

# Assignment #3

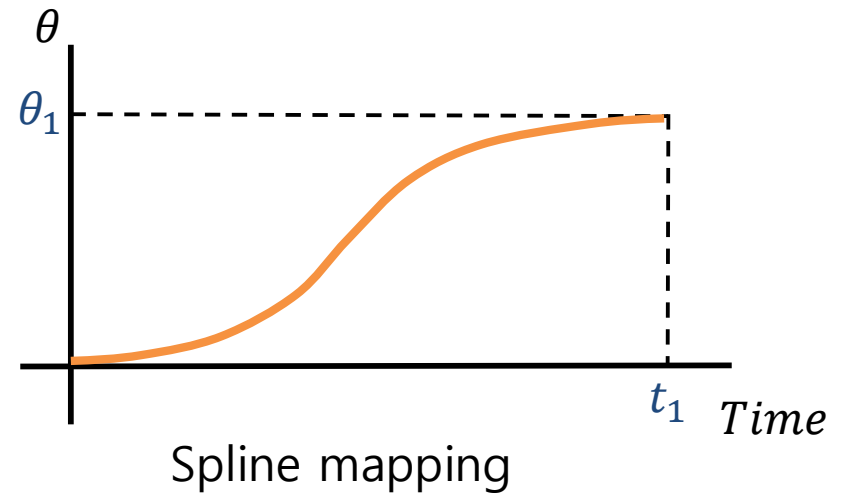
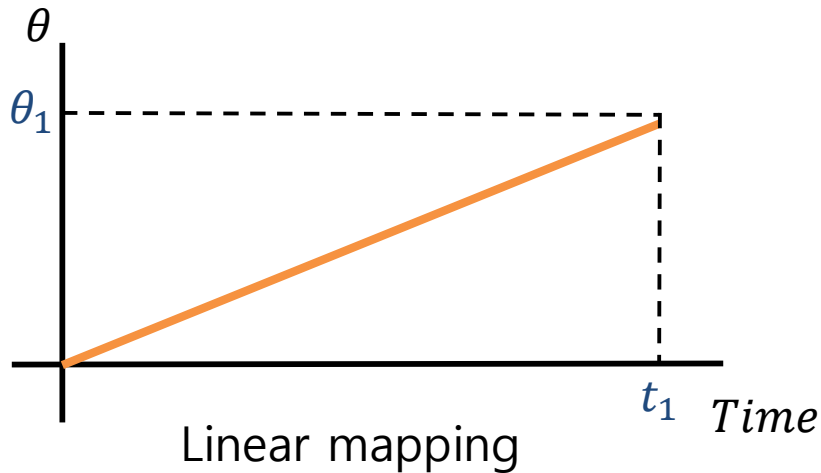


# VR engine으로 Robot Arm 제어

- Requirements
  1. Shading Method
    - Normal mapping with your name and ID.
    - Environment mapping with sky Box.
  2. Hierarchical control of Robot arm
    - Implement a 3 degree of freedom robot arm which is composed of Upper Arm, Lower Arm and Hand.
    - Control the angle of joints by Keyboard callback.
    - Using Python code to control the motion.
- Additional score
  1. Realizing natural motion
    - Control the angle of joints by Update callback.
    - Applying appropriate time-angle mapping.

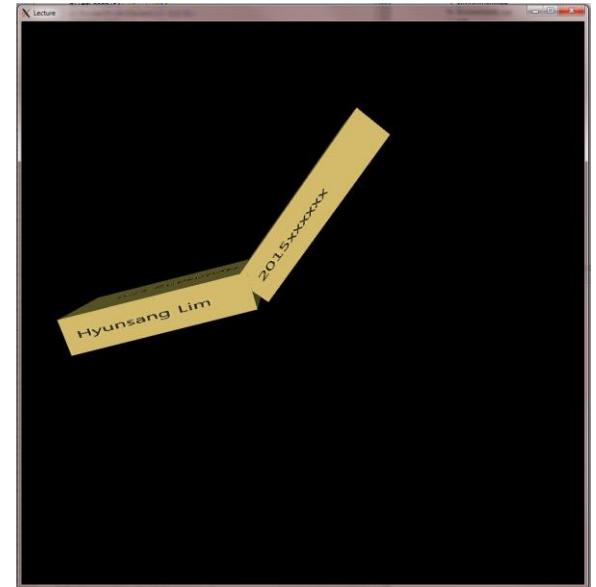
# Additional score: Time-angle mapping.

**Spline mapping looks more natural**



## 2차 숙제와의 다른점

- (1) Using VR Engine(다누리 VR) instead of OpenGL
- (2) Synchronous control of Three joint angles.
- (3) Implementing Environment mapping



[Assignment2 Image]

## Assignment #3

# Result Example (Synchronous control of angles)



# Submit the Assignment

- Submit the zip file @ Blackboard
  - File name must be "Assignment3\_StudentID\_Name.zip"
    - Ex. Assignment3\_2015000000\_박지혁.zip
  - Must include
    - Src file
      - Danuri projectfile(Including Python code)
    - Result running video file
  - Due date: Sunday, 18 November, 23:59