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Pseudo-random ramblings about programming and other geeky stuff

Sunday, 3 March 2013

Low-level Graphics on Raspberry Pi [part four]

In the part three we saw how to plot individual pixels in the framebuffer. Now let's turn the plot-pixel code into a reusable function.

First we need to move some of the variables outside of the main function, so we can access them in the new function - then we just move the pixel plotting code from the main into the new function and make main to call it. We will also move the 'draw' code into another function to separate it from the main and make it easier to read.

```
// the main function when just want to change what to draw...
void draw() {
```

Blog Archive

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 - ► February (1)
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Code Repository

Discussion

links

```
int main(int argc, char* argv[])
     struct fb_var_screeninfo orig_vinfo;
     // Open the file for reading and writing
    // Change variable info
    if (ioctl(fbfd, FBIOPUT_VSCREENINFO, &vinfo)) {
  printf("Error setting variable information.\n");
     // Get fixed screen information
                 MAP SHARED,
    munmap(fbp, screensize);
if (ioctl(fbfd, FBIOPUT_VSCREENINFO, &orig_vinfo)) {
     return 0;
```

Now save the file as fbtest4.c, compile with make fbtest4.c and execute ./fbtest4-you should see the same vertical color bars at the upper half of the screen

