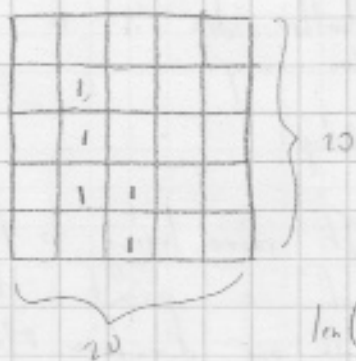


Weight Gradient 1.0

Game Gradient: Calculate gradient of window

Need to make
2-D Array \rightarrow
of Tile spaces.

Python doesn't do
this inherently.



Blank tiles have weight 0.

Snake has weight of 1.

starting from head
calculate adjacent
weights

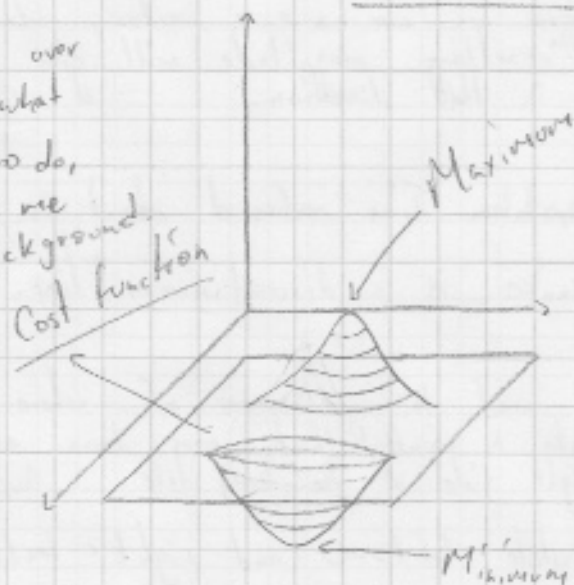
$\ln(\text{grid})$ should equal 400
(20*20)

Need to calculate weighted average of
Every node (Tile) in the window. This
is to represent places on window that's
"heaviest" based on how close or far away a
Tile is to the snake.

[On creation of
object every Tile's
weight is 0]

This is known as Gradient Descent

I think is over
complicating what
I'm trying to do,
but it gives me
a good background.



The whole point of this is
to minimize the Cost function.

Might be a useful equation:

cost function $\rightarrow f(m, b) = \frac{1}{N} \sum_{i=1}^N (y_i - mx_i + b)^2$

where m & b are
weight and bias.

- our bias is 0.

- Weight is 1 where snake is.

- x is collection of nodes

- y is collection of nodes

Problem with this is it doesn't
help me calculate the gradient itself.

Neat idea though. I can use this in
the future.