Notes

CSC144 Software Architecture

20 March 2017

- Fred Brooks

  - Worked at IBM
  - Was in charge of the IBM 360 project
  - drew lessons from his experience
  - e.g., hiring more people might slow rather than speed up progress!
  - Wrote the essay titled The Mythical Man-Month
  - The essay was later developed into a book

- Waterfall model

  - sequential, assumes that we can know requirements at the start
  - Requirements Analysis (What do the people want?)
  - Specifications (quantify requirements)
  - Design
  - Coding
  - Test Run (lots of testing)
  - Release the beast and teach
  - maintenance (the hard stuff)
  - Run it till the wheels fall off

- Agile

  - get something in the hands of customers as quickly as possible—"minimum viable product (MVP)"
  - short deadlines—2 weeks
  - Simplicity for the masses to modify for constant optimization
  - Frequent feedback
  - Testing and coding begin simultaneously
  - Small teams (two pizzas make a team)