

SCRIBLES

Customizing Boot Up Screen on Raspberry Pi

Posted on August 18, 2017 by max

This is a steps to customize Raspberry Pi's boot up screen, specifically to change the splash image and remove unwanted images and texts. By default, Raspbian Jessie Desktop displays below during boot up before starting desktop GUI.

- (1) Rainbow image
- (2) Raspberry Pi Logo (image of four raspberries in the top left corner)
- (3) Boot message log
- (4) Blinking cursor for boot message logs (at the top left corner)
- (5) Splash Image ("Welcome to pixel")
- (6) One-line text under splash image

By following the steps below, we'll remove (1)-(4) and (6), then replace the default splash image with whatever you want to display at (5).

Assumption:

You should have your own splash image somewhere. In the steps below, assuming that the file name of the splash image is "my_splash.png" and it's located home directory. (i.e. "~/my_splash.png")

Here are the steps:

Remove Rainbow Screen

Open "/boot/config.txt" as root.

```
1 sudo nano /boot/config.txt
```

Then add below line at the end of the file.

```
1 disable_splash=1
```

Remove text message under splash image:

Open “/usr/share/plymouth/themes/pix/pix.script” as root.

```
1 sudo nano /usr/share/plymouth/themes/pix/pix.script
```

Then, remove (or comment out) four lines below:

```
1 message_sprite = Sprite();
2 message_sprite.SetPosition(screen_width * 0.1, screen_height * 0.9, 10000);
```

```
1 my_image = Image.Text(text, 1, 1, 1);
2 message_sprite.SetImage(my_image);
```

Note : This is a quick and dirty method I found. It works, but there might be better way.

Remove Boot Messages

Open “/boot/cmdline.txt” as root.

```
1 sudo nano /boot/cmdline.txt
```

Then, replace “console=tty1” with “console=tty3”. This redirects boot messages to tty3.

Remove other things

Still in “/boot/cmdline.txt”, add below at the end of the line

```
1 splash quiet plymouth.ignore-serial-consoles logo.nologo vt.global_cursor_default=0
```

Here are brief explanations.

‘splash’ : enables splash image

‘quiet’ : disable boot message texts

‘plymouth.ignore-serial-consoles’ : not sure about this but seems it’s required when use Plymouth.

‘logo.nologo’ : removes Raspberry Pi logo in top left corner.

‘vt.global_cursor_default=0’ : removes blinking cursor.

Note : The first three should be there by default, but make sure if those exist.

Replace Splash Image

Now, everything unwanted images and texts are gone. Let’s replace the default splash image (/usr/share/plymouth/themes/pix/splash.png) with your own splash image.

```
1 sudo cp ~/my_splash.png /usr/share/plymouth/themes/pix/splash.png
```

Note : As described in above assumption, “my_splash.png” should be your new splash image.

Verify the costumed boot up screen

Check the boot up screen by simply rebooting.

Reference:

Guide: A custom splash screen on the Raspberry Pi, for Raspbian Jessie

<https://yingtongli.me/blog/2016/12/21/splash.html>

Custom boot up screen

<http://www.raspberry-projects.com/pi/pi-operating-systems/raspbian/custom-boot-up-screen>

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5 Comments



Wolfgang says:

[July 10, 2019 at 9:13 pm](#)

Hi Max, thanks for these instructions. Would you know how this can work with Raspbian Buster?

Reply

max says:

[July 10, 2019 at 10:48 pm](#)

Hi Wolfgang,

I just tested with Raspbian Buster and confirmed that it still works. Are you facing any problem?

One thing I noticed was that the time showing the splash image is very short (less than 1 sec) on Raspberry Pi 4B+.

Reply

arka says:

[August 9, 2019 at 7:31 am](#)

its not working on raspberry 3b+ BUSTER

i still see logging info on screen and login prompt at the end

```
dwc_otg.lpm_enable=0 console=serial0,115200 console=tty3 loglevel=3 root=PARTUUID=739ce287-02 rootfstype=ext4 elevator=deadline fsck.repair=yes rootwait quiet plymouth.ignore-serial-  
consoles logo.nologo vt.global_cursor_default=0
```

if add SPLASH to the line i see also a SPLASH screen

Reply

Jazz says:

September 9, 2019 at 11:39 pm

I use 3B+. To remove the scrolling text when bootup, i removed console=tty1 (by default); not using it at all. I found this from raspberrypi.org forum.
Make sure all commands on one line in cmdline.txt.

Reply

Norm says:

September 20, 2019 at 5:33 pm

I have been through the instructions a couple of times. I get a series of black screens, but not my splash screen. Using RP 4 with 4GB RAM

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