functions

- void setup ()
- void loop ()

Variables

- HT1632LEDMatrix matrix = HT1632LEDMatrix(DATA, WR, CS, CS2)

4.6.1 Macro Definition Documentation

4.6.1.1 #define CS 4

Definition at line 5 of file scrolldemo.ino.

4.6.1.2 #define CS2 5

Definition at line 6 of file scrolldemo.ino.

4.6.1.3 #define DATA 2

Definition at line 3 of file scrolldemo.ino.

4.6.1.4 #define WR 3

Definition at line 4 of file scrolldemo.ino.

4.6.2 Function Documentation

4.6.2.1 void loop ( )

Definition at line 18 of file scrolldemo.ino.

4.6.2.2 void setup ( )

Definition at line 13 of file scrolldemo.ino.

4.6.3 Variable Documentation

4.6.3.1 HT1632LEDMatrix matrix = HT1632LEDMatrix(DATA, WR, CS, CS2)

Definition at line 11 of file scrolldemo.ino.

4.7 hitchBOT/old code/sketch_jul22a/sketch_jul22a.ino File Reference

```
#include <SoftwareSerial.h>
```

Functions

- SoftwareSerial GPRS (7, 8)
- void setup ()
- void loop ()
- void clearBufferArray ()

Variables

- unsigned char buffer [64]
- int count =0

4.7.1 Function Documentation

4.7.1.1 void clearBufferArray ( )

Definition at line 37 of file sketch_jul22a.ino.

4.7.1.2 SoftwareSerial GPRS (7 , 8)

4.7.1.3 void loop ( )

Definition at line 19 of file sketch_jul22a.ino.

4.7.1.4 void setup ( )

Definition at line 12 of file sketch_jul22a.ino.

4.7.2 Variable Documentation

4.7.2.1 unsigned char buffer[64]

Definition at line 10 of file sketch_jul22a.ino.

4.7.2.2 int count =0

Definition at line 11 of file sketch_jul22a.ino.

4.8 hitchBOT/old code/wifiModule/wifiModule.ino File Reference

```
#include <SPI.h>
#include <WiFi.h>
#include <Twitter.h>
#include <TVout.h>
#include <fontALL.h>
#include <avr/pgmspace.h>
```

Functions

- Twitter twitter ("1079816048-TZlJ9cdVGQJqrxwDHZ3NH1WdOF7JW8a8XxhnCZN")
- void setup ()
- void loop ()
- void initOverlay ()

Variables

- TVout tv
- unsigned char x
- unsigned char y
- unsigned char originx = 5
- unsigned char originy = 80
- unsigned char plotx = originx
- unsigned char ploty = 40
- char s [32]
- unsigned int n = 0
- int index = 0
- int messageLen = 32
- prog_char string_0[] PROGMEM = "But we are for wild beasts! Let us throw us in my way."
- PROGMEM const char * string_table []
- char buffer [122]
- char ssid [] = "arduinotest"
- char pass [] = "Effections1"

4.8.1 Function Documentation

4.8.1.1 void initOverlay ( )

Definition at line 290 of file wifiModule.ino.

4.8.1.2 void loop ( )

Definition at line 264 of file wifiModule.ino.

4.8.1.3 void setup ( )

Definition at line 251 of file wifiModule.ino.

4.8.1.4 Twitter twitter ("1079816048-TZlJ9cdVGQJqrxwDHZ3NH1WdOF7JW8a8XxhnCZN")

4.8.2 Variable Documentation

4.8.2.1 char buffer[122]

Definition at line 246 of file wifiModule.ino.

4.8.2.2 int index = 0

Definition at line 15 of file wifiModule.ino.

4.8.2.3 int messageLen = 32

Definition at line 16 of file wifiModule.ino.

4.8.2.4 unsigned int n = 0

Definition at line 14 of file wifiModule.ino.

4.8.2.5 unsigned char originx = 5

Definition at line 9 of file wifiModule.ino.

4.8.2.6 unsigned char originy = 80

Definition at line 10 of file wifiModule.ino.

4.8.2.7 char pass[ ] = "Effections1"

Definition at line 249 of file wifiModule.ino.

4.8.2.8 unsigned char plotx = originx

Definition at line 11 of file wifiModule.ino.

4.8.2.9 unsigned char ploty = 40

Definition at line 12 of file wifiModule.ino.

4.8.2.10 prog_char string_196 [ ] PROGMEM = "But we are for wild beasts! Let us throw us in my way."

Definition at line 18 of file wifiModule.ino.

4.8.2.11 char s[32]

Definition at line 13 of file wifiModule.ino.

4.8.2.12 char ssid[ ] = "arduinotest"

Definition at line 248 of file wifiModule.ino.

4.8.2.13 PROGMEM const char* string_table[ ]

Definition at line 215 of file wifiModule.ino.

4.8.2.14 TVout tv

Definition at line 7 of file wifiModule.ino.

4.8.2.15 unsigned char x

Definition at line 8 of file wifiModule.ino.

4.8.2.16 unsigned char y

Definition at line 8 of file wifiModule.ino.

4.9 hitchBOT/pocketsphinx-0.8/7827.dic File Reference

4.10 hitchBOT/pocketsphinx-0.8/7827.lm File Reference

Variables

- Language model created by QuickLM on Sun Mar

4.10.1 Variable Documentation

4.10.1.1 Language model created by QuickLM on Sun Mar

Definition at line 4 of file 7827.lm.

4.11 hitchBOT/pocketsphinx-0.8/vocab.txt File Reference

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