**M3 D6**

Linear Regression:

* Takes messy data and turns into a readable line.
* Line is straight (hence linear)

Logistic Regression: - TODAYS EXERCISES

* Turns messy data into a readable line.
* Line is usually curved(?)

Multinominal Logistic Regression:

* ???

**Tasks:**

* ~~Create a sigmoid function~~.
  + ~~Is there a built-in method for this?~~
  + ~~What is sigmoid?~~
  + ~~How do we write it out mathematically?~~
    - ~~What do the letter placeholders represent in relation to our fake data?~~
* ~~Function that calculates the log-likelihood:~~
  + ~~Is there a built-in method to do this?~~
  + Features = simulated\_separableish\_features
  + Target = simulated\_labels
  + Weights = ?
  + ~~KEY NOTES:~~
    - ~~Getattr() is dealing with classes. Over complicating the work~~
* ~~Build the full Logistic Regression Function~~
  + ~~KEY NOTES:~~
    - ~~Double check line by line spelling~~
* Compare to SKLearns Logistic Regression
* Test accuracy

Debrief questions: