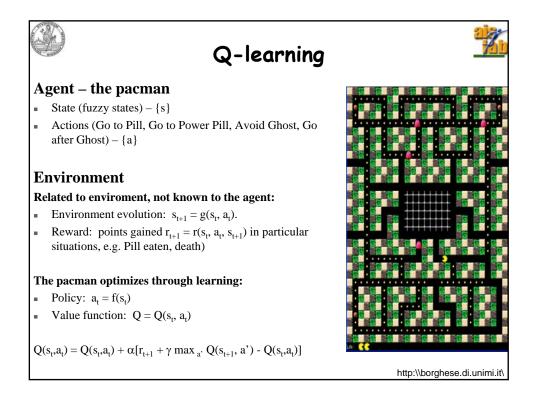
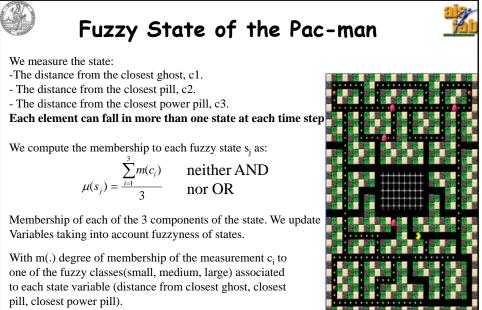


	men end	Fuzzy aggregated state	Closest ghost	Closest pill	Closest power pill
The Pac-man and fuzzy Q-learning		1	Low	Low	Low
Fuzzy description of the state avoid combinatorial explosion the states.	te is mandatory to	2	Low	Low	Medium
		3	Low	Low	High
		4	Low	Medium	Low
		5	Low	Medium	Medium
		6	Low	Medium	High
		7	Low	High	Low
		8	Low	High	Medium
		9	Low	High	High
The state of the game is descri	ribed by three	10	Medium	Low	Low
e		11	Medium	Low	Medium
(fuzzy) variables:		12	Medium	Low	High
 minimum distance from the closest pill. minium distance from the closest power pill. minimum distance from a ghost. 		13	Medium	Medium	Low
		14	Medium	Medium	Medium
		15	Medium	Medium	High
	nost.	16	Medium	High	Low
	variable -> 27 fuzzy	17	Medium	High	Medium
Three fuzzy classes for each		18	Medium	High	High
states.		19	High	Low	Low
1000		20	High	Low	Medium
C		21	High	Low	High
		22	High	Medium	Low
		23	High	Medium	Medium
		24	High	Medium	High
		25	High	High	Low
		26	High	High	Medium
A.A. 2014-2015	9/18	27	High	High	High





More than one state can be active at each time step and the degrees of activity, $\mu(s_i)$ add to one.

