* Understand problem
  + Communication and analysis
  + Specification: what system should do
* Plan solution
  + Feasibility study:
    - Is proposed system worthwhile and doable?
  + FUNCTIONAL REQUIREMENTS
  + NON-FUNCTIONAL REQUIREMENTS
  + Design & implementation:
    - defining organization & creating system
  + Modeling and software design
    - Cowboy Coding / Code-and-fix
    - Ad-hoc, not well-defined
    - Focuses on *what*, not *how*

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* + Waterfall
    - Sequential, doesn’t capture evolutionary/iterative nature of software
* Carry out plan
  + Implement code
* Examine result(s) for accuracy
  + Testing validation: Does system do what it is supposed to do?
    - Quality assurance
    - **Validity**. Does system provide functions which best support the customer’s needs?
    - **Consistency**. Are there any requirements conflicts?
    - **Completeness**. Are all functions required by customer included?
* Delivery/Deployment
  + Give it to client
* Evolution: Changing system in response to customer needs
  + **Realism**. Can requirements be implemented given available budget and technology?