



Administrivia

- n Informal feedback meetings with LCO groups
 - n FantasySportsLeague: still to come today
- n Individual assignment #1 due this Fri by 10pm
- n Group assignment #2 (LCA) announced
 - n Due in two parts, next Tue and Thu
 - n LCA presentations in class next Wed

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Lecture 07: Team Environment Issues (Part II)

"Talent wins games, but teamwork and intelligence wins championships." -- Michael Jordan

"We must all hang together or assuredly, we shall all hang separately." -- Benjamin Franklin

"If a team is to reach its potential, each member must be willing to subordinate his personal goals to the good of the team." -- Bud Wilkinson

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Outline

- n Team Models
- n Creating a High-Performance Team
- n Motivation Factors and Killers

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Resources

- n "*Rapid Development*", by Steve McConnell
 - n Ch. 12, 13
- n "*The Pragmatic Programmer*", by Andrew Hunt and David Thomas
 - n Ch. 8 (section 41: pp.224-230)
- n Guest lecture by David Schmaltz & Amy Schwab
 - n From summer 2003

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Software Teams

- n Typically, software development teams include:
 - n Several "developers" in a broad sense: programmers, testers
 - n A person with lead developer/architect responsibilities
 - n A person with functional management responsibilities
 - n A person with project management responsibilities
- n These could be *all different* team members!

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Team Models and Management Structures

- n **Dominion model**

- n Pros: clear chain of responsibility; people are used to it
- n Cons: single point of failure at the commander; less or no sense of ownership by everyone

- n **Communion model**

- n Pros: a community of leaders, each in his/her own domain; inherent sense of ownership
- n Cons: people aren't used to it (and this scares them)

Note: Both models allow for having a point-of-contact person, responsible for completing a particular task.

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Specifically for Your Team...

- n Who will do the scheduling/planning?
- n Who will do the development?
- n Who will do the testing?
- n Who will do the documentation?
 - n Includes spec, design, write-ups, presentations, ...
- n Who will do the build/release preparation?
- n Who will take care of inter-team communication?
- n Who will do the customer communication?
- n Who will do ...?

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More on Team Organization

Pragmatic Programmer Tip:

“Organize Around Functionality, Not Job Functions”

- n What are some benefits of organizing teams around:
 - n ... functionality?
 - n ... job functions?
- n In what context(s) might the former be superior?

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Creating a High-Performance Team

Typically, teams go through 4 stages:

- 1. Forming**
 - Exploration period, cautious and guarded, exploring boundaries
- 2. Storming**
 - Deals with issues of power, control, leadership
- 3. Norming**
 - Establish cohesiveness among team members
 - Appreciate differences, trust begins to evolve
- 4. Performing**
 - Full functioning of team
 - Leadership is participative and shared
 - Sense of identity and high level of work accomplishment

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How Can a Team Start “Performing” Faster?

- n **Forming stage**
 - n Clarify team’s purpose and goals
 - n Clarify responsibility of each member
 - n Validate skills each team member brings
 - n Identify communication methods
- n **Storming stage**
 - n Establish norms of discussions
 - n Model openness in resolving conflict
 - n Ensure everyone participates on all key issues
- n **Norming stage**
 - n Let members take on more responsibility as productivity increases
 - n Chart progress! Reward successes!
 - n Reduce meeting time as things become smooth

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What is Common among High-Performance Team Models?

Results-driven structures:

- n **Clear roles and responsibilities**
 - n Each person knows and is accountable for their work
- n **Monitor individual performance**
 - n Who is doing what, are we getting the work done?
- n **Effective communication system**
 - n Available, credible, tracking of issues, decisions
- n **Fact based decisions**
 - n Focus on the facts, not the politics, personalities, ...

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Motivation

“Motivation is undoubtedly the single greatest influence on how well people perform. Most productivity studies have found that motivation has a stronger influence on productivity than any other factor.”

-- Barry Boehm (1981)

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Motivation Factors

Think for a moment of up to 3 factors that most often affect your motivation!

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Motivation Factors for You?

- n Achievement
- n Recognition
- n Advancement
- n Salary
- n Possibility for growth
- n Interpersonal relationships
 - n Subordinate
 - n Superior
 - n Peer
- n Status
- n Technical supervision opportunities
- n Company policies
- n Work itself
- n Work conditions
- n Personal life
- n Job security
- n Responsibility
- n Competition
- n Time pressure
- n Tangible goals
- n Other?

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Motivation Killers

Do you recall situations in which people around you managed to "kill" your motivation (whether intentionally or not)? How did they do that?

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Motivation Killers (and There Are More...)

- n Micro-management or no management
- n Lack of ownership
- n Lack of effective reward structure
 - n Including lack of simple appreciation for job well done
- n Excessive pressure and resulting "burnout"
- n Allowing "broken windows" to persist
- n Lack of focus in the overall direction
- n Productivity barriers
 - n Asking too much; not allowing sufficient learning time; using the wrong tools
- n Too little challenge
- n Work not aligned with personal interests and goals
- n Poor communication inside the team

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What is Dilbert Motivated and De-motivated by?

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