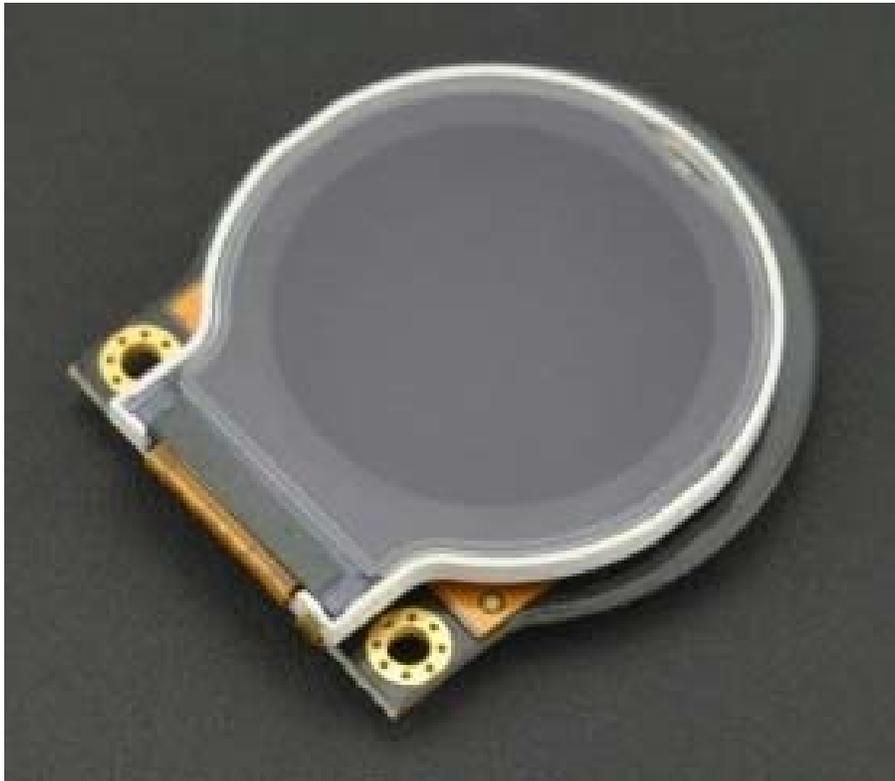


## 2.2" TFT LCD Display V1.0 (SPI Interface)

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SKU:DFR0529



### Introduction

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This is a 2.2" TFT LCD Display Module with an input voltage of 3.3V~5.5V, which is used to display colorful patterns and characters. The fastest screen refresh speed is about 256ms. The module is able to display multiple patterns in a cycle and realize dynamic display effect. At present, there are 19 common defined colors in the library, and users can also customize 16-bit color codes. If we take the central point of the display as the origin of coordinates, the maximum absolute value of the positive and negative semi-axes will be 64.

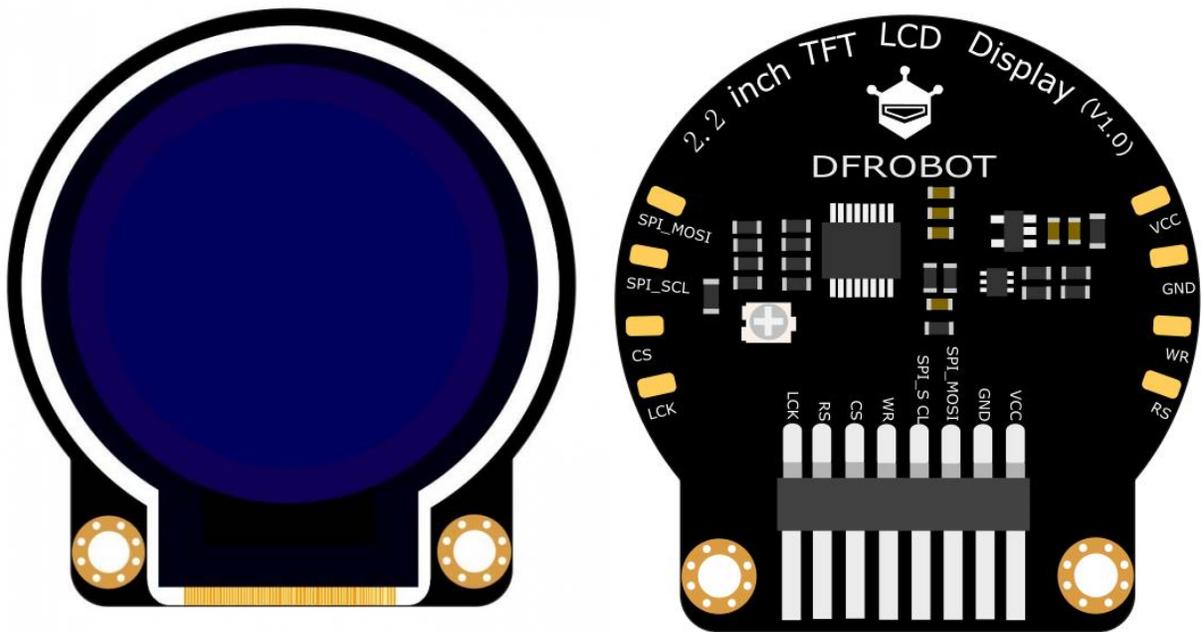
# Specification

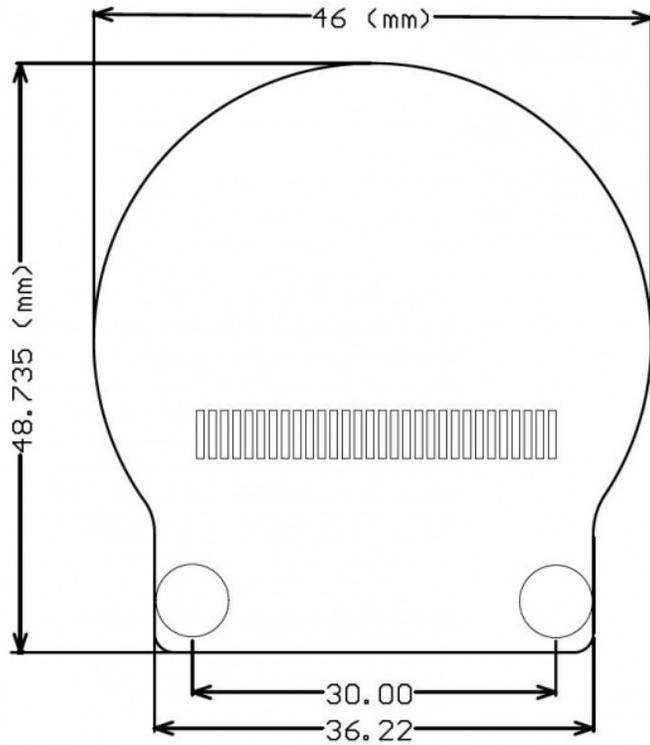
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- Supply Voltage: 3.3V~5.5V DC
- Operating Current: 40mA
- Display Color: multicolour
- Resolution: 128×128
- Refresh Rate: 10Hz ( MAX )
- Interface Type: SPI
- Operating Temperature: -30°C~ 70°C
- Dimension: 46×49 mm/1.81×1.93"

# Pinout and Dimension

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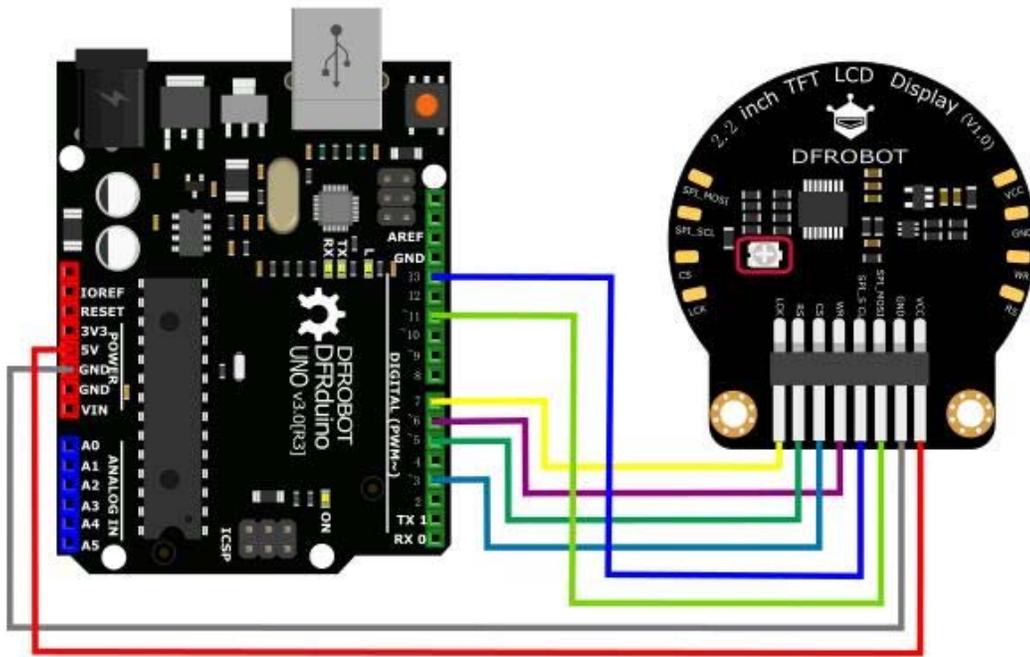


Name	Description
VCC	Positive Pole
GND	Negative Pole
SPI_MOSI	SPI Bus Master Output/Slave Input
SPI_SCL	Clock Signal
WR	LCD Data Input
CS	Chip Select
RS	LCD Internal Registers Select
LCK	LCD Internal Registers Clock Line

# Arduino Platform Applications

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## Arduino Connection Diagram



**Note: the brightness of the screen can be adjusted through the potentiometer( in the red box of the above diagram). Counterclockwise rotation to brighten the screen.**

## Tutorial

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### Hardware

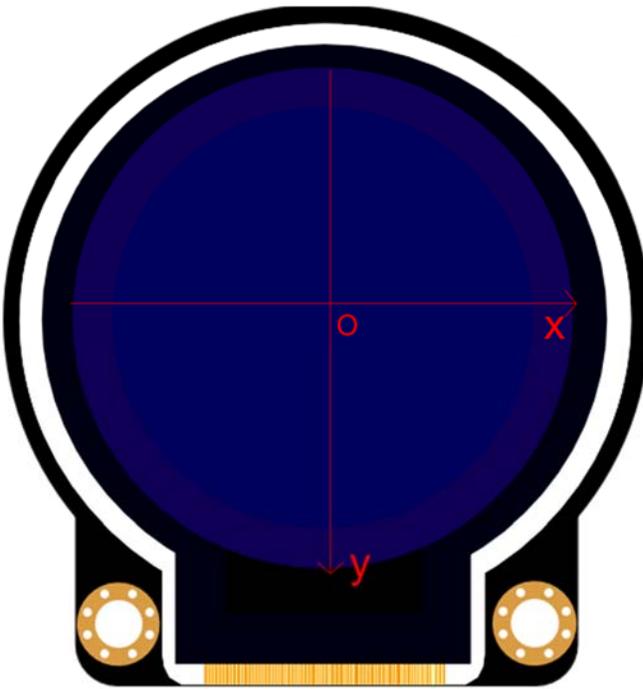
- 1 x UNO Microcontroller Board
- 1 x 2.2 inches TFT LCD Display Module

### Software

- [Arduino IDE](#), click to download Arduino IDE
- [ST7687S Library](#)
- [DFRobot-Display Library](#)
- [Click to download image2lcd.exe](#)
- [How to install the library?](#)

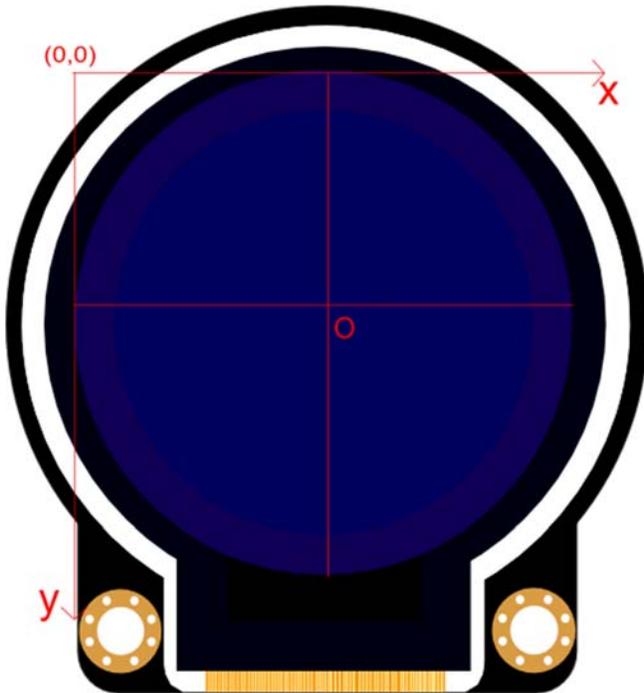
## Coordinates Axis Diagram of the Screen

The graphic display coordinates and the text display coordinates of the 2.2" screen are two different coordinates systems. The origin of the graphic display coordinates begin from the centre point of the screen while that of the later one begins from the top left hand side of the screen.



The coordinates of the centre point of the screen O: (0,0)

The vertex coordinates of the screen: (0,-64), (64,0), (0,64), (-64,0)



The coordinates of the centre point of the screen O: (64,64)

The vertex coordinates of the screen: (64,0), (128, 64), (64,128), (0,64)

## API Function

The following codes are just one part of the API function description. For more information, please refer to *ST7687S Library Introduction* and *Display Library Introduction*.

```
/*!
 * @The functionality of the function: set the size of the text
 *
 * @The formal parameter size refers to the text size based on the font(6×8). Size is
rounded to the integer greater than 0; if size is 1, the pixel points the font
occupied will be 6×8. if it is 2, that will be 12×16. The text out of the screen
cannot be displayed;
 *
 */
void setTextSize(uint8_t size)
/*!
 * @The functionality of the screen: refresh the color of the screen
 *
 * @The formal parameter color: values range[0, 65535] or 4-bit hexadecimal code
There are 19 common defined colors in the function library, and users can also
customize other colors;
 *
 */
void fillScreen(uint16_t color);
/*!
 * @the functionality of the function: draw pixel point
 *
 * @the formal parameter : the coordinate data of the pixel point x on the x axis,
values range[-128, 128]
 *
 * the coordinate data of the pixel y on the y axis, values
range[-128, 128] and the relationship between x and y should be:  $x^2 + y^2 \leq 128^2$ ;
 *
 * color : values range [0,65535]or 4-bit hexadecimal code ;
 *
 */
void drawPixel(int16_t x, int16_t y, uint16_t color);
/*!
 * @the functionality of the function :draw the line between the two points
 *
 * @the formal parameter : x0, x1;y0,y1values range[-128,128] the relationship between
(x0, y0) and (x1,y1) should be:  $x^2 + y^2 \leq 64^2$ ;
 *
 * color : set the color of the line, values range [0,65535] or 4-bit
hexadecimal code ;
 *
 */
void drawLine(int16_t x0, int16_t y0, int16_t x1, int16_t y1, uint16_t color);
/*!
 * @the functionality of the function : draw the horizontal line with the starting
point (x, y)
 * @the formal parameter : the coordinate of the starting point x on the x axis,
values range[-128,128]
 *
 * the coordinate of the starting point y on the y axis,
values range [-128,128] and the relationship of x and y should be:  $x^2 + y^2 \leq 64^2$ ;
```

```

*           width: the width of the horizontal line, values range [0,256]
*           color :set the color of the horizontal line, values range
[0,65535] or 4-bit hexadecimal code;
*
*/
void drawHLine(int16_t x, int16_t y, int16_t width, uint16_t color);
/*!
* @the functionality of the function :draw the vertical line with the starting point
(x, y)
*
* @the formal parameter : the coordinate of the starting point x on the x axis,
values range [-128,128]
*           the coordinate of the starting point y on the y axis,
values range [-128,128] and the relationship of x and y should be:  $x^2 + y^2 \leq 64^2$ ;
*           height: the height of the vertical line, values range [0,256]
*           color :set the color of the vertical line, values range [0,65535]
or 4-bit
hexadecimal code ;
*
*/
void drawVLine(int16_t x, int16_t y, int16_t height, uint16_t color);
/*!
* @the functionality of the function :set the initial coordinates of character
printing
*
* @the formal parameter : the coordinate of the starting point x on the x axis,
values:  $x \geq 0$ 
*           the coordinate of the starting y on the y axis, values  $y \geq 0$  and the
relationship of x and y should be:  $(x-64)^2 + (y-64)^2 \leq 6^2$  ;
*
*/
void setCursor(int16_t x, int16_t y);

```

## Sample Code

**The function of the program:** realize the refreshing of the background color of the 2.2”screen and the switching of background color among red, white and black; there are 19 common defined color in the library, and users can also customize 4-bit hexadecimal code or decimal color code (0~65535) to alter the background color of the screen.

```

/*
* file DFRobot_ST7687S_Latch.ino
*
* @ https://github.com/DFRobot/DFRobot\_ST7687S
*
* connect with your board (please reference board compatibility)
*
* controler (uno)           DFRobot 2.2 inch tft lcd display
* SPI_SCK                   ----> SPI_SCL
* SPI_MOSI                  ----> SPI_MOSI
* 3                          ----> cs
* 5                          ----> rs

```

```

* 6          ----> wr
* 7          ----> lck
*
* show many graphics on board
*
* Copyright  [DFRobot](http://www.dfrobot.com), 2016
* Copyright  GNU Lesser General Public License
*
* version  V1.0
* date    2017-12-7
*/

#include "DFRobot_ST7687S_Latch.h"

#ifdef __AVR__
uint8_t pin_cs = 3, pin_rs = 5, pin_wr = 6, pin_lck = 7;
#else
uint8_t pin_cs = D3, pin_rs = D5, pin_wr = D6, pin_lck = D7;
#endif

DFRobot_ST7687S_Latch tft(pin_cs, pin_rs, pin_wr, pin_lck);

void setup(void)
{
  Serial.begin(115200);
  tft.begin();
}

void loop(void)
{
  delay(1000);
  tft.fillScreen(DISPLAY_RED); //fill screen with color
  delay(1000);
  tft.fillScreen(DISPLAY_WHITE);
  delay(1000);
  tft.fillScreen(DISPLAY_BLACK);
  delay(1000);
  tft.fillScreen(65535); //User-defined color code 65535:white
  delay(1000);
  tft.fillScreen(0x0000); //User-defined color code 0x0000:black
}

```



## Sample Code

**The function of the program:** draw a circle with a center point coordinate (0,0), radius 20 and green arc at the centre of the screen, and fill the circle with red.

```
#include "DFRobot_ST7687S_Latch.h"

#ifdef __AVR__
uint8_t pin_cs = 3, pin_rs = 5, pin_wr = 6, pin_lck = 7;
#else
uint8_t pin_cs = D3, pin_rs = D5, pin_wr = D6, pin_lck = D7;
#endif

DFRobot_ST7687S_Latch tft(pin_cs, pin_rs, pin_wr, pin_lck);

void setup(void)
{
  Serial.begin(115200);
  tft.begin();
  tft.fillScreen(DISPLAY_WHITE);
}

void loop(void)
{
  tft.drawCircle(0, 0, 20, DISPLAY_GREEN); //draw circle
  delay(1000);
  tft.fillCircle(0, 0, 20, DISPLAY_RED); //fill circle
  delay(1000);
  tft.fillScreen(DISPLAY_WHITE);
  delay(1000);
}
```



## Sample Code

**The function of the program:** draw a rectangle with a coordinate of the top left apex(-20,-20), length 40, width 40 and blue frame at the centre of the screen, and fill the rectangle with blue.

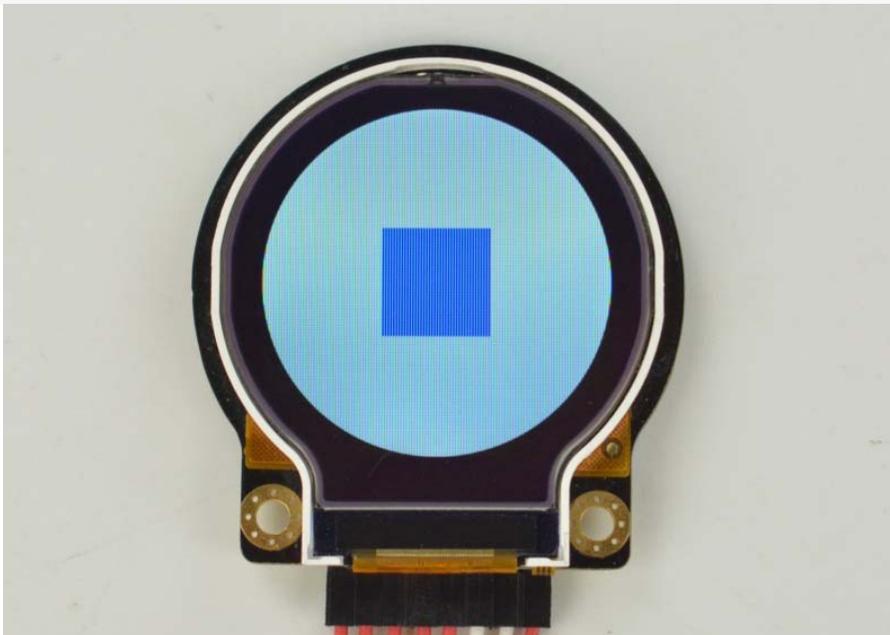
```
#include "DFRobot_ST7687S_Latch.h"

#ifdef __AVR__
uint8_t pin_cs = 3, pin_rs = 5, pin_wr = 6, pin_lck = 7;
#else
uint8_t pin_cs = D3, pin_rs = D5, pin_wr = D6, pin_lck = D7;
#endif

DFRobot_ST7687S_Latch tft(pin_cs, pin_rs, pin_wr, pin_lck);

void setup(void)
{
  Serial.begin(115200);
  tft.begin();
  tft.fillScreen(DISPLAY_WHITE);
}

void loop(void)
{
  tft.drawRect(-20, -20, 40, 40, DISPLAY_BLUE); //draw rectangle
  delay(1000);
  tft.fillRect(-20, -20, 40, 40, DISPLAY_BLUE); //fill rectangle
  delay(1000);
  tft.fillScreen(DISPLAY_WHITE);
  delay(1000);
}
```



## Sample Code

**The function of the program:** draw a triangle with the coordinates of the three apexes (-20, -50), (0, 0) and (50, 20) and orange frame at the centre of the screen, and fill the triangle with orange.

```
#include "DFRobot_ST7687S_Latch.h"

#ifdef __AVR__
uint8_t pin_cs = 3, pin_rs = 5, pin_wr = 6, pin_lck = 7;
#else
uint8_t pin_cs = D3, pin_rs = D5, pin_wr = D6, pin_lck = D7;
#endif

DFRobot_ST7687S_Latch tft(pin_cs, pin_rs, pin_wr, pin_lck);

void setup(void)
{
  Serial.begin(115200);
  tft.begin();
  tft.fillScreen(DISPLAY_WHITE);
}

void loop(void)
{
  tft.drawTriangle(-20, -50, 0, 0, 50, 20, DISPLAY_ORANGE); //draw triangle
  delay(1000);
  tft.fillTriangle(-20, -50, 0, 0, 50, 20, DISPLAY_ORANGE); //fill triangle with
color
  delay(1000);
  tft.fillScreen(DISPLAY_WHITE);
}
```



## Sample Code

**The function of the program:** draw a red line segment through the points (-64, -64) and (64, 64); taking the point (-64, 0) as the starting point, draw a white horizontal line with a width of 128; taking the point (0, -64) as the starting point, draw a white vertical line with a height of 128. The three lines meet at the centre point of the screen (0, 0).

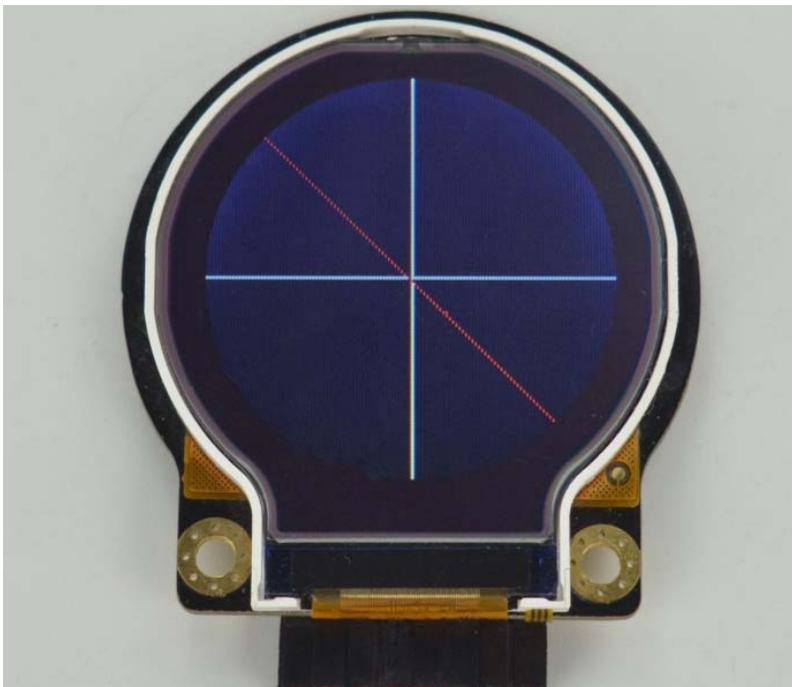
```
#include "DFRobot_ST7687S_Latch.h"

#ifdef __AVR__
uint8_t pin_cs = 3, pin_rs = 5, pin_wr = 6, pin_lck = 7;
#else
uint8_t pin_cs = D3, pin_rs = D5, pin_wr = D6, pin_lck = D7;
#endif

DFRobot_ST7687S_Latch tft(pin_cs, pin_rs, pin_wr, pin_lck);

void setup(void)
{
  Serial.begin(115200);
  tft.begin();
  tft.fillScreen(DISPLAY_BLACK);
}

void loop(void)
{
  tft.drawLine(-64, -64, 64, 64, DISPLAY_RED); //draw line
  tft.drawHLine(-64, 0, 128, DISPLAY_WHITE); //draw horizontal line
  tft.drawVLine(0, -64, 128, DISPLAY_WHITE); //draw vertical line
}
```



## Sample Code

**The function of the program:** taking the centre point of the 2.2" screen as the starting point (note: the graphic display coordinates and the text display coordinates are two different coordinates, the centre point of the graphic display coordinates is (64, 64) while that of the later one is (0, 0)), display a character string "fire" with red text background box, white font and the size of the font 2 on the screen. The formal parameter size of the function to set font size `tft.setTextSize (uint8_t size)` should be greater than 0 and the text out of the screen cannot be displayed.

```
#include "DFRobot_ST7687S_Latch.h"

#ifdef __AVR__
uint8_t pin_cs = 3, pin_rs = 5, pin_wr = 6, pin_lck = 7;
#else
uint8_t pin_cs = D3, pin_rs = D5, pin_wr = D6, pin_lck = D7;
#endif

DFRobot_ST7687S_Latch tft(pin_cs, pin_rs, pin_wr, pin_lck);

void setup(void)
{
  Serial.begin(115200);
  tft.begin();
  tft.fillScreen(DISPLAY_BLACK);
}

void loop(void)
{
  tft.setCursor(64, 64);
  tft.setTextBackground(DISPLAY_RED); //set text background as black
  tft.setTextColor(DISPLAY_WHITE); //set text color as white
  tft.setTextSize(2); //2 * text size, default text size: 6 * 8
  tft.print("fire");
  delay(1000);
}
```





**Note: you need to connect an external font chip GT30L to display Chinese characters as there is no font chip in the 2.2" display.**

## Sample Code

**The function of the program:** use the software image2lcd.exe to extract the bitmap of one image and display it on the centre part of the 2.2"screen(note: for the reason of UNO's internal memory, the following demo cannot be accepted on UNO since the image file is too large, but it can be displayed on ESP32. So you'd better choose small image file if you want to display it on UNO.) The parameter selection of the software is provided below.



```
#include "DFRobot_ST7687S_Latch.h"
#include "weixinpic.c"

#ifdef __AVR__
uint8_t pin_cs = 3, pin_rs = 5, pin_wr = 6, pin_lck = 7;
#else
uint8_t pin_cs = D3, pin_rs = D5, pin_wr = D6, pin_lck = D7;
#endif

DFRobot_ST7687S_Latch tft(pin_cs, pin_rs, pin_wr, pin_lck);
const unsigned char g[]={ /* 0X00,0X18,0X64,0X00,0X56,0X00,0X00,0X39, */
```

0XFE,0XFE,0XF4,0XFB,0XFA,0XF5,0XF9,0XFB,0XFD,0XF5,0XF7,0XFD,0XF0,0XF1,0XFA,0XFE,  
0XFC,0XFF,0XFB,0XF5,0XF6,0XFF,0XFB,0XFC,0XFF,0XFC,0XFE,0XFC,0XFC,0XFE,0XFC,0XFB,  
0XFF,0XFF,0XFC,0XFE,0XFF,0XFE,0XFE,0XFF,0XFE,0XFD,0XFB,0XFE,0XF8,0XFC,0XFD,0XF2,  
0XFE,0XFB,0XF0,0XFC,0XF9,0XE9,0XF7,0XFA,0XE4,0XE6,0XF4,0XDB,0XC9,0XE3,0XC5,0X9F,  
0XD7,0XB1,0X76,0XCE,0X9F,0X6A,0XC5,0X97,0X69,0XC3,0X95,0X6D,0XC3,0X96,0X6C,0XBD,  
0X93,0X70,0XBD,0X93,0X74,0XBA,0X91,0X79,0XB8,0X90,0X80,0XBA,0X91,0X85,0XBD,0X92,  
0X7F,0XC0,0X93,0X75,0XBF,0X8F,0X7C,0XC3,0X94,0X84,0XC5,0X99,0X7F,0XC4,0X98,0X85,  
0XCD,0XA3,0X7D,0XCA,0XA1,0X7B,0XCA,0XA4,0X7E,0XC8,0XA6,0X82,0XC3,0XA5,0X86,0XBF,  
0XA2,0X7C,0XC1,0X99,0X77,0XC3,0X95,0X72,0XC2,0X93,0X6C,0XBD,0X8E,0X67,0XB8,0X89,  
0X63,0XB4,0X85,0X5F,0XB0,0X81,0X5B,0XAA,0X7B,0X5B,0XA6,0X78,0X58,0XA2,0X74,0X57,  
0X9C,0X6F,0X65,0XA2,0X74,0X6C,0XA4,0X77,0X76,0XAD,0X80,0X81,0XB5,0X89,0X82,0XB6,  
0X8B,0X7D,0XB4,0X89,0X77,0XB3,0X87,0X68,0XAC,0X82,0X56,0XA3,0X77,0X4F,0XA0,0X74,  
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0X97,0X66,0X4C,0X99,0X67,0X50,0X9C,0X69,0X57,0XA2,0X6F,0X62,0XAC,0X78,0X73,0XBB,  
0X87,0X87,0XC3,0X94,0X9F,0XC7,0XA0,0XB1,0XCF,0XAA,0XCA,0XDA,0XBB,0XE5,0XE8,0XCC,  
0XF8,0XF0,0XDA,0XFF,0XF7,0XE6,0XFF,0XFA,0XEB,0XFF,0XF9,0XED,0XFF,0XFC,0XF1,0XFC,  
0XFA,0XEF,0XFD,0XF4,0XEA,0XFF,0XF1,0XE5,0XFB,0XEF,0XE0,0XF5,0XF1,0XDF,0XF4,0XF2,  
0XDD,0XF4,0XEF,0XDA,0XF4,0XE9,0XD6,0XF5,0XE5,0XD5,0XF7,0XE7,0XD8,0XFC,0XEE,0XE0,  
0XFF,0XF3,0XE9,0XFE,0XF7,0XED,0XFD,0XF9,0XEE,0XFE,0XFA,0XEF,0XFD,0XFB,0XF3,0XFB,  
0XFA,0XF8,0XF8,0XFB,0XFD,0XEF,0XF4,0XFC,0XF6,0XF8,0XFE,0XF7,0XF4,0XFB,0XFF,0XFC,  
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0XFF,0XFC,0XF8,0XFC,0XFB,0XF5,0XF6,0XFA,0XF0,0XF4,0XF7,0XEA,0XF4,0XF5,0XE5,0XF0,  
0XF2,0XDF,0XE6,0XF0,0XD9,0XD4,0XEA,0XCE,0XB9,0XDB,0XBB,0X98,0XD0,0XAC,0X7D,0XCC,  
0XA3,0X77,0XC8,0XA0,0X77,0XCA,0XA1,0X79,0XCB,0XA3,0X78,0XC6,0XA0,0X78,0XC4,0X9E,  
0X7C,0XC4,0X9F,0X80,0XC3,0X9F,0X84,0XC4,0X9F,0X87,0XC4,0X9E,0X7F,0XC3,0X9D,0X78,  
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0X71,0XBF,0X90,0X6D,0XBD,0X8E,0X68,0XB9,0X8A,0X64,0XB4,0X85,0X61,0XB1,0X82,0X5F,  
0XAE,0X7F,0X5C,0XA7,0X79,0X5C,0XA3,0X75,0X5B,0X9F,0X72,0X59,0X9A,0X6D,0X5D,0X96,  
0X69,0X64,0X98,0X6C,0X6C,0X9F,0X73,0X74,0XA6,0X7A,0X77,0XA7,0X7D,0X76,0XA8,0X7E,  
0X6E,0XA6,0X7B,0X61,0XA1,0X77,0X57,0X9F,0X74,0X4D,0X99,0X6E,0X41,0X91,0X65,0X43,  
0X93,0X66,0X42,0X92,0X63,0X42,0X90,0X61,0X42,0X8E,0X5F,0X41,0X8E,0X5E,0X45,0X90,  
0X5F,0X47,0X92,0X61,0X4C,0X96,0X64,0X56,0X9F,0X6B,0X64,0XAC,0X78,0X76,0XB3,0X84,  
0X8D,0XB9,0X90,0XA3,0XC4,0X9E,0XBF,0XD3,0XB1,0XDA,0XE1,0XC4,0XF1,0XEC,0XD4,0XFE,  
0XF4,0XE0,0XFF,0XF6,0XE5,0XFF,0XF5,0XE8,0XFF,0XF8,0XEB,0XF9,0XF6,0XE9,0XF7,0XEE,  
0XE1,0XFB,0XEB,0XDC,0XF1,0XE8,0XD7,0XE8,0XE5,0XD0,0XE4,0XE3,0XCC,0XE7,0XE3,0XCB,  
0XE7,0XDF,0XCA,0XEC,0XDD,0XCB,0XF0,0XE1,0XD0,0XF7,0XEA,0XDB,0XFE,0XF2,0XE6,0XFE,  
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0XCC, 0XD1, 0XD4, 0XD7, 0XDC, 0XCF, 0XD2, 0XD7, 0XCC, 0XCF, 0XD4, 0XCE, 0XD1, 0XD6, 0XCD, 0XD0, 0XD5, 0XCA, 0XCD, 0XD2, 0XC8, 0XCB, 0XD0, 0XC6, 0XCB, 0XD0, 0XC3, 0XC8, 0XCF, 0XC2, 0XC8, 0XCF, 0XC2, 0XC8, 0XCF, 0XC4, 0XCA, 0XD1, 0XC6, 0XCC, 0XD3, 0XB7, 0XBD, 0XC4, 0X99, 0X9F, 0XA6, 0X7A, 0X80, 0X87, 0X7D, 0X83, 0X8A, 0X9F, 0XA5, 0XAC, 0XB6, 0XC0, 0XC7, 0XB7, 0XC4, 0XCC, 0XB1, 0XBE, 0XC6, 0XB6, 0XC0, 0XC9, 0XB7, 0XC1, 0XCB, 0XAC, 0XB6, 0XC0, 0X6D, 0X75, 0X82, 0X80, 0X88, 0X95, 0X75, 0X7C, 0X89, 0X73, 0X79, 0X87, 0X71, 0X75, 0X84, 0X7D, 0X81, 0X8C, 0X85, 0X8A, 0X93, 0X90, 0X95, 0X9E, 0X98, 0X9D, 0XA6, 0X99, 0X9E, 0XA7, 0X98, 0X9F, 0XA8, 0X9B, 0XA3, 0XAC, 0X9C, 0XA4, 0XAD, 0X98, 0XA1, 0XAA, 0X8B, 0X94, 0X9D, 0X7C, 0X86, 0X8E, 0X7F, 0X86, 0X8F, 0X8D, 0X94, 0X9D, 0X9B, 0XA2, 0XAB, 0XA4, 0XAB, 0XB4, 0XAB, 0XB2, 0XBB, 0XAF, 0XB6, 0XBF, 0XAC, 0XB3, 0XBC, 0XAB, 0XB2, 0XBB, 0XB0, 0XB7, 0XC0, 0XB1, 0XB8, 0XC1, 0XAD, 0XB5, 0XBC, 0XB2, 0XB8, 0XBE, 0XB3, 0XB9, 0XBF, 0XB3, 0XB9, 0XBF, 0XB2, 0XB8, 0XC0, 0XB2, 0XB7, 0XBF, 0XB1, 0XB6, 0XBF, 0XB1, 0XB5, 0XBF, 0XB0, 0XB4, 0XBF, 0XAF, 0XB3, 0XBE, 0XAF, 0XB2, 0XBE, 0XAC, 0XB1, 0XBC, 0XA8, 0XB1, 0XBB, 0XAB, 0XB4, 0XBF, 0XA8, 0XB1, 0XBB, 0XAA, 0XB3, 0XBD, 0XAA, 0XB3, 0XBD, 0XAB, 0XB4, 0XBE, 0XA8, 0XB1, 0XBB, 0XA8, 0XB1, 0XBA, 0XAB, 0XB4, 0XBD, 0XAB, 0XB4, 0XBD, 0XA9, 0XB2, 0XBB, 0XA8, 0XB2, 0XB8, 0XAA, 0XB3, 0XBA, 0XAE, 0XB7, 0XBF, 0XB0, 0XB9, 0XC0, 0XAE, 0XB7, 0XBE, 0XAE, 0XB7, 0XBE, 0XAF, 0XB8, 0XC0, 0XB0, 0XB9, 0XC0, 0XB0, 0XB9, 0XC0, 0XAF, 0XB8, 0XC0, 0XB2, 0XB8, 0XC2, 0XA9, 0XAF, 0XB9, 0X9D, 0XA3, 0XAE, 0XCA, 0XCC, 0XD5, 0XDC, 0XDE, 0XE7, 0XCF, 0XD3, 0XDC, 0XB9, 0XBD, 0XC6, 0XAB, 0XAF, 0XB9, 0XBE, 0XC4, 0XCE, 0XA5, 0XAD, 0XB9, 0XA7, 0XAF, 0XBB, 0X8B, 0X94, 0XA2, 0X86, 0X8F, 0X9C, 0XB4, 0XBB, 0XC7, 0XC9, 0XCC, 0XD2, 0XC7, 0XCA, 0XCF, 0XCD, 0XD0, 0XD4, 0XBF, 0XC2, 0XC6, 0XBD, 0XC0, 0XC5, 0XC5, 0XC8, 0XCC, 0XC5, 0XC8, 0XCC, 0XC2, 0XC5, 0XC9, 0XBC, 0XBF, 0XC4, 0XBA, 0XBD, 0XC1, 0XBA, 0XBF, 0XC3, 0XB9, 0XBF, 0XC4, 0XB7, 0XBD, 0XC3, 0XB8, 0XBE, 0XC4, 0XBC, 0XC2, 0XC7, 0XBE, 0XC4, 0XCA, 0XC7, 0XCD, 0XD3, 0XBB, 0XC1, 0XC6, 0XB5, 0XBB, 0XC0, 0X9D, 0XA3, 0XA8, 0X64, 0X6A, 0X70, 0X4F, 0X59, 0X61, 0X7B, 0X87, 0X93, 0XA9, 0XB5, 0XC0, 0XB5, 0XC0, 0XCC, 0XB6, 0XC0, 0XCC, 0XAF, 0XB9, 0XC5, 0XAE, 0XB6, 0XC3, 0XA5, 0XAE, 0XB8, 0XA5, 0XAE, 0XB8, 0XA1, 0XA9, 0XB4, 0XA1, 0XA7, 0XB4, 0XAB, 0XAF, 0XBA, 0XA8, 0XAD, 0XB7, 0XA3, 0XA9, 0XB3, 0XA2, 0XA7, 0XB2, 0XA0, 0XA6, 0XB1, 0X9A, 0XA2, 0XAC, 0X96, 0X9F, 0XA9, 0X9B, 0XA4, 0XAE, 0X9F, 0XA8, 0XB2, 0XA0, 0XAA, 0XB4, 0XA1, 0XAB, 0XB5, 0XA7, 0XB0, 0XB9, 0X9C, 0XA5, 0XAE, 0X88, 0X90, 0X9A, 0X7E, 0X87, 0X90, 0X8B, 0X94, 0X9E, 0XA5, 0XAD, 0XB7, 0XB4, 0XBC, 0XC6, 0XB6, 0XBE, 0XC8, 0XB1, 0XB9, 0XC3, 0XB0, 0XB9, 0XC3, 0XB5, 0XBE, 0XC7, 0XB9, 0XC0, 0XC7, 0XB5, 0XBC, 0XC4, 0XB2, 0XB9, 0XC2, 0XB2, 0XB8, 0XC2, 0XB4, 0XB9, 0XC4, 0XAE, 0XB4, 0XBE, 0XAC, 0XB1, 0XBE, 0XAA, 0XB0, 0XBC, 0XA7, 0XAC, 0XB9, 0XA4, 0XA9, 0XB7, 0XA3, 0XA9, 0XB6, 0XA4, 0XAC, 0XB9, 0XA7, 0XAE, 0XBD, 0XA6, 0XAE, 0XBA, 0XAB, 0XB3, 0XBF, 0XAD, 0XB6, 0XC0, 0XAC, 0XB5, 0XBE, 0XA8, 0XB1, 0XBA, 0XAA, 0XB3, 0XBB, 0XAF, 0XB9, 0XBF, 0XB0, 0XBA, 0XC1, 0XB3, 0XBA, 0XBF, 0XB3, 0XBA, 0XBE, 0XAF, 0XB6, 0XBA, 0XAD, 0XB3, 0XB9, 0XAA, 0XB1, 0XB5, 0XA5, 0XAD, 0XB0, 0XA5, 0XAC, 0XB0, 0XA5, 0XAC, 0XB1, 0XA6, 0XAD, 0XB1, 0XA8, 0XAF, 0XB3, 0XAB, 0XB1, 0XB6, 0XAB, 0XB2, 0XB9, 0XAB, 0XB1, 0XB9, 0XAF, 0XB5, 0XBC, 0XC0, 0XC3, 0XCD, 0XCB, 0XD1, 0XDA, 0XB7, 0XBC, 0XC6, 0X96, 0X9C, 0XA7, 0X53, 0X5A, 0X66, 0X71, 0X79, 0X86, 0X7F, 0X88, 0X97, 0X6D, 0X77, 0X87, 0X3B, 0X46, 0X57, 0X81, 0X8C, 0X9E, 0XC8, 0XD1, 0XDF, 0XCA, 0XCE, 0XD4, 0XCC, 0XCF, 0XD3, 0XC0, 0XC3, 0XC7, 0XB7, 0XBA, 0XBE, 0XB1, 0XB4, 0XB8, 0XB0, 0XB3, 0XB7, 0XB1, 0XB4, 0XB8, 0XB1, 0XB4, 0XB8, 0XAF, 0XB2, 0XB6, 0XB2, 0XB5, 0XB9, 0XB3, 0XB8, 0XBC, 0XB2, 0XB8, 0XBD, 0XB3, 0XB9, 0XBE, 0XB4, 0XBA, 0XBF, 0XB6, 0XBC, 0XC1, 0XB8, 0XBE, 0XC3, 0XB6, 0XBC, 0XC1, 0XB5, 0XBB, 0XC0, 0XB8, 0XBE, 0XC3, 0XB8, 0XBE, 0XC3, 0XAE, 0XB4, 0XBA, 0X8F, 0X98, 0XA3, 0X66, 0X72, 0X80, 0X4C, 0X57, 0X67, 0X61, 0X6C, 0X7B, 0X8E, 0X98, 0XA6, 0XA5, 0XAE, 0XBB, 0XA0, 0XA9, 0XB6, 0X98, 0XA1, 0XAB, 0XA3, 0XAC, 0XB5, 0XA1, 0XAA, 0XB4, 0XA1, 0XA8, 0XB3, 0XA1, 0XA6, 0XB1, 0XA5, 0XAA, 0XB5, 0XA9, 0XAF, 0XBA, 0XA9, 0XB0, 0XBB, 0XA6, 0XAE, 0XB8, 0XA6, 0XAF, 0XB9, 0XAA, 0XB3, 0XBD, 0XA6, 0XB0, 0XBA, 0XA0, 0XAA, 0XB4, 0X9F, 0XAA, 0XB4, 0XA2, 0XAE, 0XB8, 0XAB, 0XB4, 0XBE, 0XA8, 0XB1, 0XBB, 0XAC, 0XB5, 0XBF, 0XAC, 0XB5, 0XBF, 0X97, 0XA0, 0XAA, 0X7B, 0X84, 0X8E, 0X6F, 0X78, 0X82, 0X7C, 0X85, 0X8F, 0X9A, 0XA3, 0XAD, 0XAB, 0XB4, 0XBE, 0XAB, 0XB4, 0XBE, 0XB4, 0XBB, 0XC5, 0XB4, 0XBB, 0XC5, 0XB3, 0XBA, 0XC4, 0XB0, 0XB7, 0XC3, 0XAE, 0XB5, 0XC0, 0XAA, 0XB0, 0XBD, 0XA9, 0XAF, 0XBD, 0XA9, 0XB0, 0XBD, 0XAA, 0XAF, 0XBF, 0XAA, 0XB0, 0XBF, 0XA9, 0XAF, 0XBE, 0XA6, 0XAD, 0XBD, 0XA6, 0XAD, 0XBD, 0XA3, 0XAA, 0XB9, 0XA8, 0XB0, 0XBD, 0XAC, 0XB4, 0XBF, 0XA9, 0XB2, 0XBB, 0XA9, 0XB2, 0XBA, 0XA9, 0XB4, 0XB8, 0XAB, 0XB6, 0XBA, 0XAD, 0XB8, 0XBB, 0XAE, 0XB6, 0XB8, 0XAD, 0XB2, 0XB5, 0XAC, 0XB1, 0XB3, 0XAD, 0XB2, 0XB4, 0XAF, 0XB4, 0XB6, 0XAE, 0XB3, 0XB6, 0XAB, 0XB0, 0XB2, 0XAB, 0XB0, 0XB2, 0XAB, 0XB0, 0XB2, 0XAA, 0XAF, 0XB2, 0XAA, 0XB0, 0XB4, 0XA7, 0XAD, 0XB2, 0XA5, 0XAB, 0XB0, 0XB8, 0XBD, 0XC8, 0X85, 0X8B, 0X96, 0X70, 0X76, 0X81, 0X6F, 0X77, 0X84, 0X4B, 0X53, 0X61, 0X32, 0X3C, 0X4B, 0X31, 0X3B,

```

0X4C,0X42,0X4E,0X5F,0X5E,0X6C,0X7F,0XAD,0XBB,0XCE,0X9C,0XA6,0XB6,0X9F,0XA3,0XA9,
0X9A,0X9D,0XA1,0XA2,0XA5,0XA9,0XAD,0XB0,0XB4,0XAC,0XAF,0XB3,0XAA,0XAD,0XB1,0XAB,
0XAE,0XB2,0XAA,0XAD,0XB1,0XAA,0XAD,0XB1,0XAD,0XB0,0XB4,0XB1,0XB5,0XB9,0XB1,0XB7,
0XBC,0XAE,0XB4,0XB9,0XAE,0XB4,0XB9,0XB1,0XB7,0XBC,0XB4,0XBA,0XBF,0XB1,0XB7,0XBC,
0XAB,0XB1,0XB6,0XA9,0XAF,0XB4,0XAE,0XB4,0XB9,0XB1,0XB7,0XBD,0XAB,0XB4,0XC0,0XA3,
0XAF,0XC0,0X96,0XA3,0XB4,0X73,0X7D,0X8E,0X4F,0X58,0X68,0X4B,0X54,0X62,0X66,0X6F,
0X7C,0X9B,0XA4,0XAE,0XA0,0XA9,0XB3,0XA4,0XAD,0XB6,0X9E,0XA8,0XAF,0X9B,0XA1,0XAC,
0XA1,0XA7,0XB2,0XA5,0XAB,0XB6,0XA2,0XAB,0XB5,0XA4,0XAD,0XB7,0XA8,0XB2,0XBC,0XA7,
0XB1,0XBB,0XAB,0XB5,0XBF,0XA7,0XB2,0XBC,0XA3,0XAF,0XB9,0XA4,0XB0,0XBA,0XA4,0XAD,
0XB7,0XA4,0XAD,0XB7,0XA7,0XB0,0XBA,0XAA,0XB3,0XBD,0XA8,0XB1,0XBB,0XA6,0XAF,0XB9,
0XA4,0XAD,0XB7,0X99,0XA2,0XAC,0X88,0X91,0X9B,0X79,0X82,0X8C,0X71,0X7A,0X84,0X87,
0X90,0X9A,0X98,0XA1,0XAB,0XA8,0XB1,0XBC,0XAF,0XB7,0XC4,0XAC,0XB4,0XC1,0XA9,0XB1,
0XBF,0XA9,0XB0,0XBF,0XA9,0XB0,0XBF,0XA8,0XAF,0XC0,0XA8,0XAF,0XC0,0XA7,0XAE,0XBF,
0XA7,0XAD,0XC0,0XA8,0XAF,0XC0,0XA3,0XAA,0XBA,0XA5,0XAC,0XBA,0XA4,0XAD,0XB8,0XA3,
0XAC,0XB6,0XA5,0XAF,0XB6,0XA2,0XAD,0XB1,0X9E,0XAA,0XAC,0X9F,0XAB,0XAC,0XA6,0XAE,
0XAE,0XA9,0XAD,0XAE,0XA6,0XAA,0XAB,0XA8,0XAC,0XAD,0XAA,0XAE,0XAF,0XA9,0XAD,0XAE,
0XAC,0XB0,0XB1,0XAC,0XB0,0XB1,0XAC,0XB0,0XB1,0XAC,0XB0,0XB1,0XAA,0XAE,0XAF,0XAC,
0XB2,0XB4,0XA8,0XAE,0XB2,0XA3,0XAA,0XAD,};
void setup(void)
{
  Serial.begin(115200);
  tft.begin();
  tft.fillScreen(DISPLAY_BLACK);
  tft.drawBmp((uint8_t*)g, -50, -43, 100, 86);
}

void loop(void)
{
}

```

## Effect Display



# Sample Code

**The function of the program:** draw a running clock on the screen, and its starting time is 18:00:00.

```
/*
 * file clock.ino
 *
 * @ https://github.com/DFRobot/DFRobot_ST7687S
 *
 * connect with your board (please reference board compatibility)
 *
 * controller (uno)          DFRobot 2.2 inch tft lcd display
 * SPI_SCK      ----> SPI_SCL
 * SPI_MOSI     ----> SPI_MOSI
 * 3            ----> cs
 * 5            ----> rs
 * 6            ----> wr
 * 7            ----> lck
 *
 * a clock demo
 *
 * Copyright [DFRobot](http://www.dfrobot.com), 2016
 * Copyright GNU Lesser General Public License
 *
 * version V1.0
 * date 2017-12-7
 */

#include "DFRobot_ST7687S_Latch.h"
#include "DFRobot_Display_Clock.h"
#include <TimeLib.h>

#ifdef __AVR__
uint8_t pin_cs = 3, pin_rs = 5, pin_wr = 6, pin_lck = 7;
#else
uint8_t pin_cs = D3, pin_rs = D5, pin_wr = D6, pin_lck = D7;
#endif

DFRobot_ST7687S_Latch tft(pin_cs, pin_rs, pin_wr, pin_lck);
DFRobot_Display_Clock clk(&tft);

void setup(void)
{
  Serial.begin(115200);
  setTime(18,0,0,19,4,2018);
  tft.begin();
  tft.fillScreen(DISPLAY_BLACK);
  clk.setPointerLength(32, 40, 48); //pointer length: hour, minute, second
  clk.setPointerWidth(3, 2, 2); //pointer width: hour, minute, second
  clk.setPointerColor(DISPLAY_RED, DISPLAY_GREEN, DISPLAY_BLUE); //pointer color:
  hour, min, second
  clk.setClockDial(0, 0, 60); //clock position x, y, clock radius
}
```

```
    clk.setDialColor(DISPLAY_WHITE, DISPLAY_BLACK); //clock border color, background
    clk.showDial(); //draw dial
}

void loop(void)
{
    clk.updateClock(hour(), minute(), second());
}
```

## Effect Display

