
Subject: Re: Single Pixel Wide Straight Lines
Posted by [devilsclaw](#) on Fri, 14 Oct 2022 21:33:49 GMT
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So I figured out what is going on. Lines are painted from the center / origin of the point so if you say line is at y coord 10 and have a line width of 3 it will be 1.5 pixels below and above instead of starting the line at 10 and having 3 lines going down from the starting point.

This means all odd line sizes as in 1,2,5,7,9 etc will be the incorrect size with any integer based drawing on everything except Draw its self it seems. I believe this is the wrong way to draw a line it should not be center radial.

This code example shows it working and clean lines

```
void Paint(Draw &w) {
    Size sz = GetSize();
    ImageBuffer ib(sz);
    BufferPainter sw(ib, MODE_ANTI_ALIAS);

    sw.DrawRect(sz, Black());

    int pos_y = 0;
    for(int stroke = 1; true; stroke += 1) {
        double center_of_line = stroke / 2.0;
        sw.Move( 0, pos_y + center_of_line).Line(sz.cx, pos_y + center_of_line).Stroke(stroke, Red());
        pos_y += (stroke * 2);
        if(pos_y >= sz.cy) {
            break;
        }
    }
}
```

File Attachments

1) [Screenshot_2022-10-14_14-34-02.png](#), downloaded 460 times
