

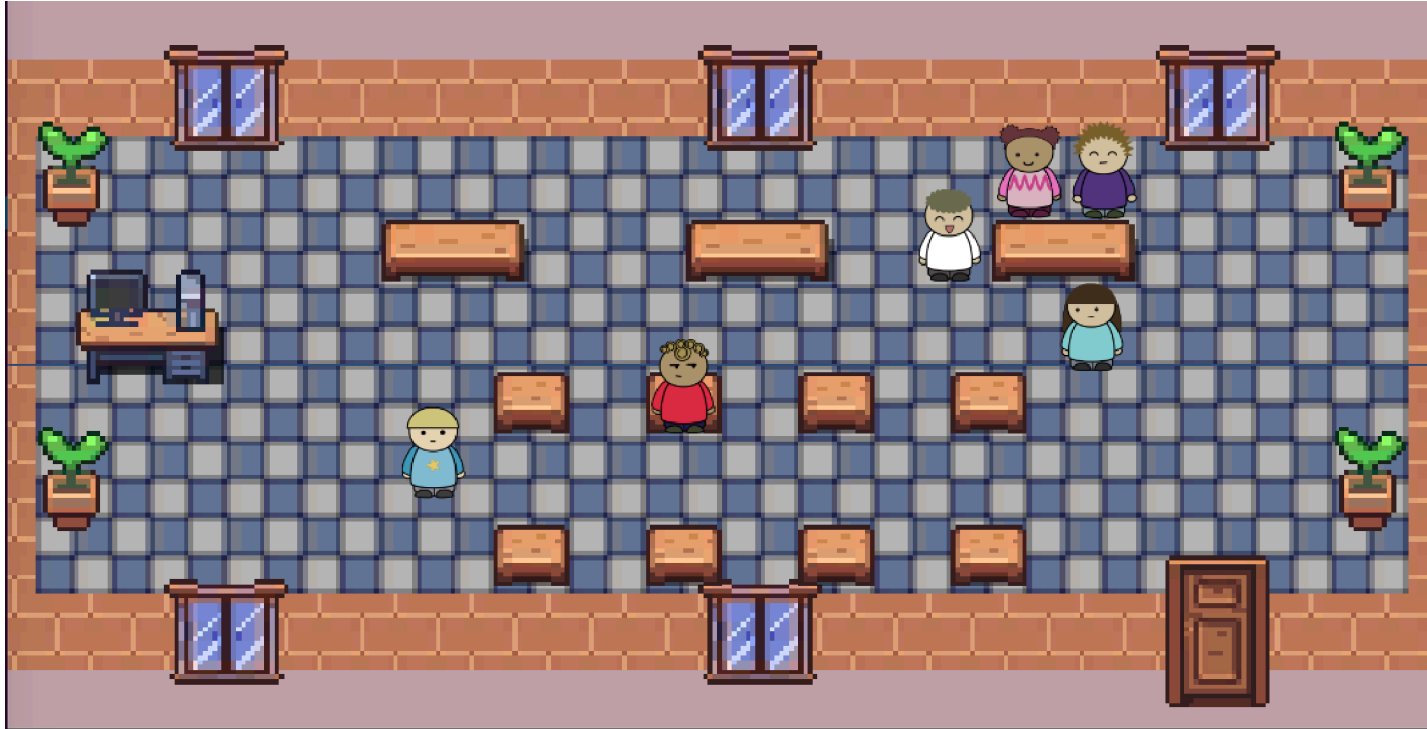
Breakfastclub

A Multi-agent based classroom simulator

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How different personalities effect
classroom attention and happiness?

Breakfastclub



- Unity3D based multi-agent simulation
- Agent behavior is based on OCEAN (Big Five) Personality Trait model
- Model attention, happiness and motivation
- Different personality profiles are compared to each other

The Agents

Behavior

- Chat
- Take a break
- Study alone
- Study in groups
- Quarrel/Argue

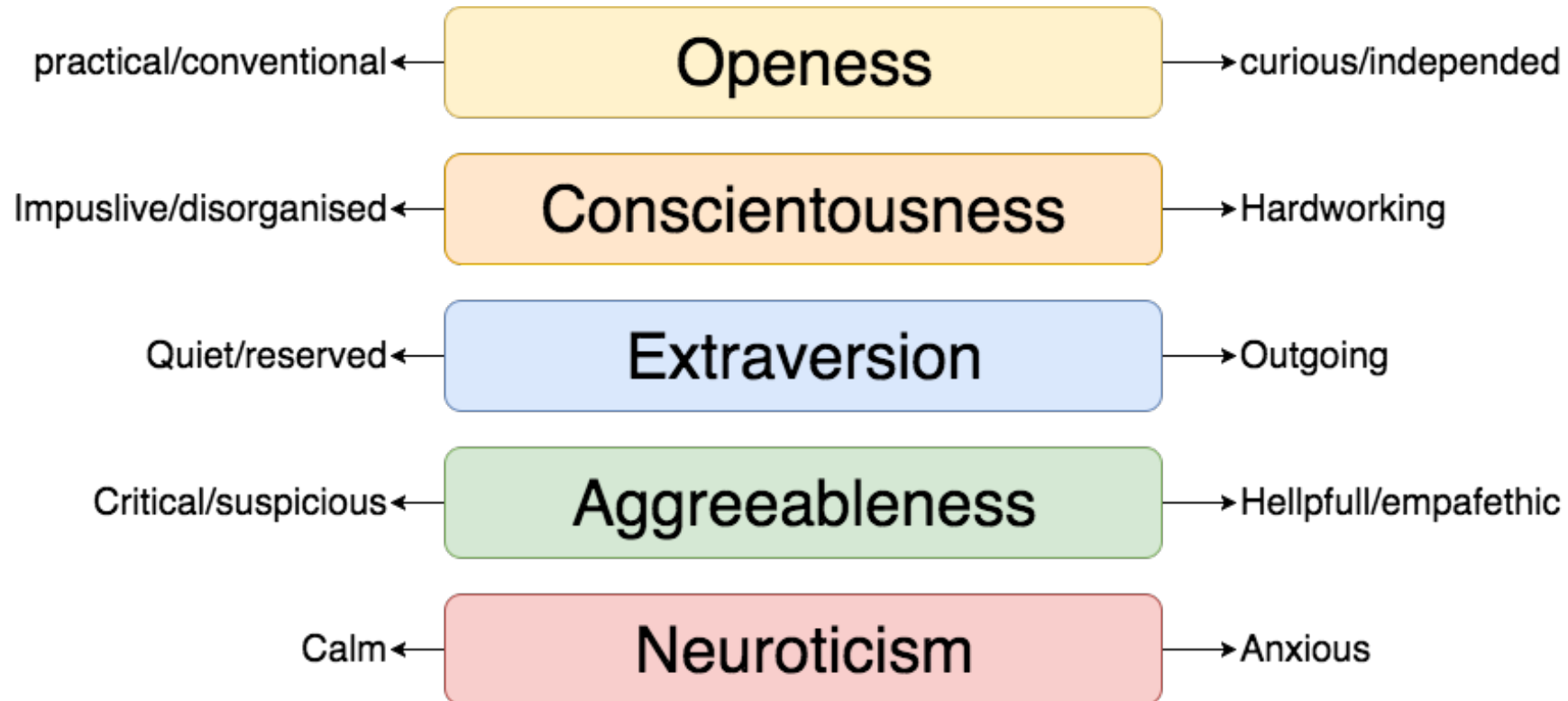
Internal States

- Motivation
- Happiness
- Attention

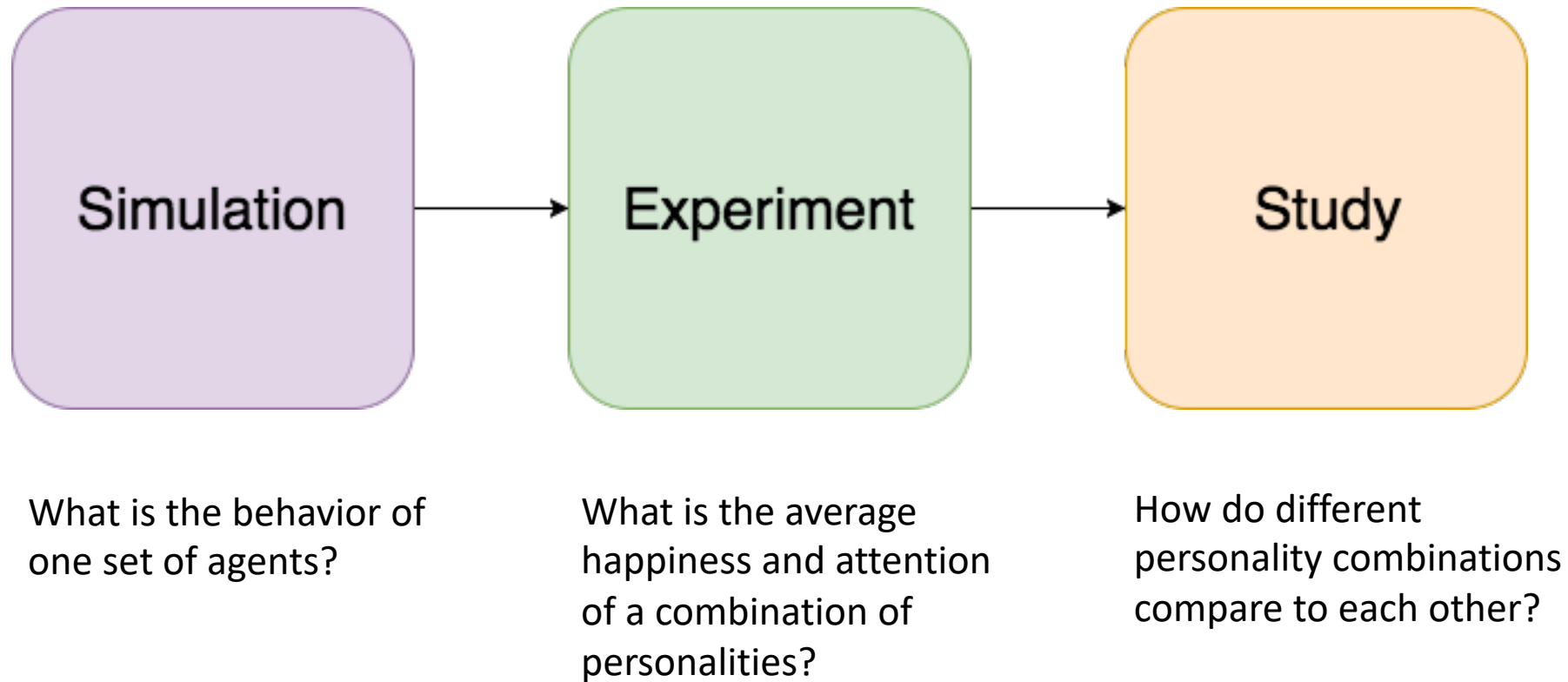
Personality

- Openness
- Conscientiousness
- Extraversion
- Agreeableness
- Neuroticism

OCEAN – Personality Trait Model



Three phase Analysis

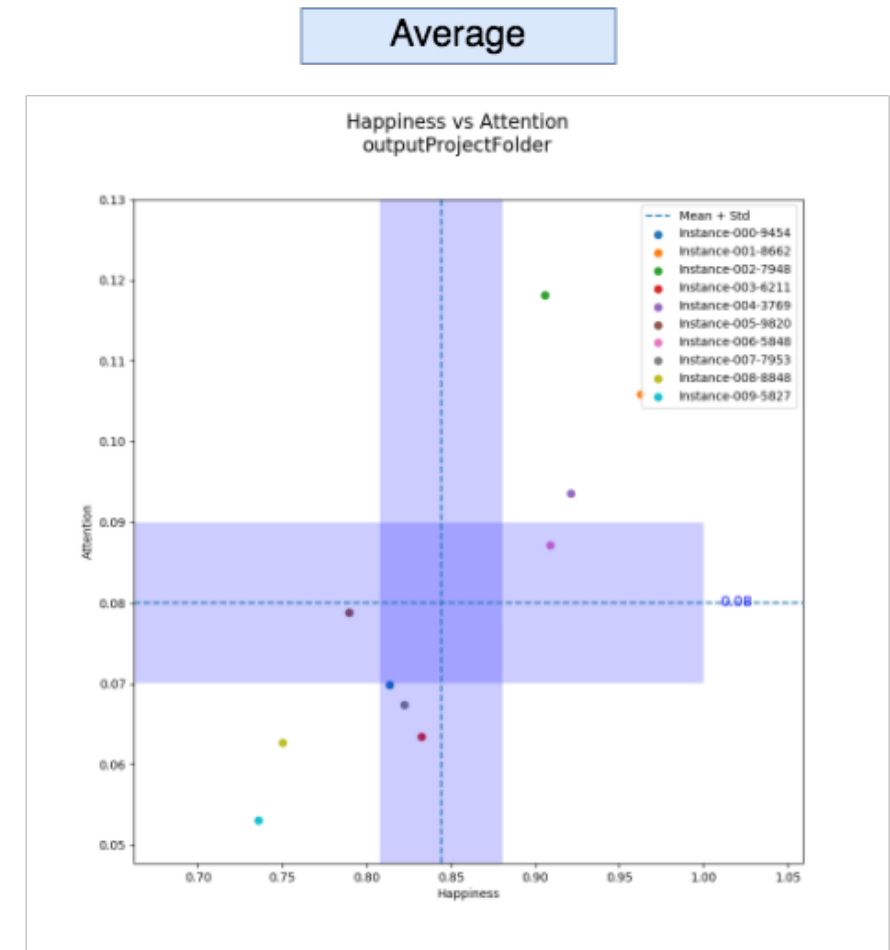
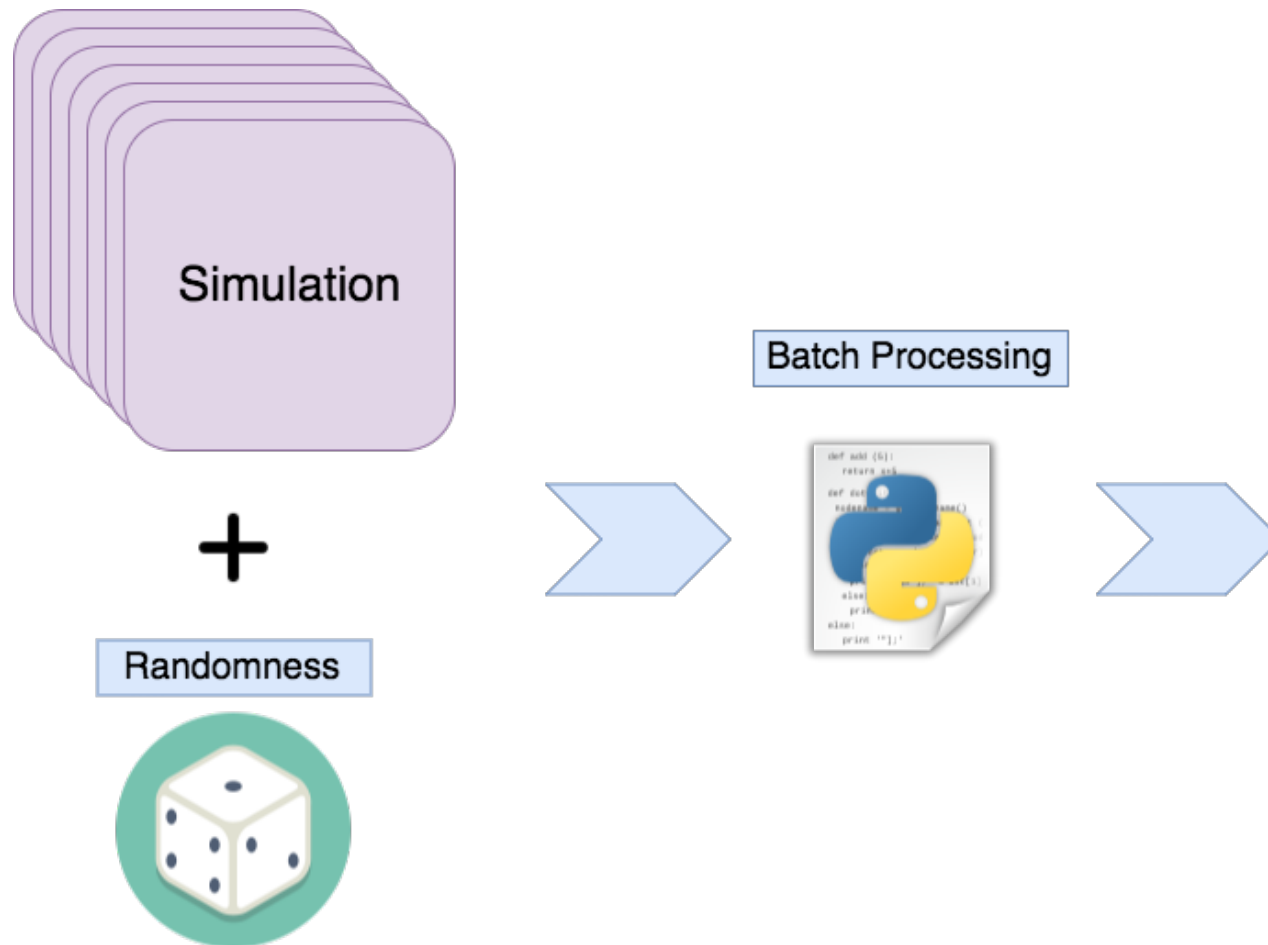


What is the behavior of one set of agents?



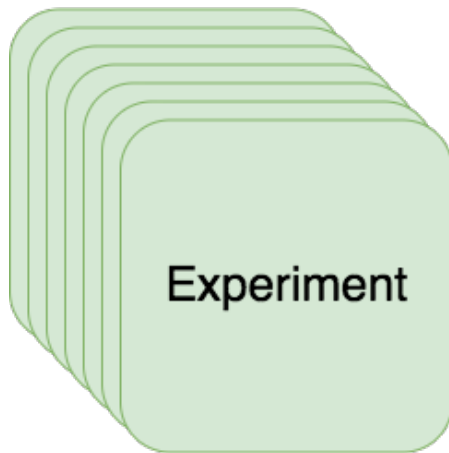
Experiment

What is the average happiness and attention of a combination of personalities?



Study

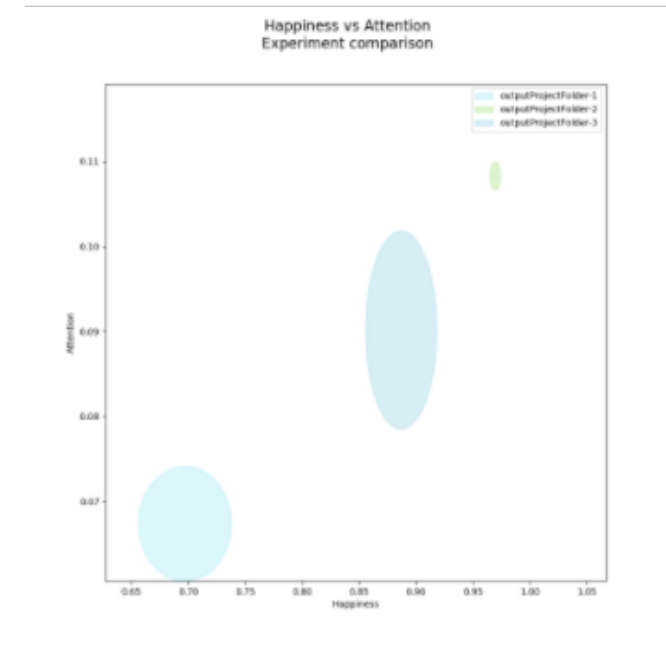
How do different personality combinations compare to each other?



Batch Processing



Group comparison



Results

Outlook

Thank you

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