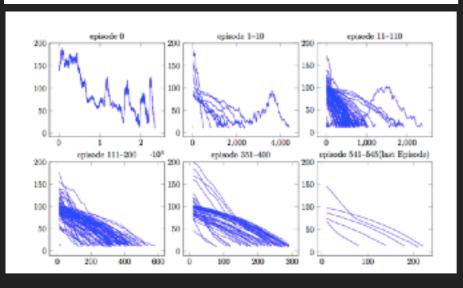
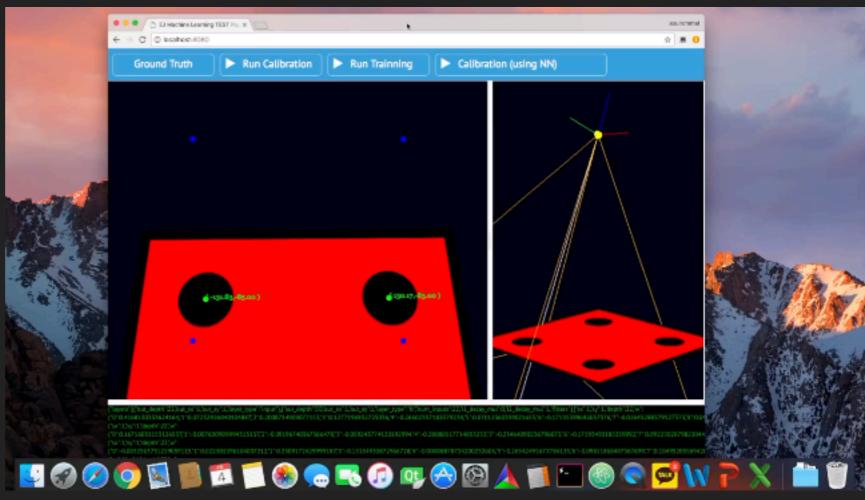
## VISUAL SERVING USING DEEP-Q LEARNING

- ▶ S : four 2D point vectors on camera screen
- A: move (Top, Bottom, Forward, Backward, Right, Left)
- r: Error variation

## **EXPERIMENT**

```
1: camera.RandomPosition()
2: for t in T do
3: a_t = \operatorname{argmax}(Q(s, a; \theta))
4: cam_{pos} = cam_{pos} + a_t
5: E_t = \operatorname{Error}(x_{t+1}) - \operatorname{Error}(x_t)
6: if E \geq 0 then
7: r_t = 1.0
8: else
9: r_t = -1.0
agent.Backward(r_t)
10: if r_t \ leq \ 10.0 then cam_{pos} = random
```





- Episode Start : Camera Random Position
- Episode Done : When Error < N</p>