# Generative VR: One Scene

#### one scene

non-human narrative non-human goal non-human interaction

to indulge in

# Concepts

To create a non-human subjectivity through the assemblage of semantics [human] and syntactic [machine] components.

Human curates material and interprets meaning.

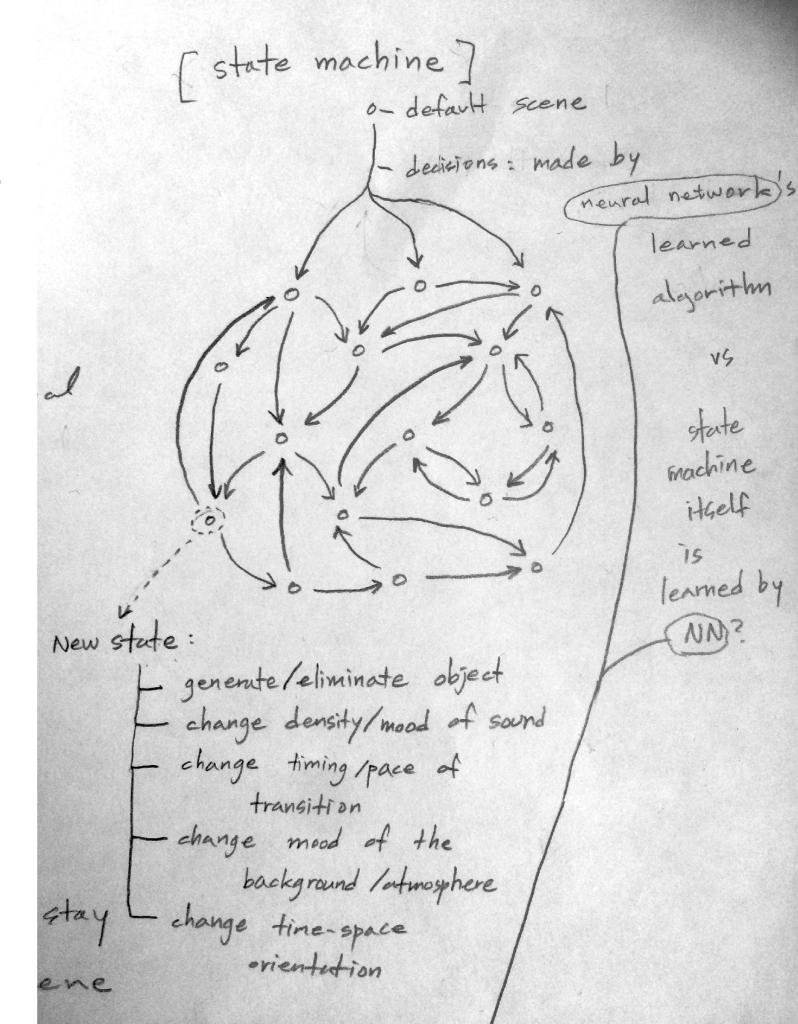
Machine generates and learns to manipulate human.

eigenvectors for creating n number of audiovisual environment = n-th dimensional "scene" "real" space head direction (3d coordinates) New ! - head movement (acceleration) - questionnaire (for training only)

Anu !

Neural network system as a submissive-responsive controller of a scene.

- A scene:
   default state
   → a new state
- "Branching" based on user gaze, head movement
- Somewhat similar to recommendation systems



## Visual References

#### Ian Cheng's Emissary Forks For You



https://vimeo.com/75855387

#### Brenna Murphy



https://vimeo.com/197999313

# Implementation

#### Inputs

- head direction
- head movement (acceleration)
- -verbal cues, questionnaire (only for training)
- time spent in the scene



#### Output: a new state

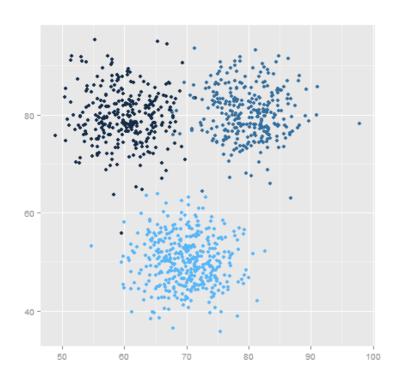
- generate/eliminate object
- change density/mood of sound
- change timing/pace of transition
- change mood of the background
- change time-space orientation

# Dataset training dataset - we need to generate one ...?

#### Modules

# 1. Human Behavior Learning Module

- Input: viewer's action/behavior
- Output: new state



#### 2. Generative module

- Visual synthesis
- Sound synthesis

Either using ML technique or rule-based (procedural) creation

#### Platform Unity + C#

Model/Techniques
Unsupervised learning
Reinforcement learning (Deep Q learning)?

### **End Goal**

Complete Self-Alienation!