

# Car screen display control

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## 1. Experimental purpose

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Drive the car screen to display graphics and text

## 2. Experimental path source code

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Enter the car system, end the car program, enter "ip (ip is the car's ip): 8888" in the browser, enter the password "yahboom"



Password:

Then log in

Enter the path of **Rider-pi\_class/2.Basic Control Ooperations/1.Small car screen display** and run **car lcd control.ipynb**.

## 3. Experimental phenomenon

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1. Draw an oblique straight line



2. Draw a circle



3. Draw a rectangle



4. Display text



#### 5. Display an image



### 4. Analysis of main source code parameters

#### 1. Draw a straight line

```
lcd_line(x1,y1,x2,y2,color=(r,g,b),width=width)
```

Parameter name	Format	Input range	Description
x1,y1,x2,y2	Number	x1 x2:[0,320] y1 y2:[0,240]	x1,y1 are the initial point x2,y2 are the end point coordinates
color (optional) defaults to white	rgb tuple	rgb:[0,255]	color is the line color
width (optional) defaults to 2	Number	/	width is the line width

#### 2. Draw a circle

```
lcd_round(center_x, center_y, radius, color=(255, 255, 255), width=2)
```

Parameter name	Format	Input range	Description
center_x, center_y	Number	center_x:[0,320] center_y:[0,240]	center_x, center_y are the coordinates of the center of the circle
radius	Number	/	radius is the radius
color (optional) defaults to white	rgb tuple	rgb:[0,255]	color is the color

Parameter name	Format	Input range	Description
width (optional) defaults to 2	Number	/	width is the arc width

### 3. Draw a rectangle

`lcd_rectangle(x1,y1,x2,y2,fill=None,outline=(255,255,255),width=2)`

Parameter name	Format	Input range	Description
x1,y1,x2,y2	Number	x1 x2:[0,320] y1 y2:[0,240]	x1,y1 are the initial point x2,y2 are the end point coordinates
fill (can be omitted) defaults to none	rgb tuple	rgb:[0,255]	fill is the fill color
outline (can be omitted) defaults to white	rgb tuple	rgb:[0,255]	outline is the line color
width (can be omitted) defaults to 2	Number	/	width is the line width

### 4. Display text

`lcd_text(x,y,content,color=(255,255,255),fontsize=15)`

Parameter name	Format	Input range	Description
x,y	Number	x y:[0,320]	x,y are the initial points
content	string	/	content is the display content
color (optional) defaults to white	rgb tuple	r g b: [0,255]	color is the text color
fontsize (optional) defaults to 15	Number	/	fontsize is the font size

### 5. Display pictures

`lcd_picture(filename)`

Parameter name	Format	Description
filename	string	The picture file name needs to have a jpg extension, the picture file display path is /home/pi/xgoPictures, and the picture size is 320*240

**If you want to display custom pictures, you need to put the pictures in the path of**  
home/pi/xgoPictures.