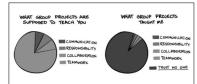
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Group Dynamics Effective Meetings



What makes a great project team?

- · Together must cover all aspects of a project
- · Diverse Skills
 - Intellectual: requirements, design, code, test
 - Managerial: estimation, planning, scheduling, reporting
 - People skills: communication (written, verbal), negotiation, collaboration
- Coherence
 - Shared expectations
 - Ability to construct and work toward a shared vision
- · Mutual Respect and Responsibility
 - You don't *have* to like each other, but you *need* to trust and respect each other and to earn your teammates trust and respect
 - This is an enduring part of professionalism in the real world

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Roles and Responsibilities

- Roles should reflect ownership of responsibilities
- Each role is responsible for specific activities and artifacts
 - Manager: responsible for schedule
- Tester: responsible for test plan, unit testing
- A person in the role owns the corresponding artifacts
 - Does not mean he/she does all the work
 - Does mean he/she is responsible for artifact's completeness and quality
- Project Risk: failure to be specific about individual responsibilities and holding people accountable
 - One of the most frequently cited project problems

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What do software developers do?

- One way to measure: how do they spend their time?
- IBM study (McCue 78):
 - 50% team interactions
 - 30% working alone
 - 20% not directly productive

i.e., Technical excellence is not enough

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"Egoless" design

(Weinberg, Psychology of Computer Programming)

- · Investing ego in group
- "Letting go" of ego investment in code, design, ideas
 - No winning or losing design debates
 - (focus on improving the product)
 - Once contributed, ideas and artifacts belong to the group
 - Criticism is aimed at artifacts, not people
- · The best designers criticize their own designs!
 - Our own assumptions are the hardest to critique
 - Corollary: A good critic is your best ally
 The hardest lesson to learn but one of the most valuable
 - The hardest lesson to learn but one of the most valuable
 Applies to all aspects of profession and life
 - Applies to all aspects of profession and

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... but we are not egoless people

- · Ego investment is normal
 - be aware of it, be in control of it
- · Consider the egos of others
 - Examine your own motivations: What are you attacking? Why?
 - What is motivation of the other person?
 - · Are they feeling ignored? Not valued?
- Pride in accomplishment is ok, unless it interferes with accomplishment

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Consensus Decision Making

- Consensus is not counting votes
 - Democracy is 51% agreement
 - Unanimity is 100% agreement
- Consensus is neither
 - Everyone has their say
 - Everyone accepts the decision, even if they do not prefer it
 - It is "buying in" by group as a whole, including those who
- · Usually best approach for peer groups
 - "Buy-in" is critical for coordinated effort

Consensus takes time and work, but is worthwhile

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Conflict

- · Can destroy a team if not carefully managed
- · Manage conflict constructively

· Can be healthy and productive

- Soothe and protect egos
 - Everyone's job, but especially the manager's job
- Keep conflict on a technical level (not personal)
- Reward conflict resolution
- If team really cannot reach resolution, talk to instructor

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Being a Good Team Member

- · Attributes most valued by other team members
 - Dependability
 - When you say you'll do something, you do it
 - Correctly
 - On time
 - Carrying your own weight (doing a fair share of the work)
 - People will overlook almost everything else if you do these
- · Also part of your grade
 - Collect from peer evaluations, blogs, etc.
 - Can significantly raise or lower project grade

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A Word on Managing

- A good manager supplies what is needed for the team to succeed. This includes (but is not limited to)
 - Resources
 - Planning and coordination
 - Pitching in when needed
- Protection (especially from upper management)
- Emotional support, etc.
- Good managers are are leaders not dictators (especially true for peer teams)
- · Good managers are rare

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Effective Meetings

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Notes on effective meetings

- Only hold meetings if <u>necessary</u>
 - "Necessary" means that the most cost effective way to accomplish a goal is by meeting
- Have a goal, and a plan (agenda)
 - Clear meeting objectives
 - Known to all in advance (I.e, distribute via email)
- Plan to goal:
 - Participants Invite only the necessary people
 - Schedule
- Intended outcome
- Prepare
 - Cost of wasted time = Time x people x hourly cost
 - Cost of individual prep time is much less

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Notes on effective meetings (2)	
Start on time, end on time Write down and disseminate the results Leaves an audit trail of decisions Makes people feel included Limits the number of (informational) invitees End with concrete, specific action items What must be done Who should do it What the follow-up is	
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Quantiana?	
Questions?	

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