

Algorithm

- Graphplan
- Python
- AIMA library

Mandatory positions and transitions

- Mandatory positions = ["StandInit", "Sit", "WipeForehead", "Hello", "UnionArms", "Stand", "StandZero", "Crouch"]
- Sample of Transitions: StandInit, SprinklerLeft, Crouch, DiagonalRight, MoveForward...Crouch

• All intermediate independent plans are unified into one choreography

Modeling

- Pre-conditions for a movement between position P1 and P2:
 - NAO is in position P1
 - P1 is compatible with P2
- Postcondition:
 - NAO not in P1
 - NAO in P2

At least 5 positions constraint

- If number of positions generated are below 5, then we should remove the early goal from the plan
- Remove the compatibility between the second last and the goal
- Take the second last as the new initial position
- Generate a new plan between the new initial position to the intermediate goal

Thank you

- http://doc.aldebaran.com/2-1/naoqi/motion/control-wholebody-tuto.html
- NAOqi Developer guide Aldebaran 2.5.11.14a documentation
- <u>Choregraphe Tutorials Aldebaran 2.1.4.13 documentation</u>

