# Object oriented analysis

* Abbott and Booch 1990
* Requirements analysis technique
* Modelling real world objects based on their descriptions
* Produce object analysis model
* UML class model diagrams

How does OOA Work?

* Takes textual representation of the problem (like a specification)
* Identify words to build up descriptions
  + Nouns -> Classes
  + Verbs/Actions -> Operations
  + Descriptive/Adjectives -> Attributes
  + Doing/Stative Verbs -> Relationships

Technique

1. Obtain/Prepare text description of the problem
2. Underline ALL the nouns (even duplicates)
3. Organize nouns into groups – these become candidate classes
4. Underline ALL the adjectives.
5. Assign the adjectives as attributes of the candidate classes
6. Underline ALL the verbs, differentiating by:
   1. Actions Verbs e.g. walk, skip, ride, reads
   2. Stative Verbs (state rather than action) e.g. feels, recognize, appreciated
7. Assign Actions verbs as Operations of classes
8. Assign Stative verbs as Attributres or Relationships of a class.

Caveat

* Conclusion that are reached from the analysis are ALWAYS tentative.
* Questions during process will require self-research and asking questions of the customer.
* Inherently incremental process