

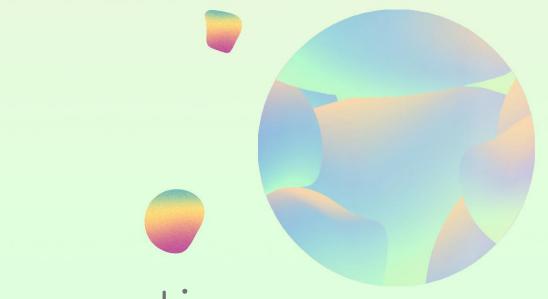
#### Prof. Daniel Kiper



Dr. Benjamin Stucky

reading material 3 credits 3 quizzes
best 2 count

### discussion oriented



I know that I know nothing

- attributed to Socrates

accepting other views

How would you define





#### Consciousness

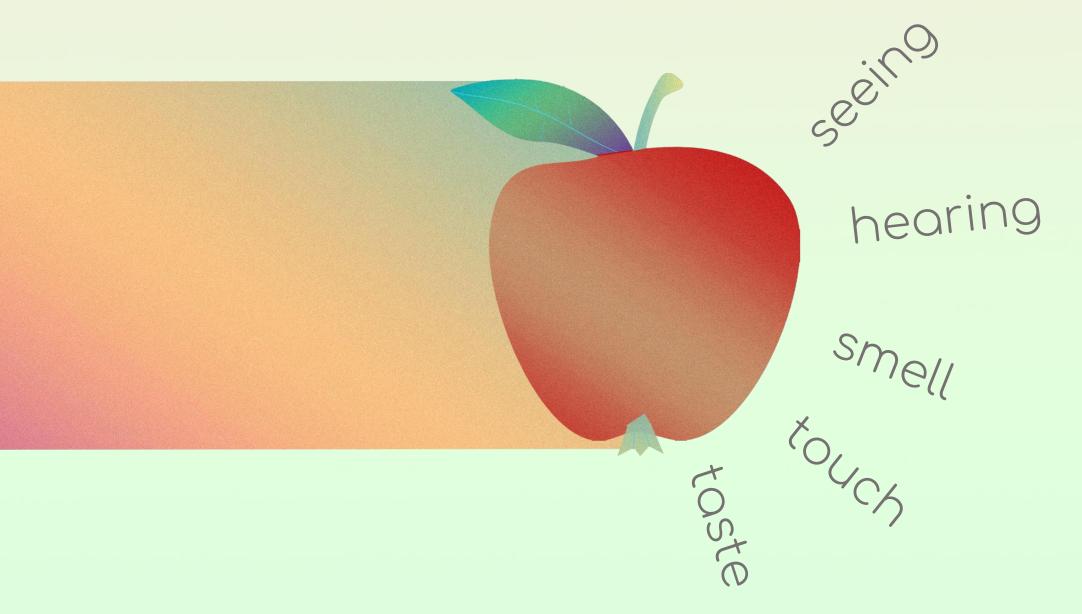
Qualia

(phenomenal experience)

there is something it is like to be

- Thomas Nagel

#### Qualia Sensory



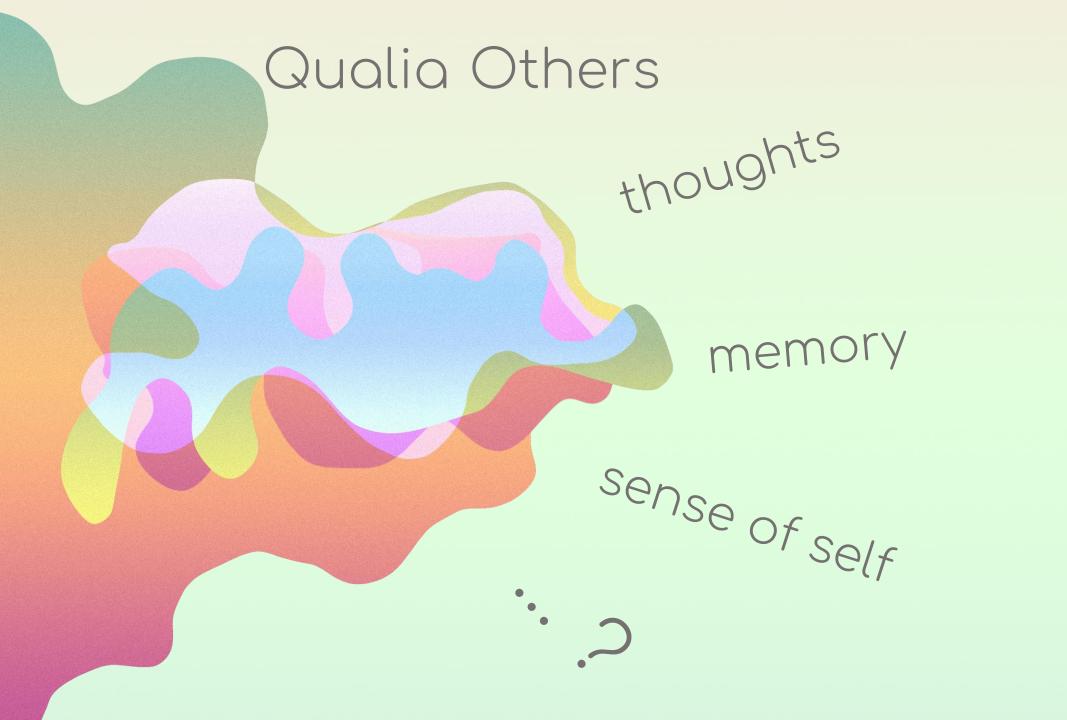
#### Qualia Moods

disgust 101 anger surprise sadness teol anticipation

Qualia Sensations movement tickling vibration

blanace

itchin9



Where to draw the line

?

What is unconsciousness

# We might not be able to communicate a conscious state to ourselves and others without metaconsciousness

Kastrup B. There Is an 'Unconscious,' but It May Well Be Conscious. Europe's Journal of Psychology, 2017

e.g. a state without memory can't be remembered afterwards

### Inference about subjective character of other organisms may be impossible



Nagel T. What is it like to be a bat? The Philosophical Review, 1974



Elhakeem N. et al. Aboveground mechanical stimuli affect belowground plant-plant communication, 2018

Trewavas A. What is plant behaviour? Plant Cell and Environment, 2009

#### physarum polycephalum

Nakagaki T. et al. Obtaining multiple separate food sources: Behavioural intelligence in the Physarum plasmodium. Proceedings of the Royal Society B. 2004

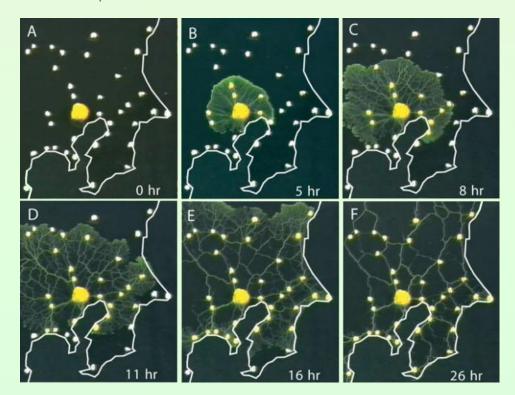
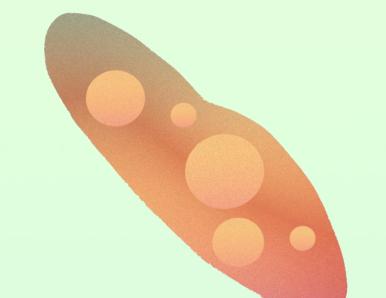


Image: Science/AAAS

### Paramecium learning

Alipour A. et al. Possible Molecular Mechanisms for Paramecium Learning. Journal of Advanced Medical Sciences and Applied Technologies, 2017





#### Artificial Intelligence

Reggia J. The rise of machine consciousness: studying consciousness with computational models. Neural Networks ,2013

Searle, John. R. (1980) Minds, brains, and programs. Behavioral and Brain Sciences

#### Hard Problem of Consciousness

Why should physical processing give rise to a rich inner life at all?

- David Chalmers

### Easy Problems of Consciousness

## explanation of cognitive abilities and functions

- David Chalmers

#### philosophical zombie

-Kripke 1972, Chalmers 1996

From a world made of matter and governed by laws, a copy of you is conceivable without having any qualia.

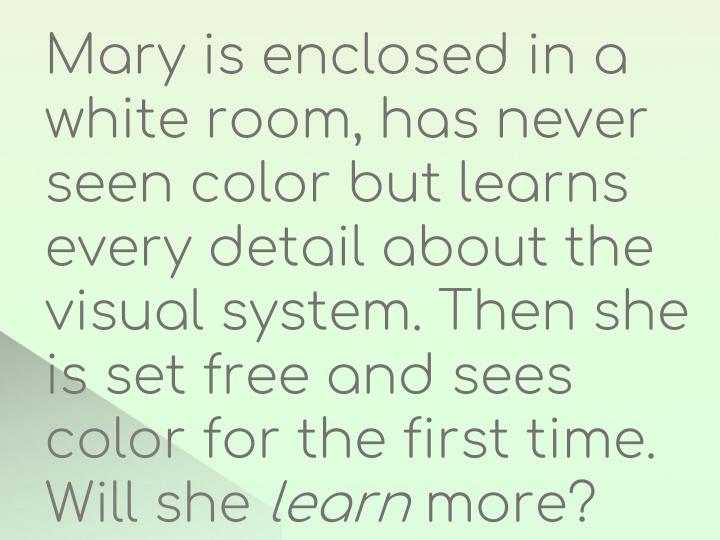


### philosophical zombie

Similarly, a copy of you is conceivable with inverted qualia.



#### Knowledge Argument -Jackson 1982



#### Next Time:

We will discuss various views of the Hard Problem of Consciousness.