

CS 350, slide set 14

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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 off-shore

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
