

**Source:****Types of ML**

- Supervised
  - Linear regression
    - Good for predicting the outcome of independent variables
    - We are trying to find a line –  $y=mx+b$
    - What about with more features?
      - Just add dimensions
      - Not as visual, but math is the same
  - Helps to relate variables
  - Not good for:
    - What type of tree is x based upon height and width?
    - Not a numeric output
    - Can't just assign numbers to words, as 0-1-2 is related to each other; say, model says its a combo of 1 and 2, comes out to a 1, which DOESN'T work. (idk why that auto capitalized)
  - Very fast and simple, which makes output easy to understand
  - ==Assumes linear relation between incomes and outputs==
    - Important to visualize our data even after we run out model Screen Shot 2020-08-26 at 1.25.42 PM.png
    - These all have the same best fit line, the same x mean, y mean, x y standard dev, and a bunch more
- Unsupervised
- Semi-Supervised

**Used for:**

- Classification
- Clustering
  - Find related data points
- Regression
- Translation
- Anomaly Detection
  - [\[KB Poker\]\\_With\\_Wes Poker Story](#)
- Generation

**Important terms:**

Weights Labels