

Case Study: Global/Historical

Japanese Invasion of Asia

- 1894-1945
- Lack of natural resources in Japan, etc.
- Invaded China, Korea, and many other Asian countries
- World War II
- Consequences

- Why did it happen?
- Apply your most general winning strategy?

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Unit C3 Goals

- Discuss Group Exercise C2
 - Explore the mechanism underlying all sorts of social activities (animal or human)
- Prepare to start project paper
 - Organization
 - References
- Understand what to do with Exercise C3

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Take-Home Exercise C2

- Field work: Society and individuals in complex social activities
- Reading: Main points
- Connection: Field work and reading
- “Mechanism underlying all sorts of social activities”
- Connection to family values

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Swarm Intelligence

- Each ant is not very intelligent.
 - Cf. the guy in the Chinese room or neurons
- Their colonies exhibit complexity approaching that of intelligence.
 - Cf. the entire Chinese room or the brain
- The intelligence is in the colonies, possibly including the environment.
 - Cf. the shortest path recorded in the environment (not known by each ant)

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cf. Mass Stupidity

Complex Systems

- Characterized by the **interaction** of simpler components (**agents**).
 - Each agent may have “**bounded rationality**” [Herbert Simon]
- Often, **unpredictable** behaviors **emerge**
 - Possibility of ending up with chaos
- But may also **self-organize** to show certain remarkable phenomena
 - Cannot be explained by any “design”

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Healthy Competition, Revisited

Things to consider

- Type/amount of rewards
- Starting points (initial conditions)
- Sharing: resources, procedure, fate, etc.
- Reputation, prestige, pride, self-esteem
- Emotions (what kind?)

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Project Paper

- Goals?

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Goals

- Performance Goal 1: Identify your main personal and/or social problem related to the content goals and propose a well-thought solution developed in stages, reflecting critical reviews of other students and the instructor.
- How to accomplish this?

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Research Question

- In professional research,
 - The question has not been asked.
 - Answers to the question have not been accepted.
 - The answer to the question is known incorrectly.
- Literature search to verify this

This course: Literature search can be research by itself.

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Performance Goal 4a

- Why do we need to be careful about on-line info?

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Literature Search Methods

- Library search
- Database search
- Internet/web search
 - Convince the instructor about the credibility and validity (in person or by e-mail)

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Exercise C3

Notes

- Cite references in your paper
- Get **pre-approval** of the instructor to refer to on-line info
- Submit in **two ways**
 - **Electronically, attached to e-mail**
 - A hard copy as usual

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