

NAO PLANNING CHALLENGE 2020

TEAM BURTON'S PROJECT BY:

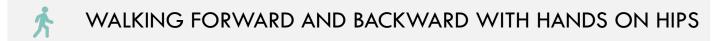
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THE CHOREOGRAPHY









** SHAKING HANDS UPWARDS

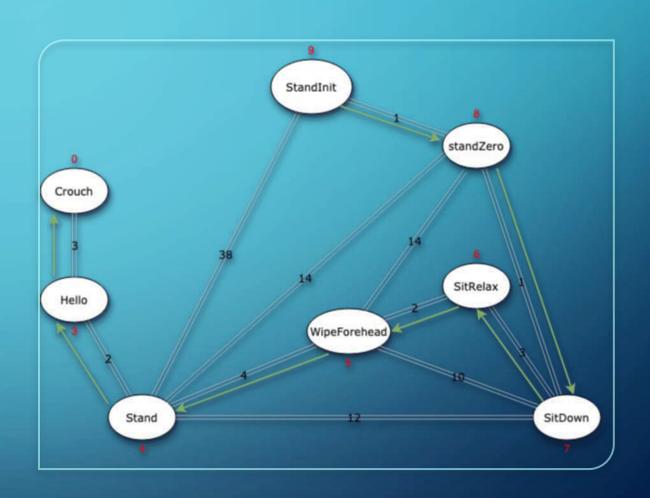
SINGING THE CHORUS MAINFRAME

THE IMPLEMENTATION

- TIMELINES: Create dancing sequences
- DIAGRAMS: Group set of timelines, python code and other boxes due to order issues
- PYTHON BOX CODE: Movements library and A* Graph Algorithm
- SWITCH CASE BOX: Manage the execution of the best path, intended as an Interface between the AI algoroithm and the choregraphe environment

A*GRAPH ALGORITHM

- Each mandatory position has a set of intermediate ones
- Every mandatory is not compatible with all the others
- The algorithm chooses the best path in according to costs and heuruistics
- The best path is an array that is processed by the switch case box





ENJOY THE DEMO

THANKS FOR THE ATTENTION