## Distance Measure

## April 28, 2019

Out[2]: <matplotlib.image.AxesImage at 0x1298e2c88>



```
In [6]: print(img[0][0])
[88 77 57]
```

```
In [1]: class Pixel():
            def __init__(self,x,y):
                self.x = x
                self.y = y
In [3]: np.power(2,3)
Out[3]: 8
In [4]: def euclid(p1,p2):
            dis = np.sqrt(np.power((p1.x-p2.x),2)+np.power((p1.y-p2.y),2))
            return dis
In [5]: def city_block(p1,p2):
            return np.absolute(p1.x-p2.x)+np.absolute(p1.y-p2.y)
In [6]: def chessboard(p1,p2):
            return max(np.absolute(p1.x-p2.x),np.absolute(p1.y-p2.y))
In [8]: p1 = Pixel(2,10)
        p2 = Pixel(8,6)
In [9]: print(euclid(p1,p2))
7.211102550927978
In [10]: print(city_block(p1,p2))
10
In [11]: print(chessboard(p1,p2))
6
In []:
```