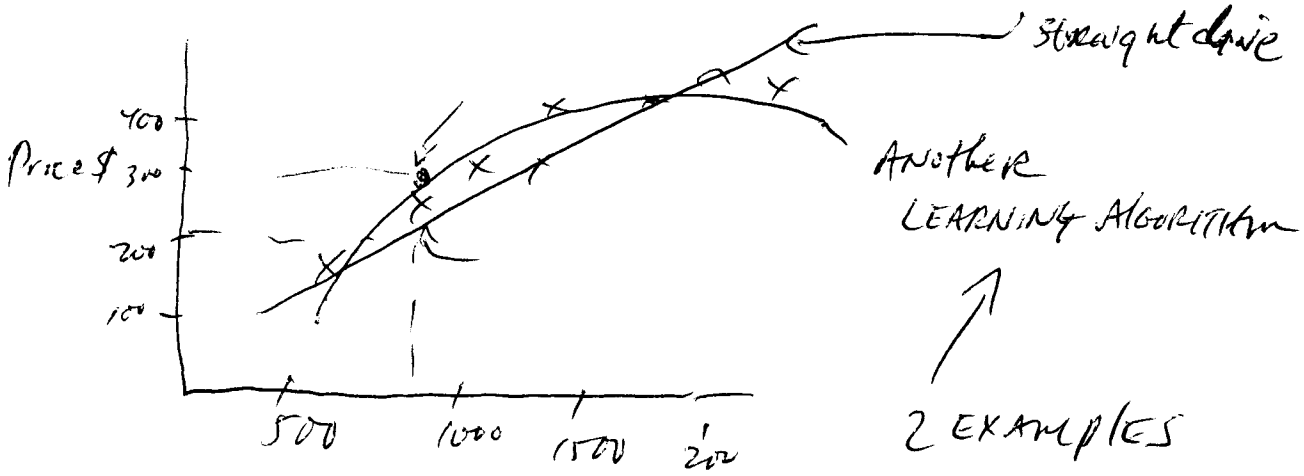
10/3/16.

MACHINE LEARNING

Supervised LEARNING

House price prediction

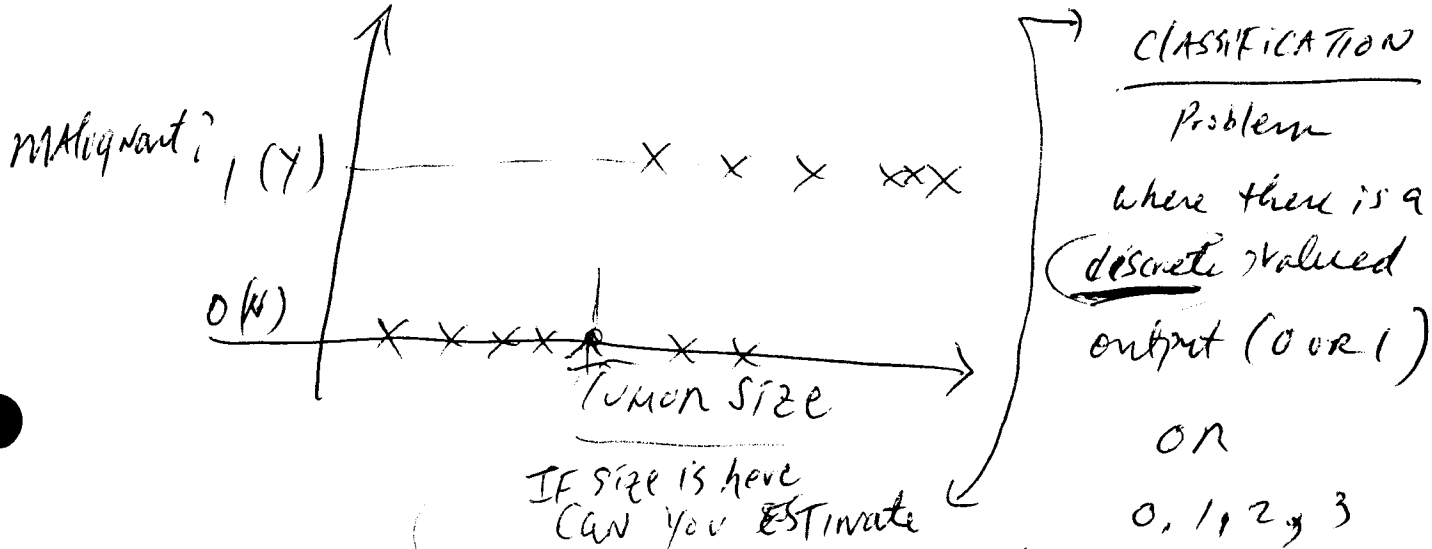


"Supervised LEARNING Algorithm" — give the RIGHT Price, "RIGHT Answers" GIVEN

Also called Regression : Predicts CONTINUOUS Valued output (Price)

ANOTHER EXAMPLE.

Breast Cancer



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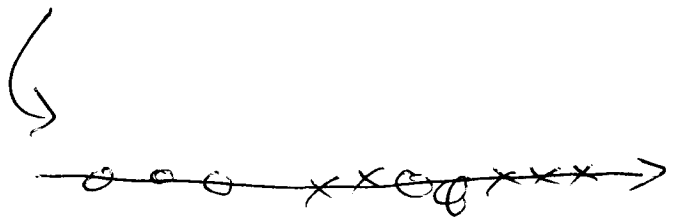
There's another way to plot a classification problem

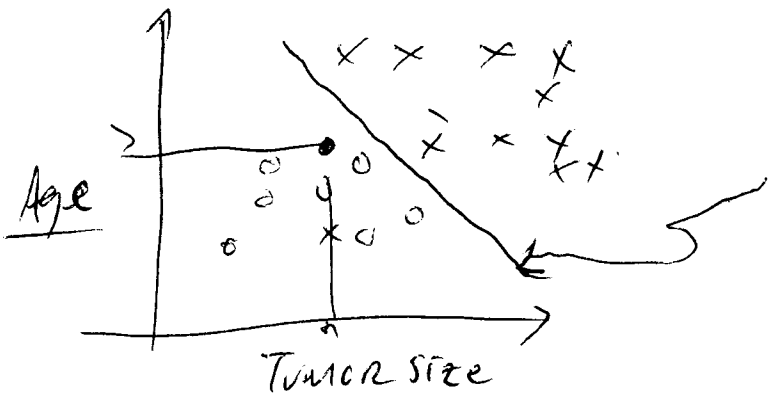


O = benign
X = malignant

We are using one ~~Attribute~~ ATTRIBUTE

But there can be other Attributes or features.

eg Age



Learning algorithm may draw line to separate the data to determine changes of tumor

2 features

other problems will have more features.

- clump thickness
- Uniformity of Cell Size
- Uniformity of Cell Shape
- ...

One learning algorithm can deal with an ~~Infinite~~ INFINITE # of features or attributes.