# Week 6 class 2 - Chaos and Fractals (lab)

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## Readings discussion

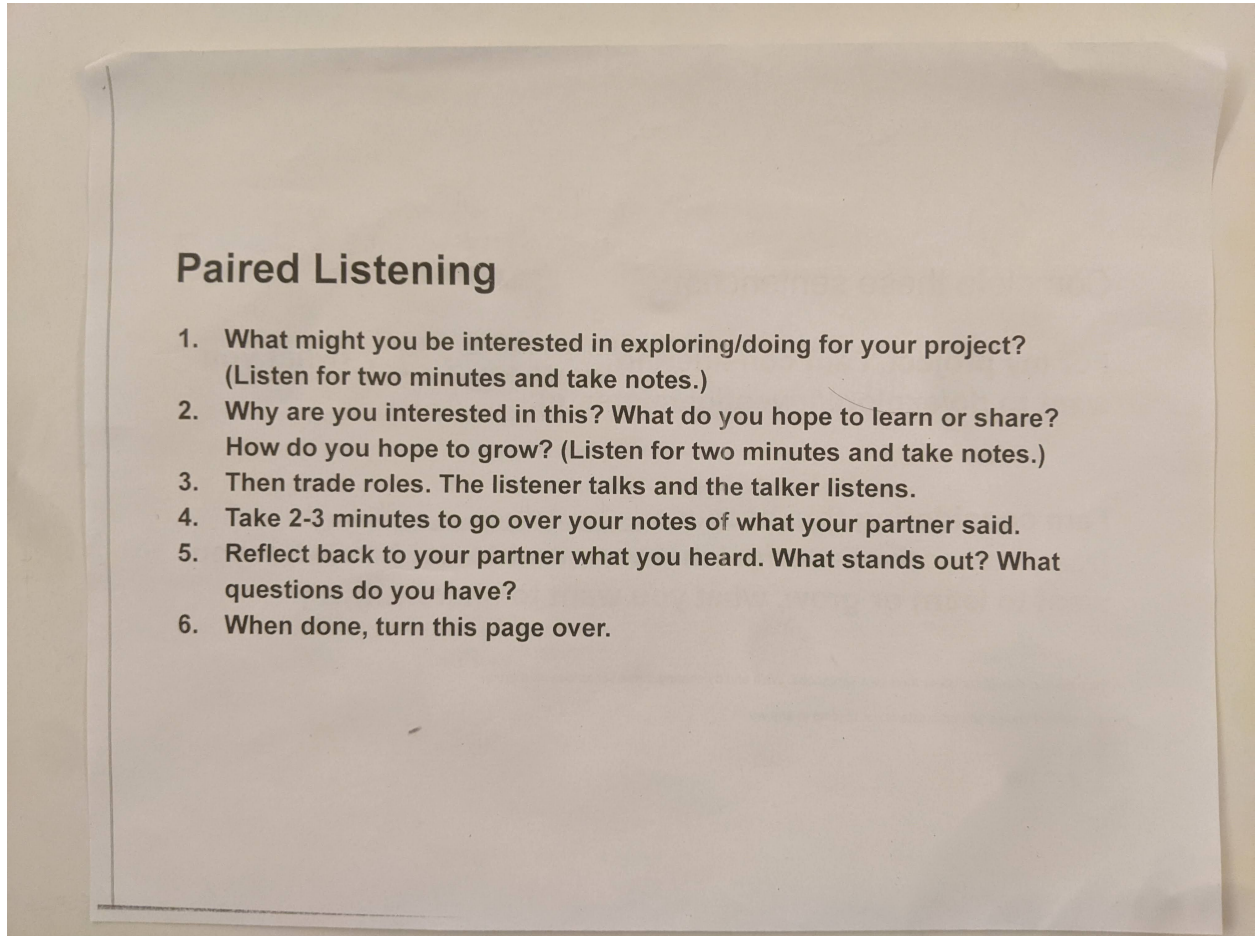**Are there parts of the reading that really struck with you?**

- The fact that frequencies of wars follows a power law is amazing.
- Turbulence is self-similar at different scales?

**Are there parts of the reading that you would really like to hear others' thoughts on?**

- How do people feel about the notion of fractalness of our social environments that is brought up in the emergent Strat reading, and is anybody concerned that the notion might be applied in an under critical way in some contexts?
- In social modelling, does introducing a model present a risk of invalidating the model by the social acknowledgement of the model affecting its outcomes?
- What is fundamentally different about processes that involve collective ideation from more top-down hierarchical processes?
- The emergent strategy readings emphasised collaborative organisation over hierarchical organisation, but I feel that it's promotion of collaborative organisation everywhere is a little rushed and uncritical. See: Jen Schradie - hierarchy provides conservative movements in the USA with a huge organisational advantage.
- ˆˆ Notion of a leaderful group in which everyone is participating in a leadership role in different (and often changing) ways as an inbetween state between hierarchical organisation and collaborative unhierarchical organisation. Organisation needn't follow an implied binary between hierarchy and collaboration.
- Hierarchy is often fractal in that it is self similar.

Idea (mentionned by Gray): Discoveries are unpredictable because if they were predictable, someone would have already discovered them. The unpredictability of discoveries makes history unpredictable.

**Final project ideas discussion**

## Paired Listening

1. What might you be interested in exploring/doing for your project? (Listen for two minutes and take notes.)
2. Why are you interested in this? What do you hope to learn or share? How do you hope to grow? (Listen for two minutes and take notes.)
3. Then trade roles. The listener talks and the talker listens.
4. Take 2-3 minutes to go over your notes of what your partner said.
5. Reflect back to your partner what you heard. What stands out? What questions do you have?
6. When done, turn this page over.

**My project ideas:**

Complete these sentences:

_making art using recursive stochastic & deterministic processes_

For my project, I am considering _simulating agent belief revision_. [what you
want to do/explore/investigate/create].

I am considering this because _I find them exciting_
[reasons/motivations for what you want to do: how/what you
want to learn or grow, what you want to share……… ]

Each person should complete their own sentences. We'll end by sharing these sentences as a group.

(The project choice you articulate is not binding in any way!)

**My discussion partner's project ideas:**

- Knitting for a final project
- Geometric fractals stuff - something visual art-y
- Understanding social movements through fractals: building democracy through peace and justice - how can democracy build these qualities

    - Feels very relevant to her life
    - Movement to protect old growth forests
    - Government and democracy at different scales: governmental purview at different scales