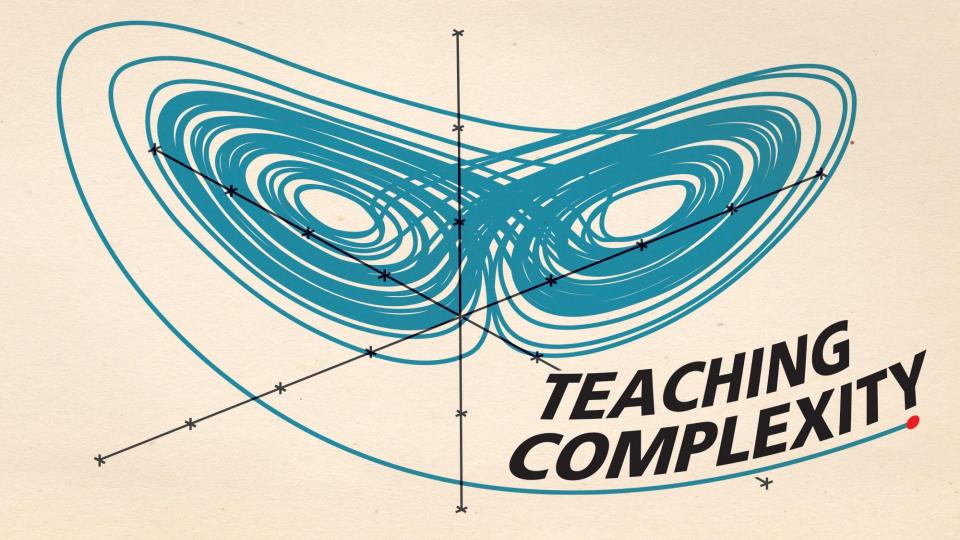
#### Teaching Complexity: Complexity and Creativity 19.02.19 / 1500

#### **Dave Cormier**

Manager, Schulich School of Medicine, Windsor Campus Rhizomatic Learner Internet person @davecormier

#### **Tobias Revell**

Programme Director, Graphic Design Communication, London College of Communication, UAL Director, Supra Systems Studio Director, Strange Telemetry Curator, Haunted Machines Pretty passable digital artist @tobias\_revell



## Complexity and Creativity #teachcomUAL

David White, Head of Digital Learning - @daveowhite https://tinyurl.com/y8ddkg7k

### **Ual** university of the arts london

**Teaching and Learning Exchange** 



#### Blackboard Collaborate Ultra - basics:

Setup your audio and video	Collaborate basics
Click the <b>purple icon</b> to expand control panel.	Click the purple icon to expand control panel.
Click the settings cog icon.	Attendees List
If required, expand the Audio and Video Settings section and click the Set up your camera and microphone link.	Share Content (if granted by meeting organiser)
Once configured use these buttons to turn on/off your microphone and camera:	To leave the session

Just close the browser tab/window.

#### Questions and reflections:

## http://teachcom.myblog.arts.ac.uk comments

## **#teachcomUAL - Twitter**

## Premise

Simple and Complicated challenges are solved. Complex problems can only be confronted creatively. Designing for complexity (a goal for learning)

# SIMPLE



## Simple Problems

- Easily measured
   Does not require subject
  - matter expertise
- 3. Fix it by DECIDING.

## COMPLICATED



```
void loop() { //do it over and over again
```

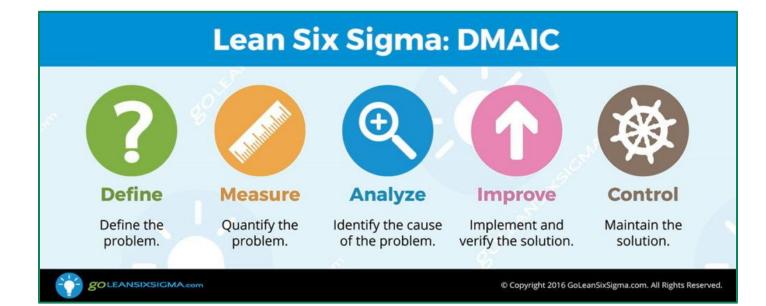
```
buttonFeelings = digitalRead(buttonBlue); // did you press the button yet? d
```

```
if (buttonFeelings == HIGH) { //if button is pressed
```

```
digitalWrite(ledPin, HIGH); // light turns on
{
for (coffeeChickpeaPosition = 0; coffeeChickpeaPosition <= 180; coffeeChickp
coffeeChickpea.write(coffeeChickpeaPosition); // change the p
delay(15); // wait a little bit
}</pre>
```

## Complicated Problems

- 1. More difficult to measure
- 2. Sometimes more than one solution is possible
- 3. Requires subject matter expertise
- 4. Lean Six Sigma



Complicated educational challenges Please write on this slide.

## COMPLEX



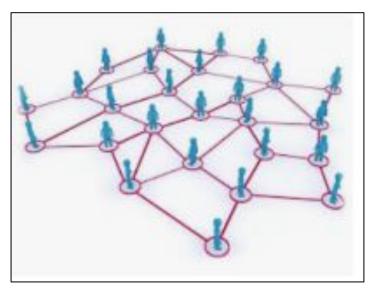
## **Complex Problems**

- 1. Not directly measurable
- 2. Does not have a solution
- 3. Can only work on part of the problem
- 4. Fix it with people

complex educational challenges Please write on this slide.

# Complicated or complex?

Simple/Complicated Clear learning objectives Certainty Student as follower



#### Complex Learning ecosystem Uncertainty Student as collaborator



## To what purpose?

## If you could count learning like you can count money



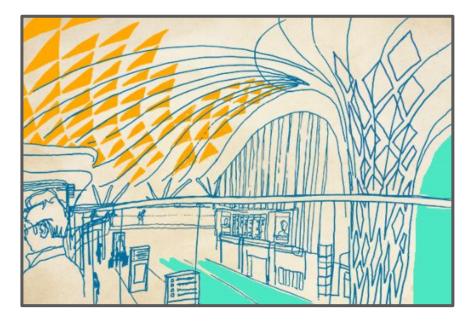






Creative approaches to complex educational things Please write on this slide.

#### Ethics - Ideology:



## Community

### **Openness - reuse - recordings**

**Creative Commons, Attribution** 



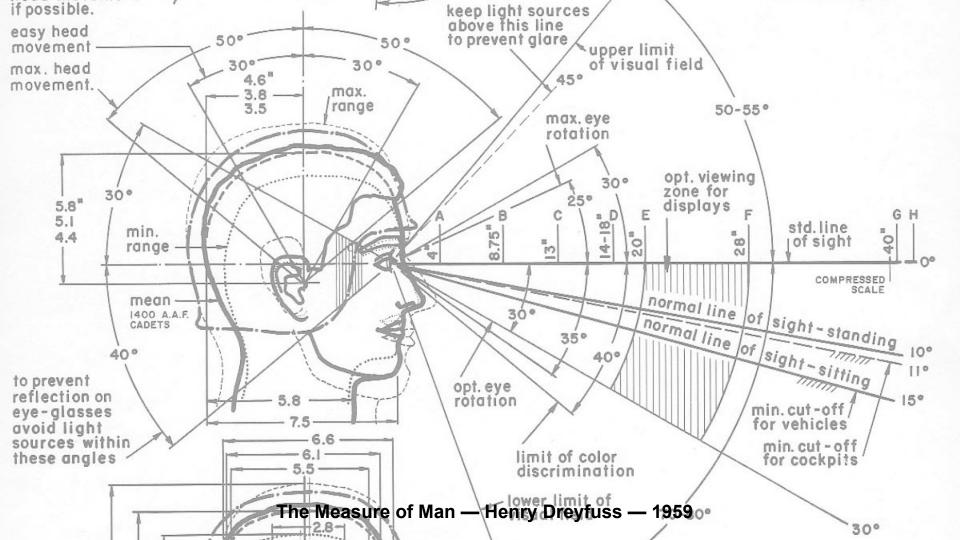
J. WANDELAAR de .....

Diervilla, Hortus Cliffortianus – Georgius Clifford (Georg Dionysius Ehret) – 1737



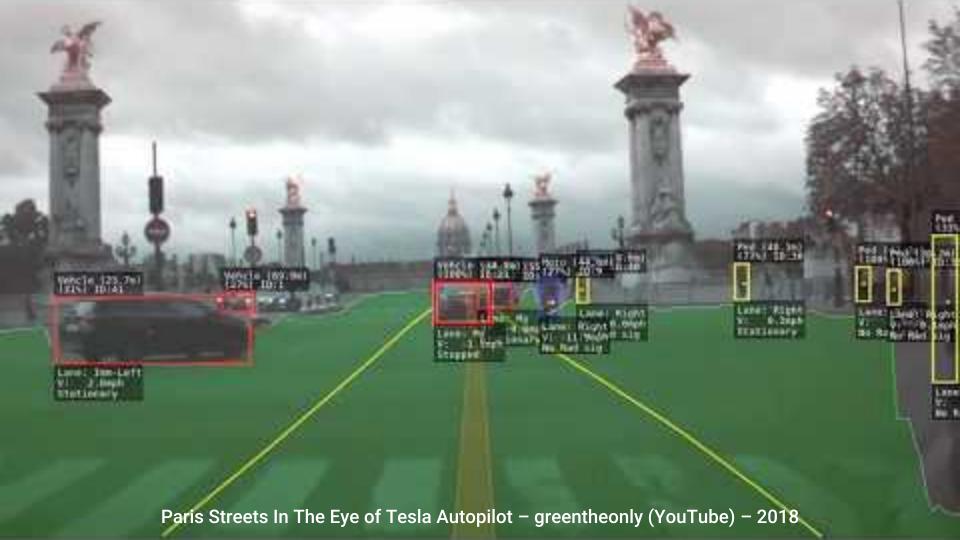
The utopian, immanent, and continually frustrated goal of the modern state is to reduce the chaotic, disorderly, constantly changing social reality beneath it to something more closely resembling the administrative grid of its observations.

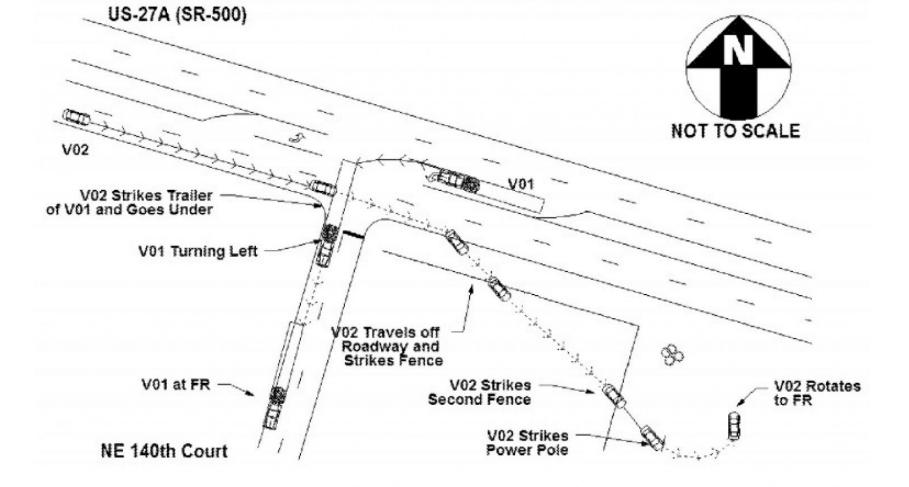
Seeing Like A State – James C. Scott – 1998



There is no way of framing ethical, political, and philosophical questions that would not also have to be a matter of techne, technique, or technesis, and so would not have to be imagined mechanically.







National Highway Traffic Safety Administration (US) - 2016

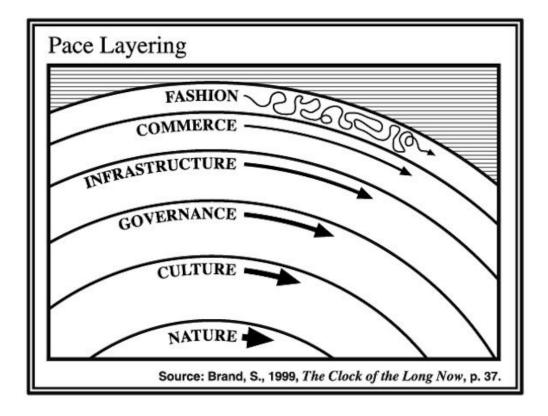


We are stuck with the problem of living despite economic and ecological ruination. Neither tales of progress nor of ruin tell us how to think about collaborative survival.

. . .

Imagining the human since the rise of capitalism entangles us with ideas of progress and with the <u>spread of techniques of alienation</u> <u>that turn both humans and other beings into resources</u>. Such techniques have segregated humans and policed identities, obscuring collaborative survival. The concept of the Anthropocene both evokes this bundle of aspirations, which one might call the modern human conceit, and raises the hope that we might muddle beyond it. Can we live inside this regime of the human and still exceed it?

The Mushroom At The End of the World – Anna Lo – 2017



Pace Layering – Stuart Brand – 1999

#### Ripple Counter – James Auger – 2015

dien. dien. dien. Decreteer oorfee et iss n des technologies a

domestiques plus éphér facteurs. vadgets, veauté

> rectoril res; « Toute technologie suffisamment ancée se confond avec la magie», sest dans cet élément mogique que le

Apectacie prend place, mais cet emplacement a lo stant méme où le magicien révélé son tour consequence que l'illición meurt tour consequence que l'illición meurt de la molie que lo sque la technologie n'est pas très pas très sublim la techno sublim to ange à prosonger la durée ephémion tange à prosonger la durée ephémion parge à prosonger la durée enterno sublim parge à prosonger la durée prosonger de la mort du gadget.

» (Addison),

e objectisation

dans le cycle de Commissariat : Alex

par Mathieu Bass

Auger-Loizeau tient à remercier Boyd Costen, Trev harvey, Andrew Weatherhead, Nick Wulamon.

Alexandra Midal-et Mathieu Bassée remercient le bureau sydp. Mathias Zieba et les énuliants en Mäster Espaces et Comminication

Jam's Auger et Jimmy Loizeau remercient tor particulièrement Jean-Pierre Greff, directeur de la Head-Genève. **#2019 Problems:** How to urgently help learners contextualise their practice and research in systems of ten-thousand year, planetary scales when they're surrounded by speed and individualism?

### KEEP THE CONVERSATION GOING! Questions and reflections:

HTTP://TEACHCOM.MYBLOG.ARTS.AC.UK COMMENTS **#TEACHCOMUAL - TWITTER** Next session February 26th 3pm GMT with Sheldon Chow & Matt Lingard: **Digital Fieldwork 2** https://teachcom.myblog.arts.ac.uk/digital-fieldwork-2