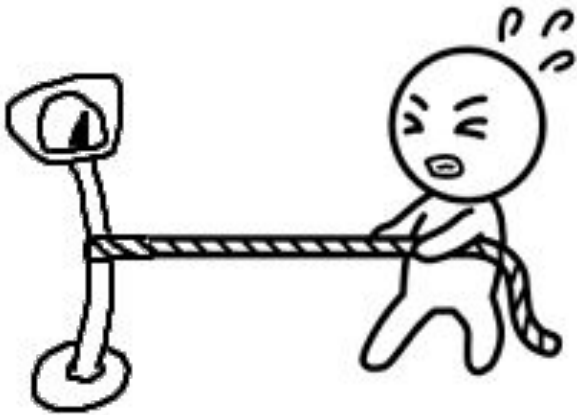


# COSC 499: Capstone Software Engineering Project

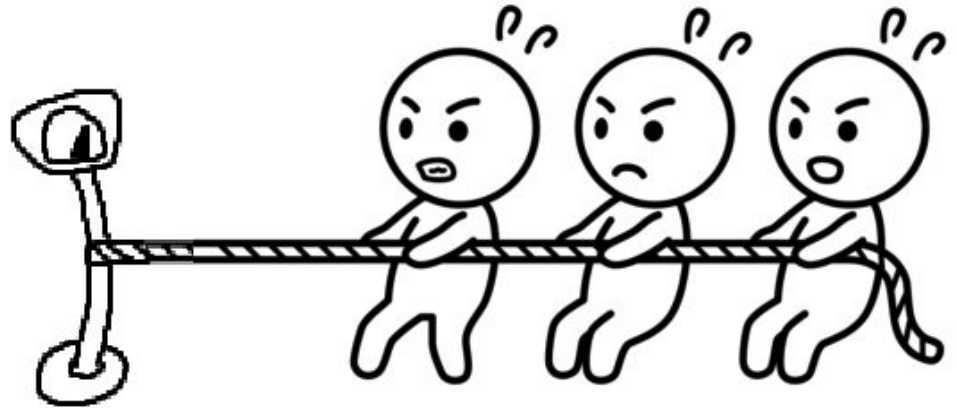
Dr. Bowen Hui  
Computer Science  
University of British Columbia Okanagan

# 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



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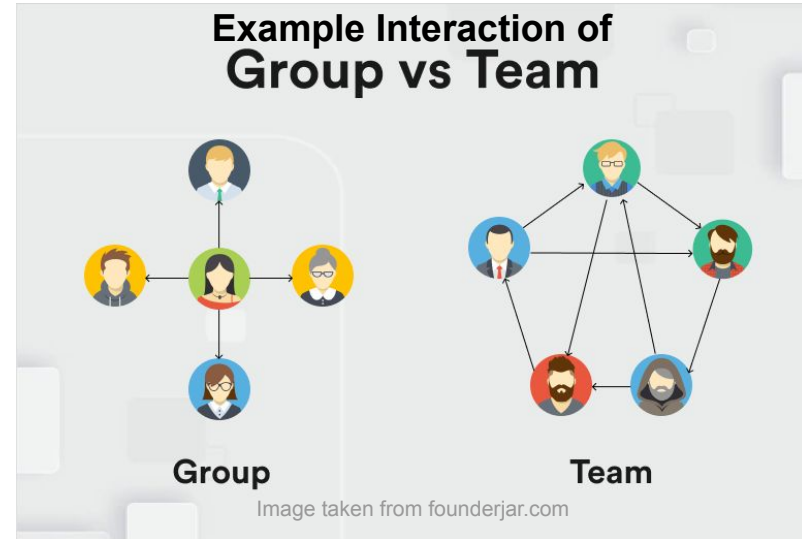
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  - Exception observed when every individual must meet the same goal; in which case, the larger exhibits extra effort to make up for weaker skills
- Implications for results-driven teamwork (i.e., school and workplace)
  - What is your end goal? When 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



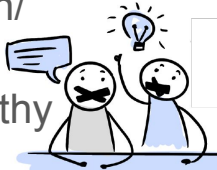
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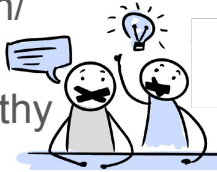
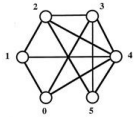
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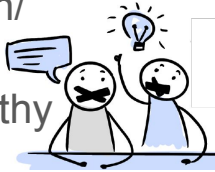
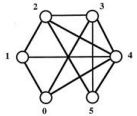
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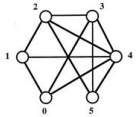
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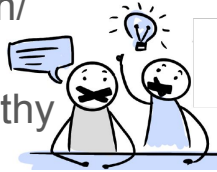


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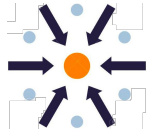
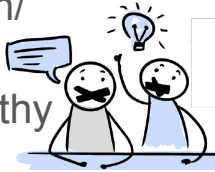
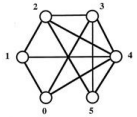
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- **External factors:** project resources, company infrastructure, performance feedback



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  - **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



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- 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