* Unit 1 Intro to machine learning and more
  + What is machine learning
    - Decides if an email should go into spam
    - Returns a name when given a picture of someone
    - Triggers an alert if a credit card transaction is fraudulent
    - Presents the most releveant webpages from a query
  + Exzample
    - Start with an object
    - Analysize Key points
    - Run through classificuations
    - Output wheither or not it is a car
  + Deinging
    - Complicated and not a single defi
    - Agreement
      * Finds pattersn in data nad uses those to
      * make predictions
      * Allows computers to learn from the data
    - Big part of our lives
  + How to define
    - Study of methods for designing intelligent software
    - The goal is produce an expert system for use in a particular knowledge domain
    - Devising algorithms that learn automatically without online human intervention in the learning process
  + A Def
    - If data is characterized as recorded facts, then information is the set of patterns expectation that underlie the data information that is potentially important but has but has not yet been discovered or articulated Our mission is to bring it forth
  + Traditional Programing
    - Develop an Algorithm
    - Implement
    - Use
  + Machine Learning
    - Data Collection
    - Experimenting with different algorithms to build a better model
    - Use
  + Differences
    - Log Analysis
      * Collection log data
      * Cleaning it
      * Structure
      * Analysis it
      * Obtain results
    - Data Mining
      * Define a problem
      * Id required data
      * Prepare and pre prices
    - Parent Recognition
      * Take raw data
      * Clean to the target
      * Preprocess
      * Look for patterns
    - Machine Learning
    - Deep Learning