INTRODUCTION

DEEP Q-LEARNING

- Reinforcement learning using NN (Q-network)
- CNN can be used as the Q-network

State S

Action A

Reward **r**

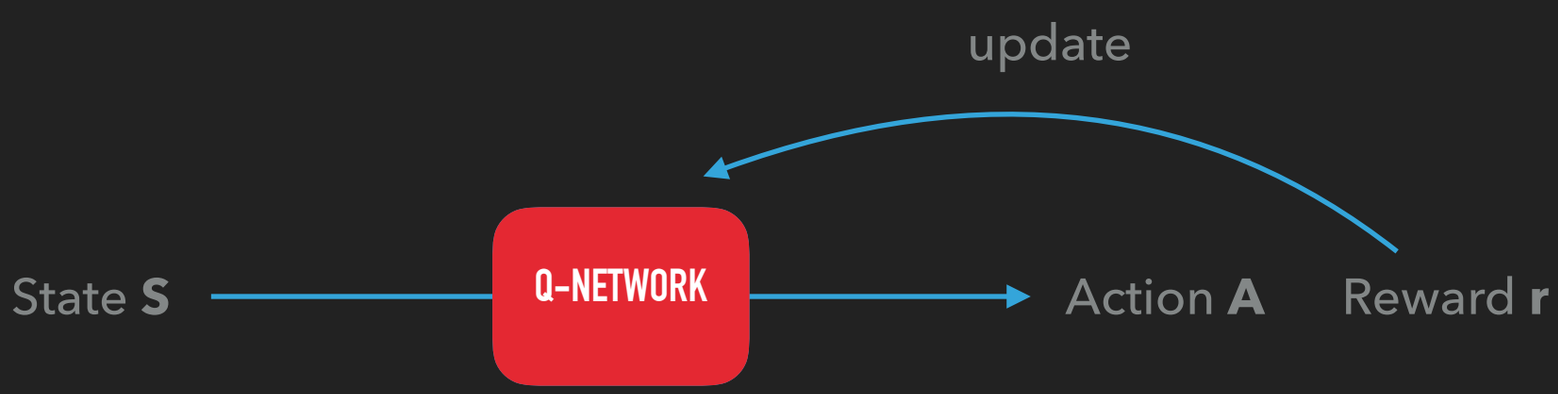
ACTION-VALUE FUNCTION

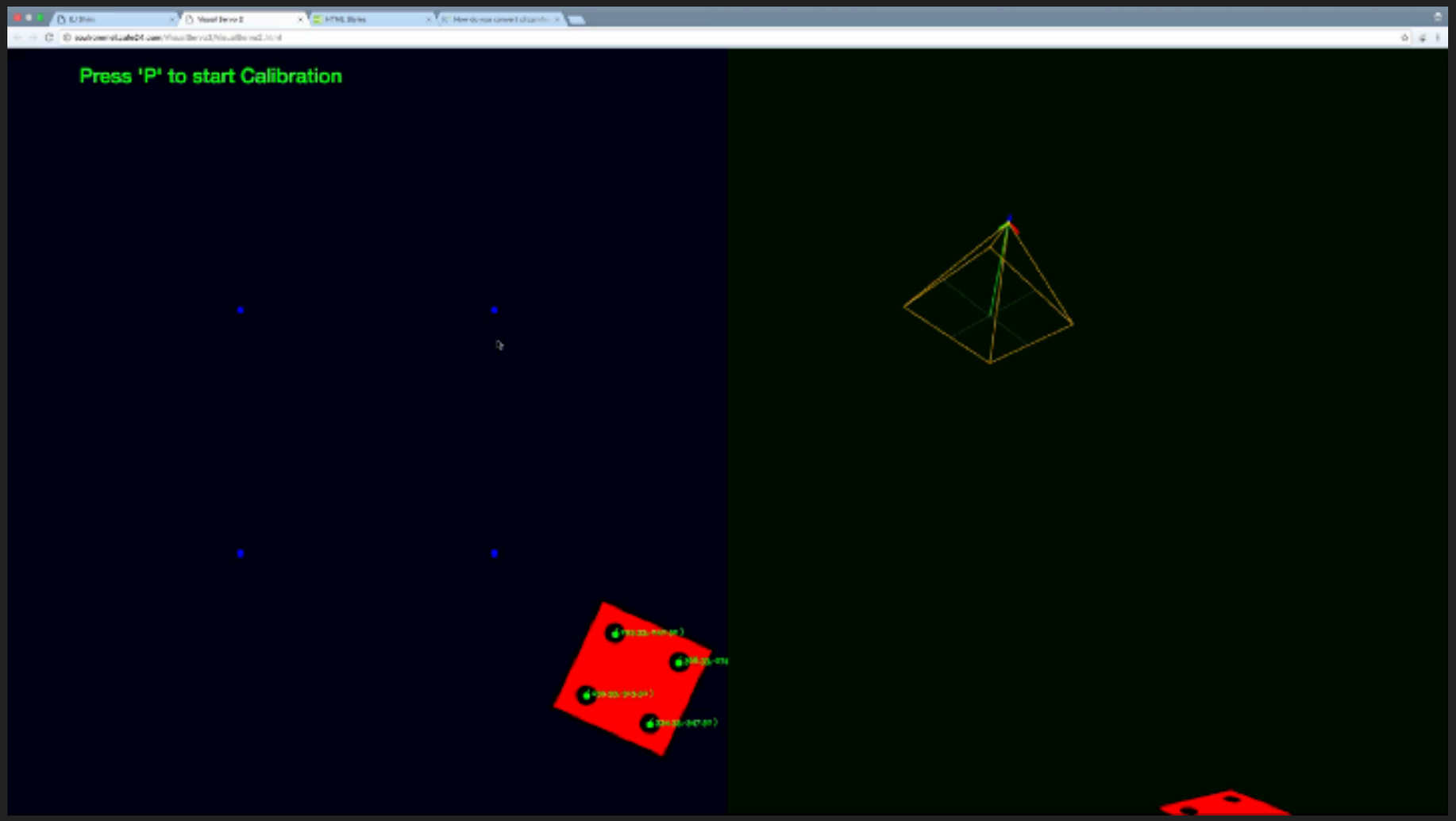
update

Q-NETWORK

DEEP Q-LEARNING

- Reinforcement learning using NN (Q-network)
- CNN can be used as the Q-network



POINT-BASED VISUAL SERVING

- Using 2D features(points) to calibrate 3D
- Computing (pseudo)inverse matrix of state is needed in every time-step