

MKS TFT pictures&logos Customization Manual

V1.1

Contract

If customers want to customize the picture and logo showing in the touch screen, the rules should be followed.

1.Customization range:

- a. Button pictures (such as show at red number 1 in figure 1), text above the picture (such as show at red number 2 in figure 1) can be customized when you design your own pictures;
- b. Background color of screen(see Figure 3, default Black);
- c. Color of the text in title(see Figure 4, default white);
- d. Background color for status such as temperature (see figure1 red number "5", default dark blue);
- e. Color of the text for status such as temperature , etc. (see Figure 1 red number 6, default white);
- f. Color of the text in the button of "select the file" interface, (see Figure 2, showing at red number7,default white);
- g. Background color of the button in "select the file" interface, we suggest you choose the same color with picture ;

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Database: <https://github.com/makerbase-mks>

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- h. Background color of the print status information text in "printing" interface (see figure3, showing at red number "8", default white);
- i. Color of the print status information text in "printing" interface, we suggest you choose the same color with picture ;
- j. Button defaults 3D effect , then there will turn up white border around the button picture.



Figure 1



Figure 2



Figure 3

2. Customizable button picture, 16bpp, wide =78 pixels, high =104 pixels;

3. Customizable logo images, 16bpp, wide =320 pixels, high =240 pixels;

4. The name of the custom image must be named after the appendix (see Appendix 1).

5. The color value is 16 binary, according to the 3 primary colors

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of blue, green, red order (see Appendix 2);

6. Customizable function button, can customize 7 buttons at most.

Step:

1. Picture customization

- Install the "Image2Lcd" tool that we provide;
- Follow the following operation for each picture:

Open the Image2Lcd software and set as below:



Prepare .Bmp format picture, using the Image2Lcd to open:

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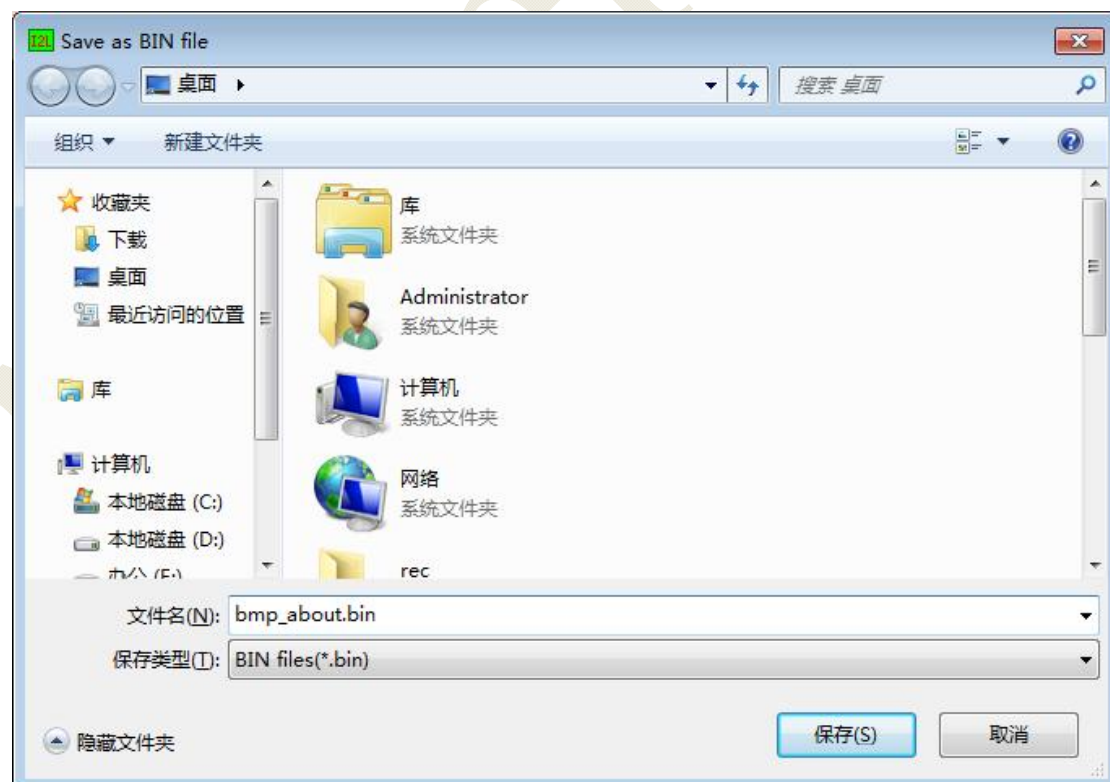
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Click save bottom, save the file with the name we specified.



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- c. Create a folder "mks_pic" in the root directory of your SD card, and put all the .Bin files generated by the previous step to the folder "mks_pic";

2. Screen background color customization

Modify the color value in configuration file "MKS config.txt" field "CFG background color" colon, and then save;

3. Color of title text customization

Modify the color value in configuration file " mks_config.txt " field " cfg_title_color " colon, and then save;

4. Background color for display statues such as temperature customization

Modify the color value in configuration file " mks_config.txt " field " cfg_state_background_color " colon, and then save;

5. Color of text such as temperature customization

Modify the color value in configuration file " mks_config.txt " field " cfg_state_text_color " colon, and then save;

6. Customize the color of filename button in "select file" interface

Modify the color value in configuration file " mks_config.txt " field " cfg_filename_color " colon, and then save;

7. Customize the background color of filename button in "select file" interface

Modify the color value in configuration file " mks_config.txt " field " cfg_filename_background_color " colon, and then save;

8. Customize the background color of text for printing status in "printing" interface

Modify the color value in configuration file " mks_config.txt " field " cfg_printingstat_word_background_color " colon, and then save;

9. Customize the color of text for printing status in "printing" interface

Modify the color value in configuration file " mks_config.txt " field " cfg_printingstat_word_color " colon, and then save;

10. Function button settings for the “more” menu;

a. Modify the value in configuration file " mks_config.txt " field " moreitem_pic_cnt " colon, and then save (maximum value is 7)

b. Change the command line after the colon of “moreitem_button1_cmd” in configuration file, and take it as your first function button. Each command with a semicolon ";" as the interval, the whole button command line use wrap for the end. The total number of character for the entire function keys is no more than 200.

c. Others 6 buttons are the same way.

11. Wheather button needs 3D effect

Modify value after the colon of “mks_config.txt” “cfg_BUTTON_3D_effects” in configuration files. 1 is yes, 0 is no .

12. Copy file “mks_config.txt” and “mks_pic” to SD card root directory, insert SD card into MKS TFT, and restart , then the system will upgrade automatically.

Appendix 1

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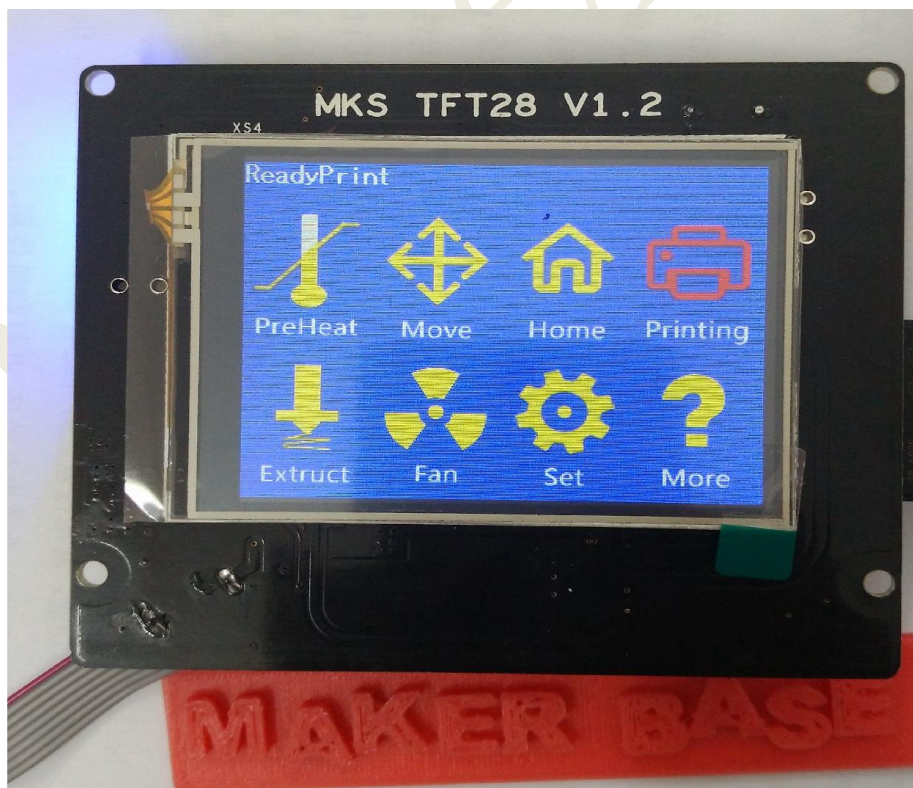
Address: Room 2110, No2 Building , Runnong Business center, No. 2, Huangcun avenue,Tianhe district , Guangzhou City,PRC

Photo naming (note that some pictures are duplicated, you need only provide one).

1. logo: bmp_logo.bin



2. "ready to print" interface:



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预热 (preHeat): bmp_preHeat.bin	移动 (Move): bmp_mov.bin	回零 (Home): bmp_zero.bin	打印 (printing): bmp_printing.bin
挤出 (extrusion): bmp_extruct.bin	风扇 (Fan): bmp_fan.bin	设置 (Set): bmp_set.bin	更多 (More): bmp_more.bin

3.PreHeat interface:



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增加 (Add): bmp_Add.bin			减少 (Dec): bmp_Dec.bin
预 热 对 象 (target): 热 床 : bmp_bed.bin 喷 头 1 : bmp_extru1. bin 喷 头 2 : bmp_extru2. bin	步进 (step): 1 度 : bmp_step1_degree .bin 5 度 : bmp_step5_degree .bin 10 度 : bmp_step10_degre e.bin	关 闭 返 回 (Close): bmp_speed0 .bin	(Back): bmp_return. bin

3. Extrusion interface:

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进料 (In): bmp_in.bin			退料 (Out): bmp_out .bin
喷头 (E): E1 bmp_extrusion	步进 (Step): 1mm bmp_step1_mm.bin	速率 (speed): slow bmp_speed_slow.	返回 (Back): bmp_ret

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1.bin	n	bin	urn.bin
E2	: 5mm	: normal	:
bmp_extru	bmp_step5_mm.bi	bmp_speed_norm	
2.bin	n	al.bin	
	10mm	: high	:
	bmp_step10_mm.	bmp_speed_high.	
	bin	bin	

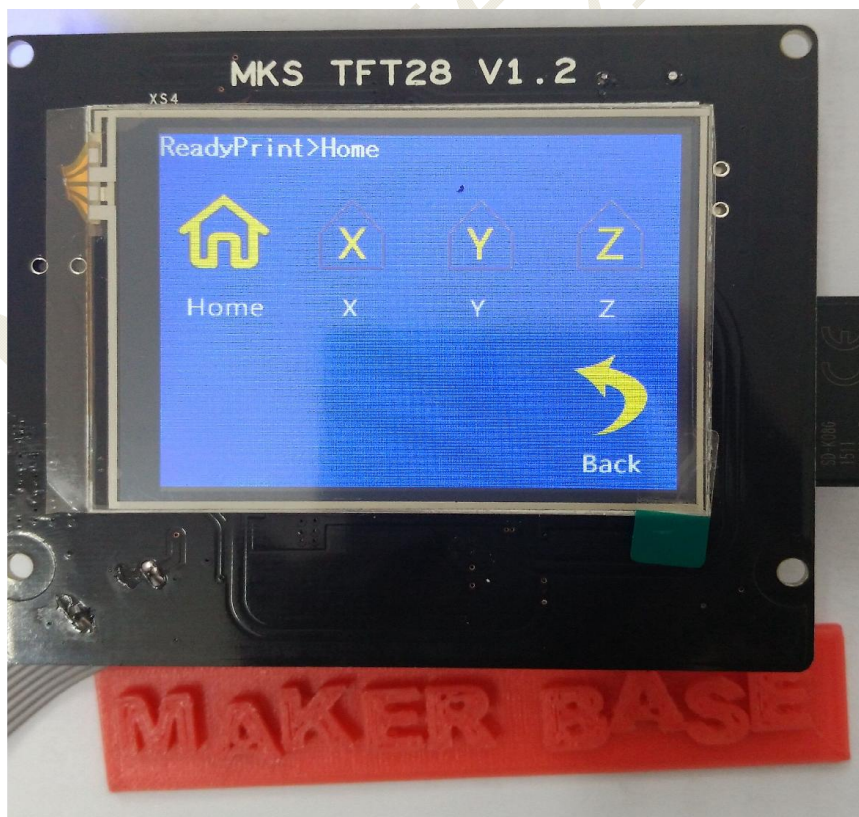
4. Move interface:



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X+: bmp_xAdd. bin	Y+: bmp_yAd d.bin	Z+: bmp_zA dd.bin	步进 (Step): 0.1mm : bmp_step_move0_1.bin 1mm : bmp_step_move1.bin 10mm : bmp_step_move10.bin
X-: bmp_xDec. bin	Y-: bmp_yDe c.bin	Z-: bmp_zD ec.bin	返回 (Back): bmp_return.bin

5. Home interface:



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全部 (Home): bmp_zeroA.bin	X: bmp_zeroX.b in	Y: bmp_zeroY.bi n	Z: bmp_zeroZ.bin
			返回 (Back): bmp_return.bi n

7. Fan interface:



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增 加 (Add): bmp_Add. bin			减 少 (Dec): bmp_Dec .bin
全 速 (Full): bmp_spee d255.bin	半速 (Half): bmp_speed127.bi n	关闭 (close): bmp_speed0.bin	返 回 (Back): bmp_ret urn.bin

8.Setting interface:



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文件系统 (File Sys): bmp_fileSys .bin	触摸校正 (Calibration): bmp_adj.bin	机型 (Machine): bmp_machine.bi n	连接 (connect) : bmp_conn ect.bin
wifi: bmp_wifi.bi n	语言 (language): bmp_lang.bin	关于 (about): bmp_about.bin	返回 (Back): bmp_retu rn.bin

9. File system interface:



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SD: 未 选 择 : bmp_sd.bin 被 选 择 : bmp_sd_sel.b in	U 盘 (udisk): 未 选 择 : bmp_usb.bin 被 选 择 : bmp_usb_sel.b in		
			返 回 (Back): bmp_retu rn.bin

10. Machine type interface



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普通 (normal): 未 选 择 : bmp_norm.bin 被 选 择 : bmp_norm_sel. bin	三角洲 (delta): 未 选 择 : bmp_delta.bin 被 选 择 : bmp_delta_sel.bi n		
			返 回 (Back): bmp_retu rn.bin

11. Connecting interface



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9600: 未 选 择 : bmp_baud9600.bi n 被 选 择 : bmp_baud9600_s el.bin	115200: 未 选 择 : bmp_baud115 200.bin 被 选 择 : bmp_baud115 200_sel.bin	250000: 未 选 择 : bmp_baud250 000.bin 被 选 择 : bmp_baud250 000_sel.bin	
			返 回 (Back): bmp_ret urn.bin

12. Language interface



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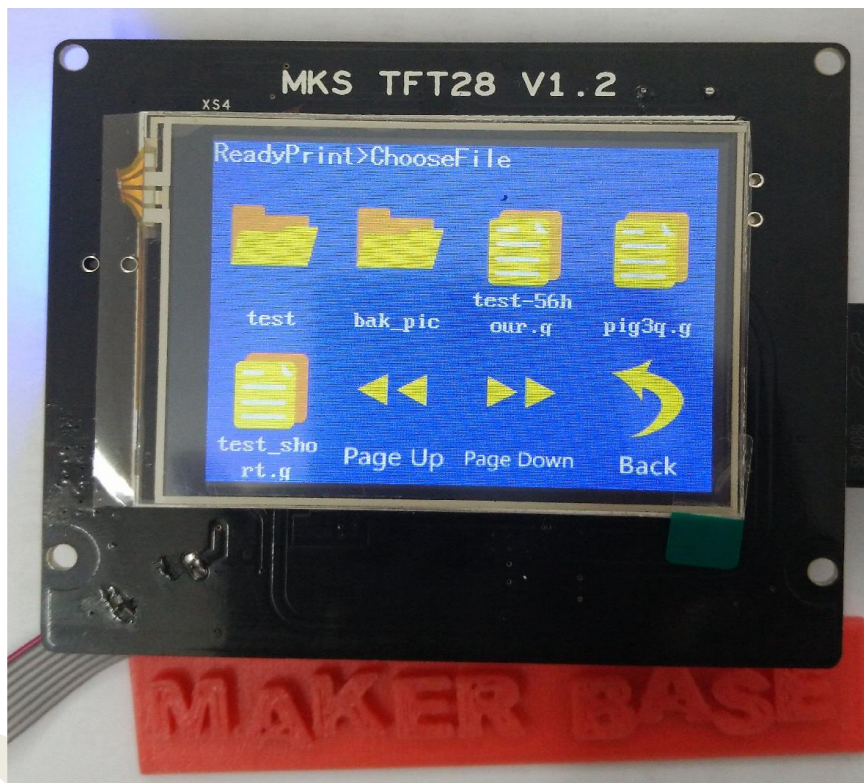
简 体 中 文 (simple Chinese): 未 选 择 : bmp_simple.bin 被 选 择 : bmp_simple_sel .bin	英文 (English): 未 选 择 : bmp_en.bin 被 选 择 : bmp_en_sel.bin		
			返 回 (Back): bmp_ret urn.bin

13.More interface

自 定 义 1(custom1): bmp_custom 1.bin	自 定 义 2(custom2): bmp_custom2 .bin	自 定 义 3(custom3): bmp_custom 3.bin	自 定 义 4(custom4) : bmp_custo m4.bin
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自定义	自定义	自定义	返回
5(custom5):	6(custom6):	7(custom7):	(Back):
bmp_custom	bmp_custom6	bmp_custom	bmp_return
5.bin	.bin	7.bin	n.bin

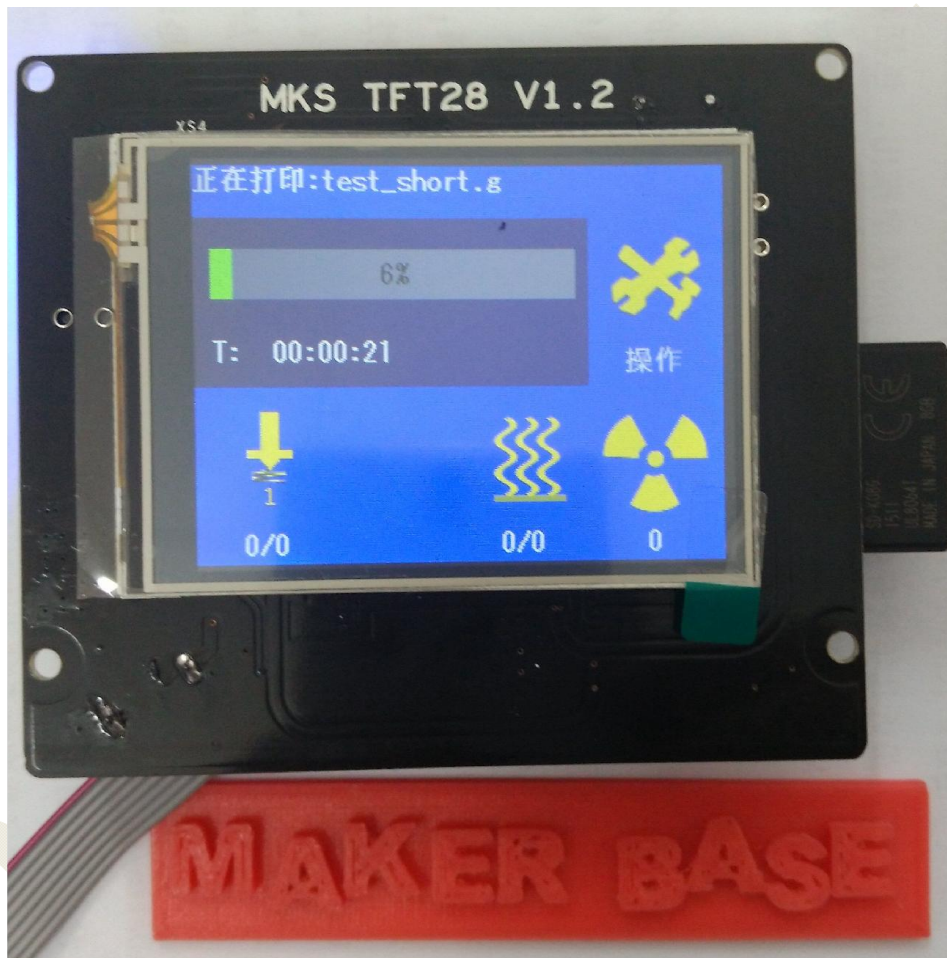
14. "Choose file" interface



文件 (file):			
bmp_file.bin			
目录 (dir):			
bmp_dir.bin			
	上一頁 (page	下一頁 (page	返回

	up): bmp_pageUp.b in	down): bmp_pageDo wn.bin	(Back): bmp_return. bin
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15. Printing interface



			操作 (option): bmp_menu.bin
喷头 1(E1): bmp_extru	喷头 2(E2): bmp_extru2	热床 (bed): bmp_bed_no_	风扇 (fan): bmp_fan_no_word

1_no_word s.bin	_no_words. bin	words.bin	s.bin 风 扇 转 动 : bmp_fan_move.bi n
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16. Option interface



暂停 (pause): bmp_pause.bin			停 止 (stop): bmp_stop.bi n
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温 度 (temperature) : bmp_temp.bin	变速 (speed) : bmp_speed.bin	风扇 (fan): bmp_fan.bin	返 回 (Back): bmp_return. bin
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17.Pause interface



恢 复 (resume): bmp_resume.b in			停 止 (stop): bmp_stop.bi n
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挤出 (Extruct): bmp_extruct.bin	移动 (move): bmp_mov.bin	风扇 (fan): bmp_fan.bin	温 度 (temperature) : bmp_temp. bin
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18. Speed interface



增加 (Add): bmp_Add.bin			减 少 (Dec) : bmp_Dec. bin
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移动 (Move): 未选择: bmp_mov.bin 被选择: bmp_mov_sel.bin	挤出(Extrude): 未选择: bmp_extrude.bin 被选择: bmp_extrude_sel.bin	步进 (Step): 1mm : bmp_step1_mm .bin 5mm : bmp_step5_mm .bin 10mm : bmp_step10_mm .bin	返回 (Back): bmp_return .bin
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2 Appendix 2

Hexadecimal value for the common color






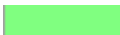



Blue		0xFF0000
Green		0x00FF00
Red		0x0000FF
yellow		0x00FFFF
Light blue		0xFF8080
Light green		0x80FF80
Light red		0x8080FF

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Cyan		0xFFFF00
Light Cyan		0xFFFF80
Light yellow		0x80FFFF
Deep green		0x008000
Deep red		0x000080
Deep blue		0x800000
Deep yellow		0x008080
Black		0x000000
White		0xFFFFFFFF