atenemen > Treathing ALtor Cochers transforms col 1 rought Experiment You have so fest computer 800 Storage on fast what do you do - Stream audio, videc, into momery V/ persistant sterage - Set up graphies to display a region of menory that Changes predictably overy Evame - Set up audio stream from a productable sequence of memory locations - Repeat DJB many times w/ability to give feedback when something introvesting is observed Modularily actors Selforganing maximaly decoupled

Synthesis\_decition

Full access to Past 

Core Core Video Audo Store Stere ALGORITHUS NOWNAL DATA Store Audio Video ndivid val 0 los eruel Requirement: 00 Individual observers looking for the right or interesting algorithms.

	Another Problem
	one of the individual observers
	Could Rind the best match
	for the past but what
	for the past but what about the future?
	Don't we want something interactive?
-	
-	

Actor Z Actor 3 7 Reality Audio Porspective Computer 1700 L'ackeron Space

Lecus or a Roal M mor voled Algorithms polar ANDO 1020

Acter Reality is the coumen meeting Point Add a Compster 17ed actors w/ a memory in each and according each and or compre second in each and or variety of a sporthing 5 Add Leedback of value of actors

nivser 00 Combines A 100 20 Reality Acted Netcr misson Reality

Interaction w/ Shared Reality 1001.15 Reproduction Actor Computer Shared Reality The level of manipulation of shorted reality is important because the degree of success in that interaction determines the ability to reproduce the actor It could be argued that recly us we know it 15 the result of interaction of actors w/ various means of sell propique ion en a Shared reality - The competer as it exists Loday ear only manipulate or were appropriately, influence the world through another actor. This limits the ability of useful actors or actions to propigate or gantically

CASONICAS REFORM Ropigovetica Wast this is the pattern actes? mortant: 430 000 001 C 10 011 100 3645 compotability Avolo/ Videc Vannes OO Compute => Functions 100

Computer cter AV Frames AV FRAMES Acto meniter Comica WERLS Actor AVERUMOS Wes lo Hands morty AVX (ames Action

There is and must be a search Curetion associated with any agent acting on the reality homens act on. As such there is a fitness function applied to a result Crame generated Iron a trest ol a hypethesis As such the general economys of search apply in forms of the number of variables determining the SIZE of the Search space and search time and the profile Of the filmess space being somethin I har can be leveraged As such there is a strong tendency to 1 coultred actors and larger numbers of those actors A key lactor here is not the limit of the compute Puner of the actor bring ivalvated but of the other actors acting on the world and driving Jun Citness evaluation.

actors ut limited scape? Parallel - Fitnuss Function is expensive to execute of we prefer to tost unitiple Heters in singly evaluation al Fitness Punction - In this case the litness functions
Includes writing for the actions
all other actors to provide Credock Junited secol - the search space expledes u/ Hofvarjables. den fundamental actors and build w/ these Spenos like ne rald write formula to model this