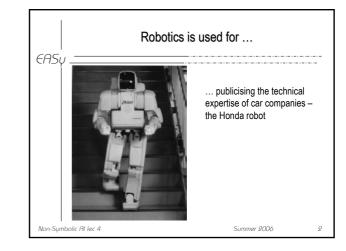
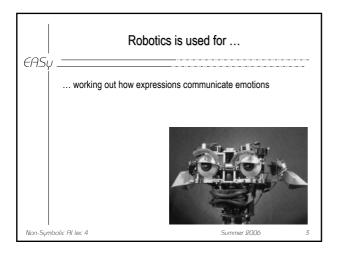
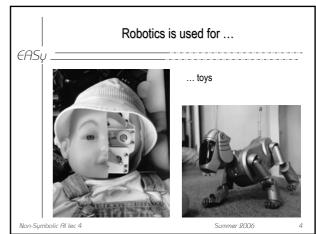
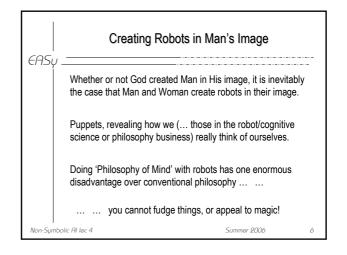
EAS	Non-Symbolic A	I lecture 4	
	A major difference between Symbolic approaches is in modelling, or emulat artificially intelligent machines such as	ing, Cognition or control -	- in
	Symbolic, or Classical, AI tended to the being focussed within a central, reasonable to the being focussed within a central, reasonable to the being focus of the bei		
	Given a task (for a human or a robot) 'catch the ball', Symbolic AI assumes into a set of propositions, using proba	that the task can be turne	
	Then this is now a 'problem to be solv computer ( or the computer as a bra	0	
Non-Sy	Non-Symbolic Al lec 4 Summer 2006 1		

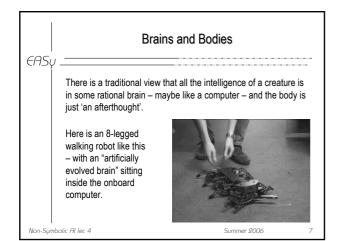


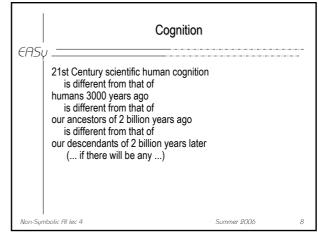




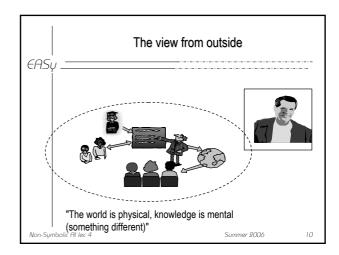
	Robotics is used	for	
	and for science as a way of understanding how anim trying to build artificial ones.	als and humans work b	y
	Artificial Life.		
Non-Symb	polic Al lec 4	Summer 2006	5



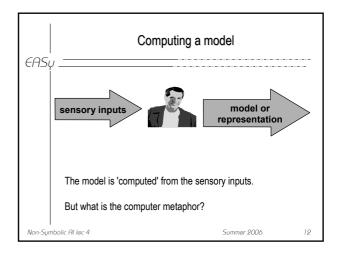


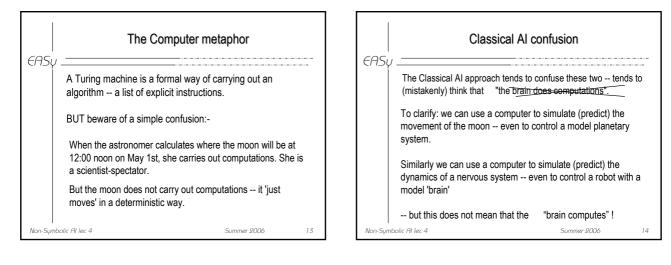


6950	Descartes	
	Much of classical AI can be traced back to Descartes (early 17thC)	
	Dualism the separation of the mental and the physical. Cartesian objectivity:	
	"there just is a way the world is, independent of any observer. The scientist is a spectator from outside, a God's eye view"	
Non-Symb	polic Al lec 4 Summer 2006 9	

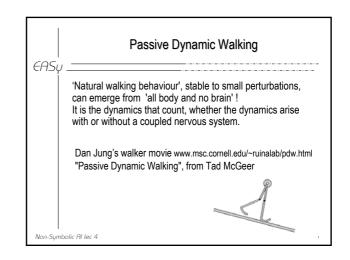


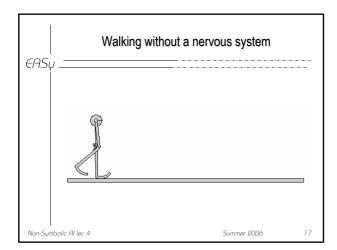
		Classical Al	
EHSŲ _		pots, this gives Classical Al approa entist-spectator, seeking informatic	
	"SMPA" so-ca S sense M model P plan A action	alled by Brooks (1999)	
Non-Symboli	: Al lec 4	Summer 2006	11

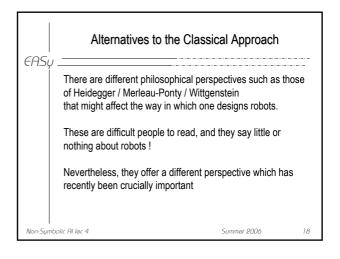


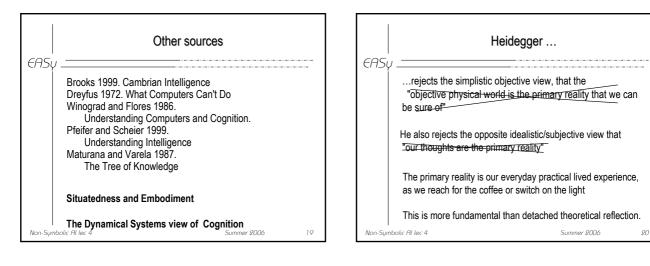


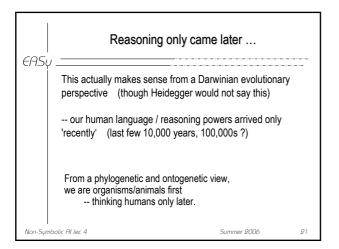
	'Reasoning all the way down'		
ΕΗSŲ	The Classical AI approach, obse computing, assumed that <b>even</b> s walking across the room, mainta reasoning and computation	comething as simple as ining one's balance, requ	
	"Sense Model Plan Ac Brain controlling musc		
	But look at this		
Non-Symb	Non-Symbolic Al lec 4 Summer 2006 15		15

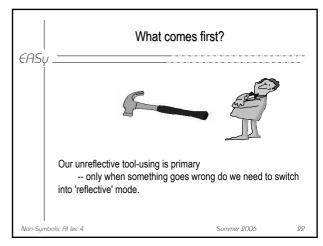












6950	Any lessons for robotics?
	This is true (Wittgenstein suggests) even for language skills:
	"In general we don't <i>use</i> language according to strict rules it hasn't been taught us by means of strict rules either"
	What lessons for robots from these alternative views? At first sight, they are negative and unhelpful !
	For everyday robot actions this implies we should do without planning, without the computational model, without internal representations but what should we do instead ?
Non-Symb	- olic Al lec 4 Summer 2006 23

