BaseGlobalPlanner move\_base\_z client ::backward global planner ::BackwardGlobalPlanner - nh - forwardPathSub - planPub - markersPub lastForwardPathMsq - costmap ros - cmd server - skip straight motion distance - puresSpinningRadStep + BackwardGlobalPlanner() + ~BackwardGlobalPlanner() + makePlan() + makePlan() + createDefaultBackwardPath() + createPureSpiningAndStragiht LineBackwardPath() + initialize() onForwardTrailMsq() publishGoalMarker() commandServiceCall()