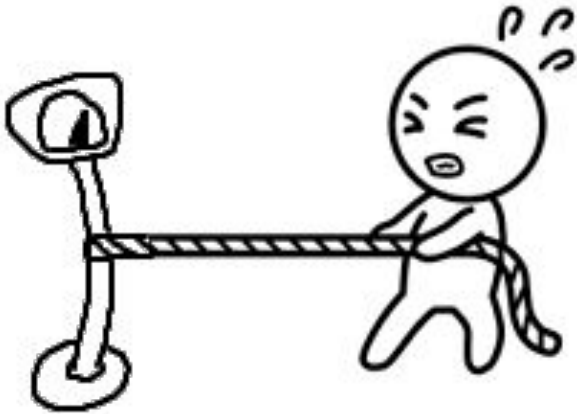


COSC 499: Capstone Software Engineering Project

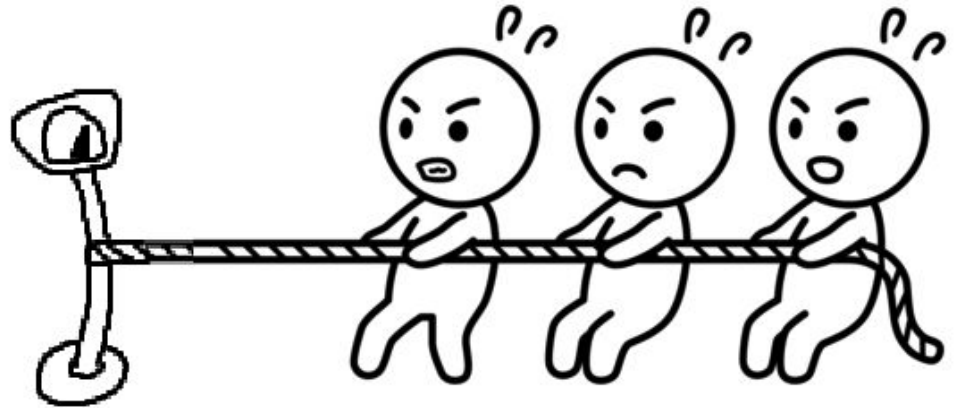
Dr. Bowen Hui
Computer Science
University of British Columbia Okanagan

Studies from Social Psychology

- Series of studies in 1980's measured individual vs. team effort



Scenario 1: Work Alone



Scenario 2: Work in Team

Results on Social Behavior



- **Social compensation:** The phenomenon that people will put extra effort to compensate for weaker members in a team

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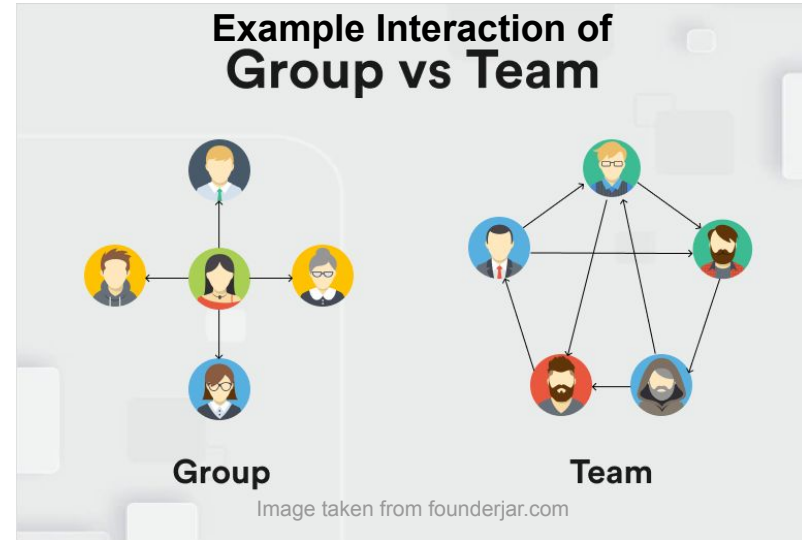
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 - Exception observed when every individual must meet the same goal; in which case, the latter exhibits extra effort to make up for weaker skills
- Implications for results-driven teamwork (i.e., school and workplace)
 - What is your end goal? When are you "done"? → **goal-orientation**
 - Is any individual **irreplaceable**?

Groups vs. Teams

- **Groups** tend to divide-and-conquer without integration
 - Individuals work alongside each other, but are often unfamiliar with each other's work
 - Their output is like a jigsaw puzzle pieced together, but edges remain rough
- **Teams** differ in their cohesiveness
 - Individuals support each other
 - Their output is one coherent product
- Your school experience: groups or teams?

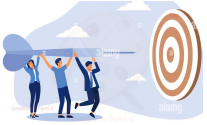


Research in Teamwork

- Mostly research from nursing/medical practitioners, sociology, psychology, business, engineering
- Models of team stages, team characteristics, quantitative diagnostics

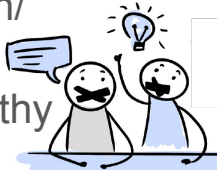
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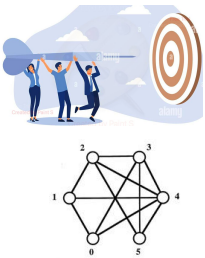
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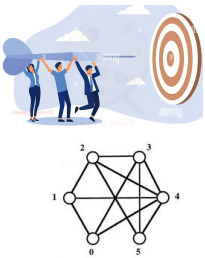
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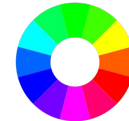
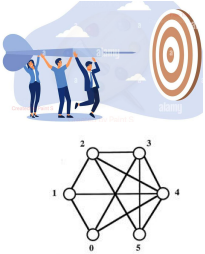
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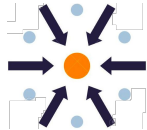
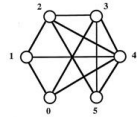
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- **Diversity of Skills:** complementary skills to ensure project success
- **External factors:** project resources, company infrastructure, performance feedback



Impact on Our Capstone Course

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 - **Diversity of skills** - things you should consider when selecting teammates
 - **Performance feedback** - regular peer and staff evaluations

Self-Awareness with Teamwork Preferences (~5 min)

- Go to Canvas course for Capstone, select "Quizzes"
 - Select "Self-Awareness with Teamwork Preferences"
- Think about your personal preferences on:
 - The type of person you might wish to work with
 - The type of work you enjoy or dislike doing
 - The type of interaction you would prefer or expect in a team
- Let's complete it together



Questions



- Questions 1-5 is about identity/relationships in team composition

Questions



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- Questions 6-7 is about work you like and dislike doing

Questions



- Questions 1-5 is about identity/relationships in team composition
- Questions 6-7 is about work you like and dislike doing
- Question 8 is about task allocation

Questions



- Questions 1-5 is about identity/relationships in team composition
- Questions 6-7 is about work you like and dislike doing
- Question 8 is about task allocation
- Questions 9-10 is about leadership and decision-making

Next Week



- Figure out your teams
- Review project options and client interaction
- Go over project planning and reporting
- Questions?
 - Course questions?
 - Registration issues/questions?
 - Accommodations needed?