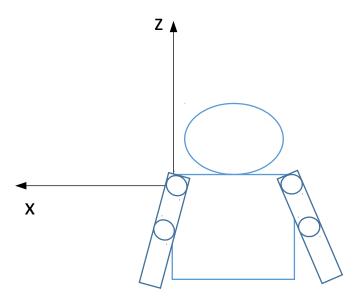
Nao Q-Learning Project

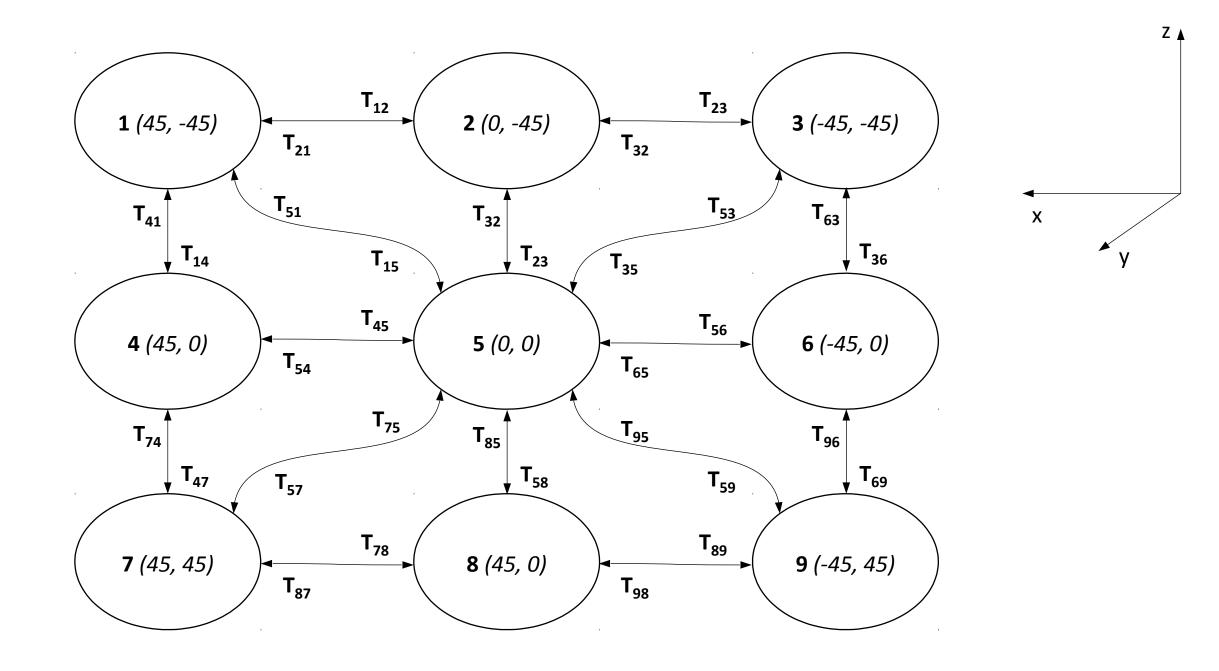
States and Actions



- The space is split into 9 states determined by the robot's arm's elevation and azimuth.

Five actions:

	Up	
Left	IDLE	Right
	Down	



Policies:

- For picking actions, several policies are to be implemented. The first Matlab script picks a possible action randomly, but the choice can be based on values of the Q matrix.

Rewards:

- Rewards are to be indicated at each step by the human partner, through signs which are to be identified by the robot using for instance image recognition or through the voice. If the robot brings his arm closer to the «goal state », the user rewards the robot, and if it brings it farther, he penalizes it.