# 8/24/17

* Programming Language: Notational system for expressing computation in both human readable and machine readable format.
* Control abstraction
  + If stmts, loops, subroutines, libraries
* Data abstraction;
  + Double y = 3.47821;
  + Int x = 34;
  + Structs/records
  + arrays
* Object oriented programming (O.O.)
  + Combines methods and structures.
  + Encapsulation
  + Private
  + Grouping of data and methods
  + Abstraction
* Soft real time: streaming audio/video,
  + It can “fail a little”
* Hard real time
  + It **cannot** fail
* Readability criteria
  + Orthogonality
  + Support for abstraction
  + expressivity