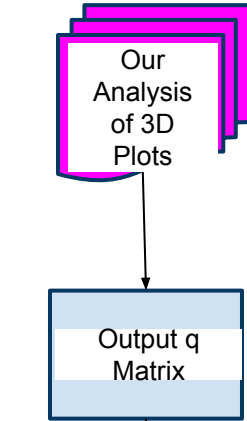
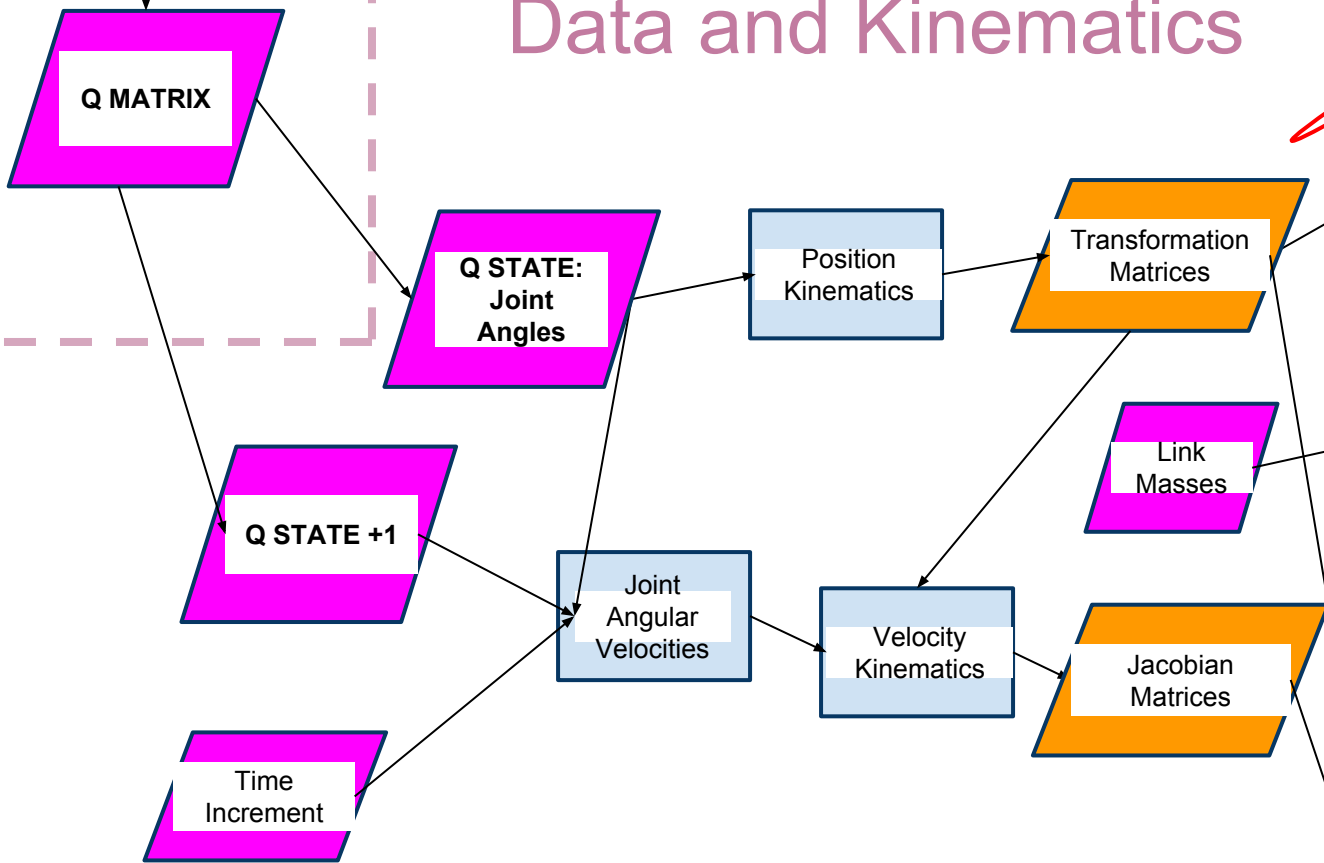


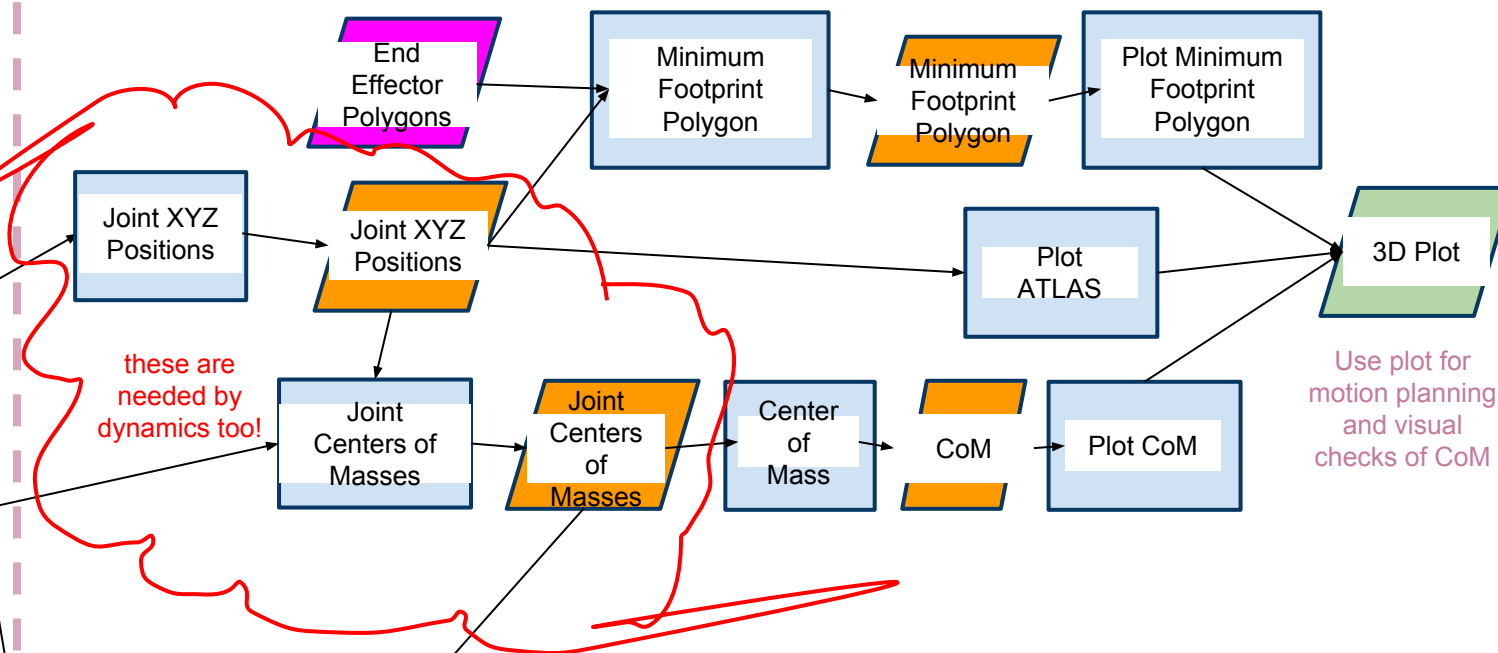
# Output q Matrix



## Data and Kinematics

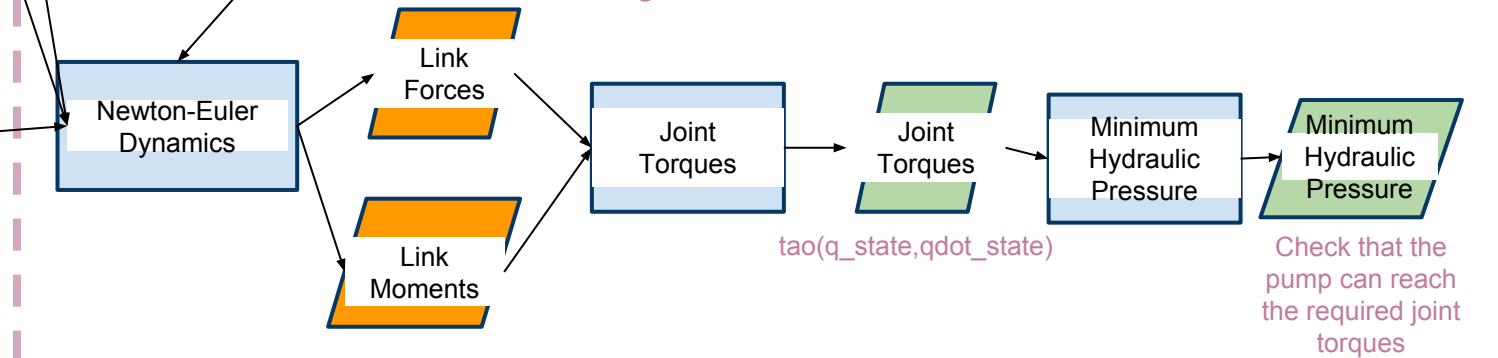


## 3D Plot



these are needed by dynamics too!

## Dynamics



$\tau_{ao}(q\_state, qdot\_state)$

Check that the pump can reach the required joint torques