

1) Plot the results using “gnuplot”, and save the 3-D figure.

The name file should be “plot.png”, and the coordinates are as follows:

$$(X, Y, Z) = (v, r, b)$$

From the figure, try to describe the relation between  $b$  and  $(v, r)$ .

2) Add the results for algorithm assignment here.

$$\text{Slow} = 1 - (|20 - \text{Speed}| / 20)$$

$$\text{Normal} = 1 - (|40 - \text{Speed}| / 20)$$

$$\text{A little bit fast} = 1 - (|60 - \text{Speed}| / 20)$$

$$\text{Fast} = 1 - (|80 - \text{Speed}| / 20)$$