PSP/TSP

- Does it work?
  - Primary goals:
    - Predict time
    - Higher quality products
    - Improved productivity
  - Secondary goal
    - Encourage you to use a scientifically sound basis for deciding between alternative approaches
- Does it meet any of its stated goals?
- Could it work?
  - What changes would help?

PSP/TSP

- Process steps?
- Data?
- Reviews?
- Inspections?
- What's the best part?
  - What would you keep (if any)?
- What's the worst part?
  - What would you omit (if any)?
PSP/TSP (cont.)

- If it is taught:
  - Wait until people have worked a few years (and been involved in a few large software projects)
  - Taught concurrently with 1st programming course
  - Never. It doesn't work

Extreme Programming

- Better than PSP/TSP?
  - Always?
  - Most of the time
  - Depends on project
  - Sometimes
  - Never

Open Programming

- Better than PSP/TSP
- No different
- Worse
I suspect:
- If goal is high quality:
  - These *very* different techniques aren’t so different in reality
  - Reviews work
  - Spending more time on design than coding works
  - Inspections?

I also suspect:
- Coding jobs aren’t safe
  - Easiest part of software development task
- Most fun parts:
  - Understanding what technology can do for an organization
  - Constructing requirements
  - Building robust, effective designs
- Keep learning!
  - Or your job will go offshore!

This business is about change!
- C++ will go away
- Windows will go away
  - Or get hidden so deeply that it will seem to for most people
- Microsoft will go away
- So keep learning!
As we gave industry better software tools:

- Industry responds by building bigger, more complex systems
- Industry does not build systems that cost more to build than they are worth
  - Assuming that the costs & benefits can be reasonably estimated
- For many, the most fun is building systems that seem just barely feasible!

Find tasks you enjoy!

- Stay in front of technology changes
- Make change work for you
  - Rather than against you!
- Pick jobs that can’t easily move offshore

Final Exam Info

- In-class exam: Wed. May 4, 3:45-6:45 in class room
- Take-home part: Hardcopy must be brought to class and turned in with final
- Will be available by Monday