**Reward 1**

**# =============================================================================**

**# # Reward 1**

**# if nextState[0] >= 0.5 or nextState[0] > episodeMaxDist:**

**# reward += 5**

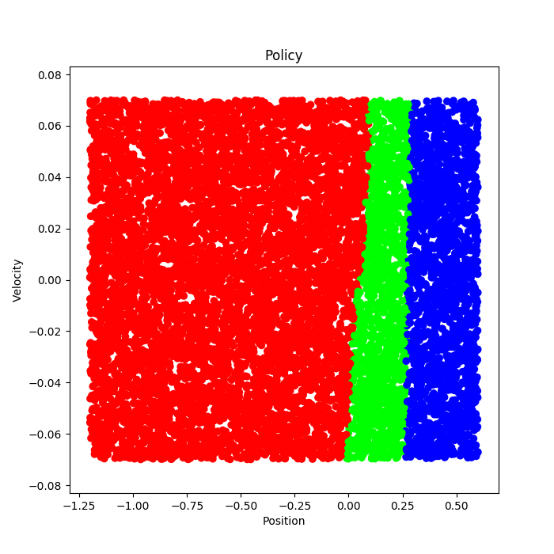
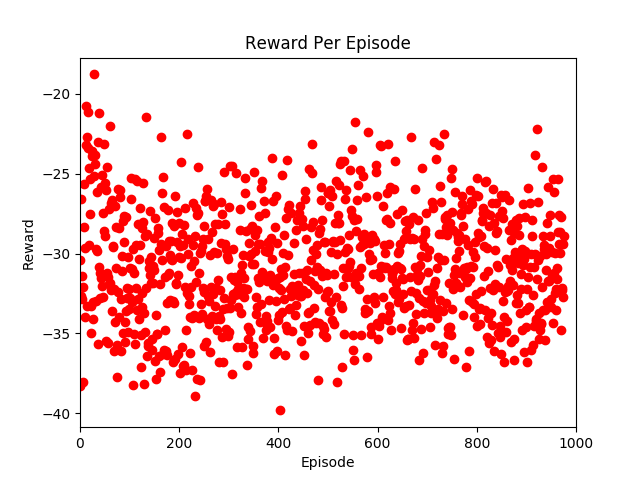
**# else:**

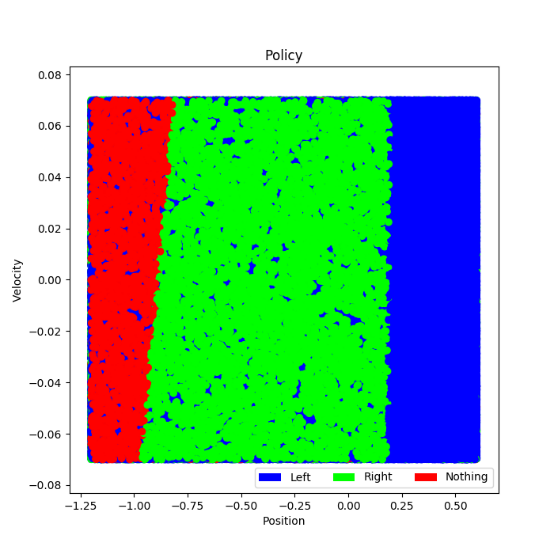
**# reward = nextState[0] + 0.5**

**# =============================================================================**

**NN Architecture 1 with Reward 1**

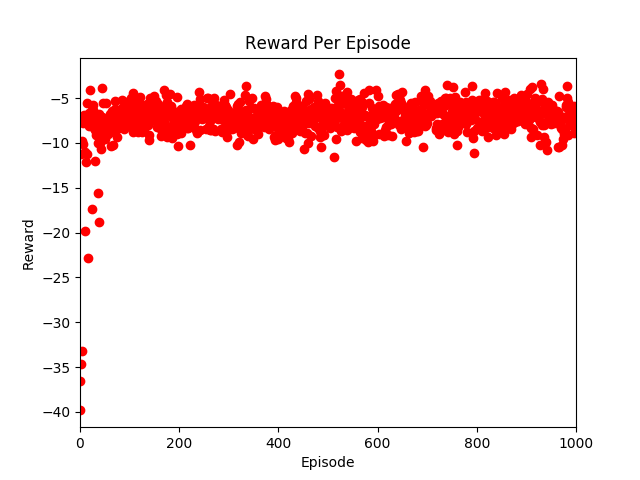
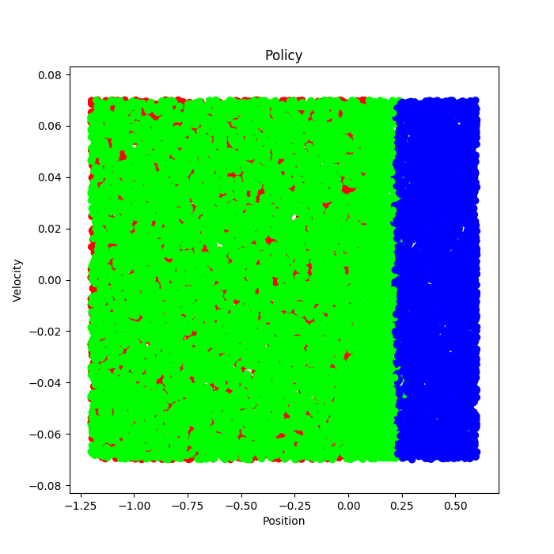
2 \* 50 \* 3

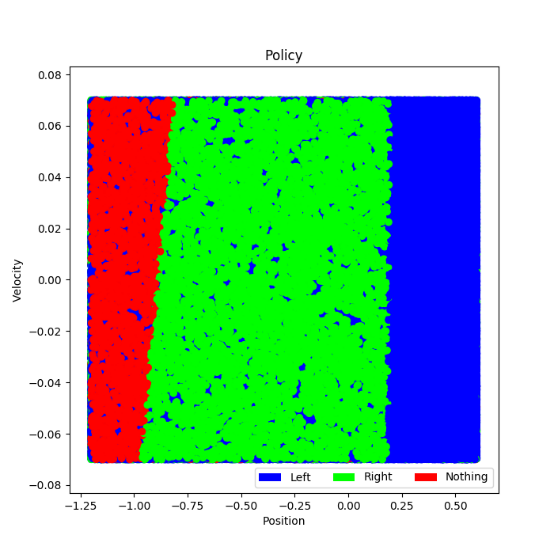
 



**NN Architecture 2 with Reward 1**

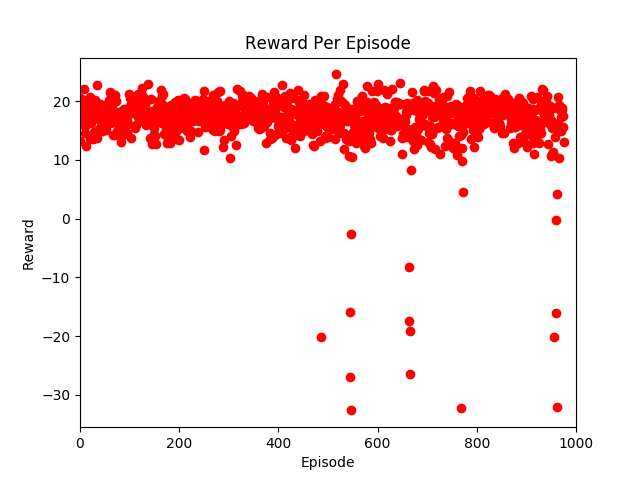
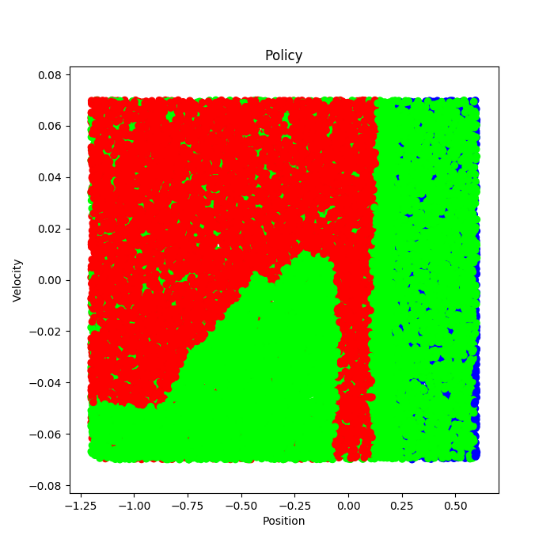
2 \* 128 \* 52 \* 3

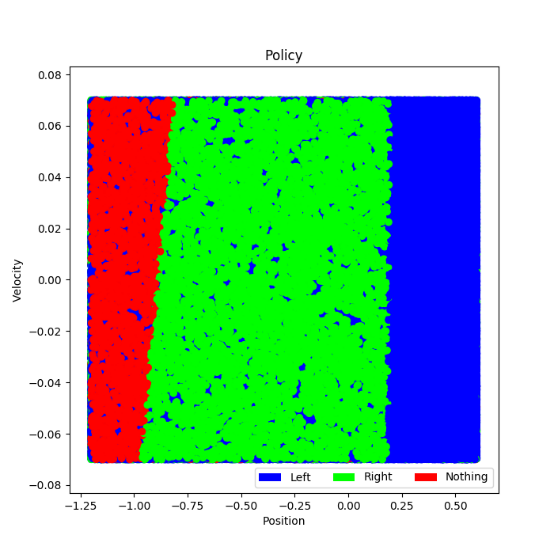




**NN Architecture 3 with Reward 1**

2 \* 34 \* 31 \* 21 \* 19 \* 10 \* 4 \* 3





**Reward 2 with NN Architecture 1**

**# =============================================================================**

**# # Reward 4**

**# sign = np.array([-1.0,0.0,1.0])**

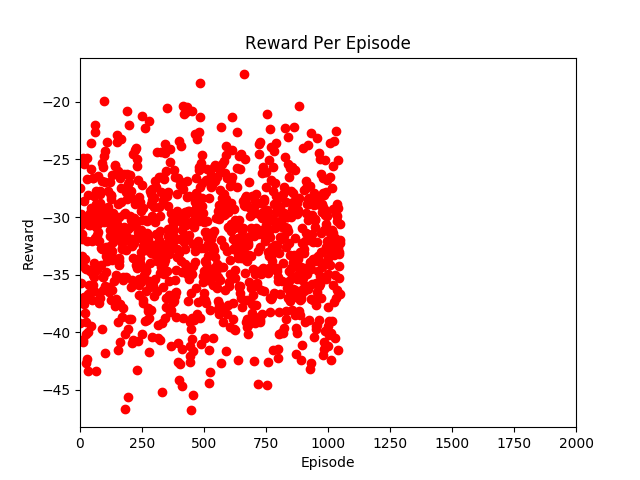
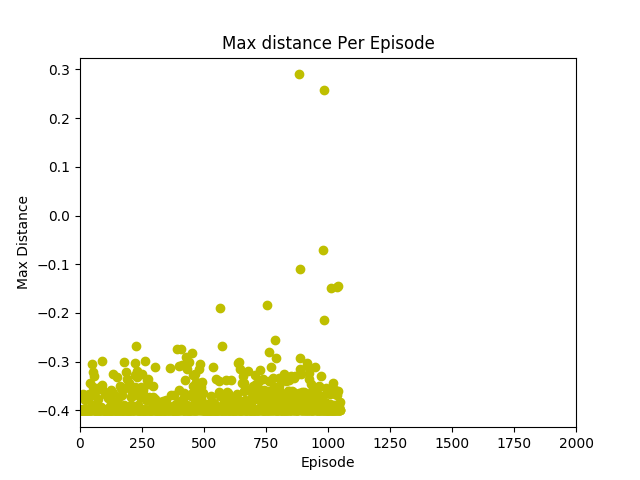
**# if nextState[1]\*sign[action] >= 0:**

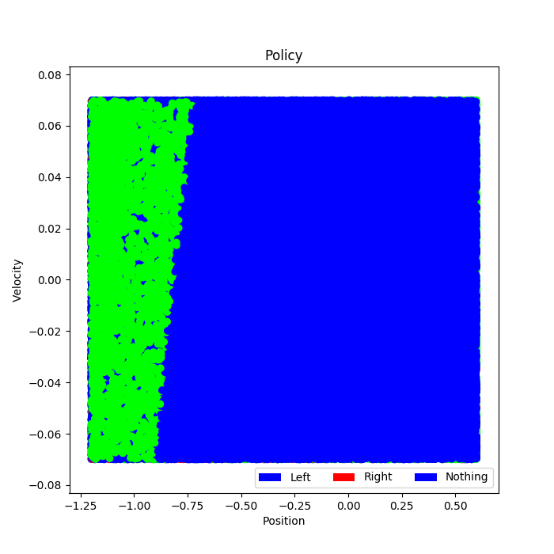
**# reward = nextState[0] + 0.5**

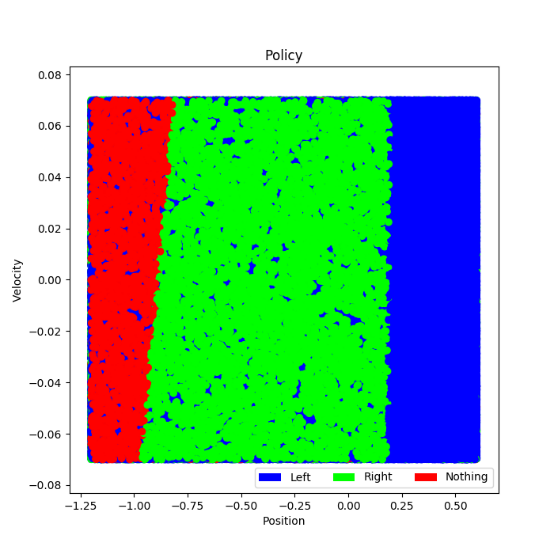
**# else:**

**# reward = nextState[0] - 0.5**

**# =============================================================================**







**Reward 3 with NN Architecture 1**

**# =============================================================================**

**# # Reward 5**

**# sign = np.array([-1.0,0.0,1.0])**

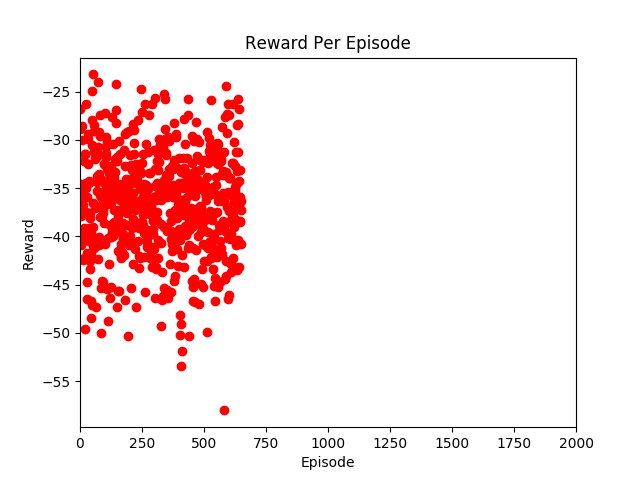
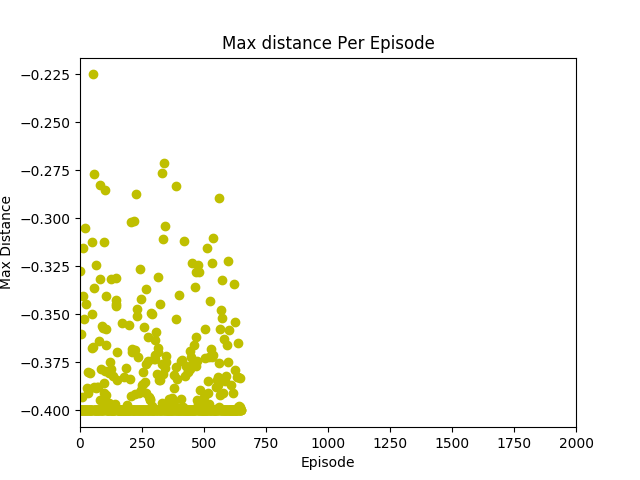
**# if currState[1]\*sign[action] >= 0:**

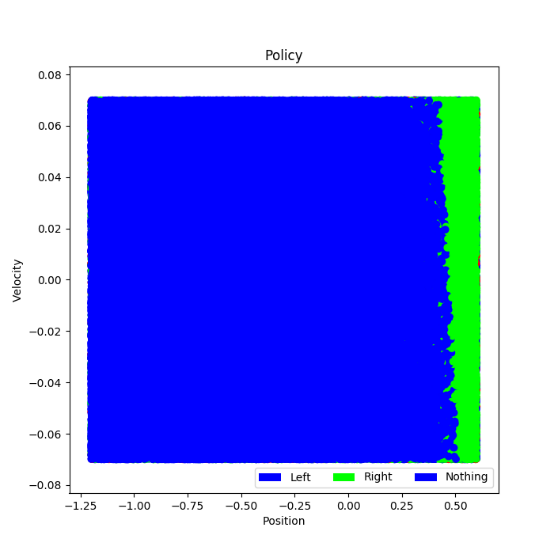
**# reward = nextState[0] + 0.5**

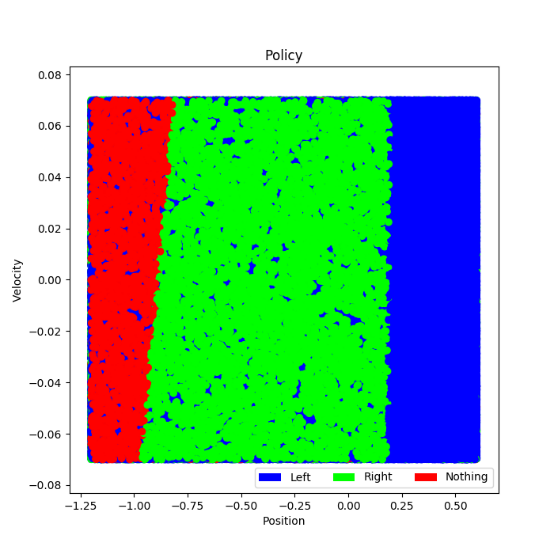
**# else:**

**# reward = nextState[0] - 0.5**

**# =============================================================================**







**Reward 4 with NN Architecture 1**

**# =============================================================================**

**# # Reward 6**

**# sign = np.array([-1.0,0.0,1.0])**

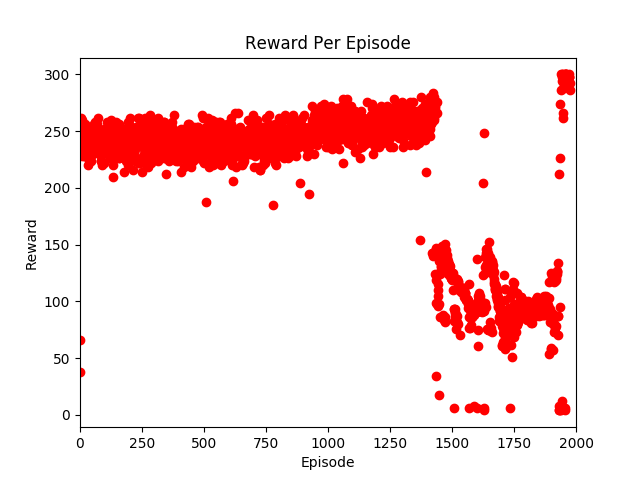
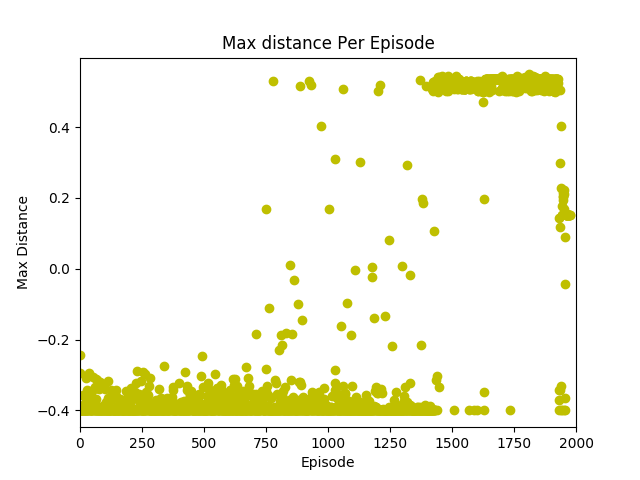
**# if currState[1]\*sign[action] >= 0:**

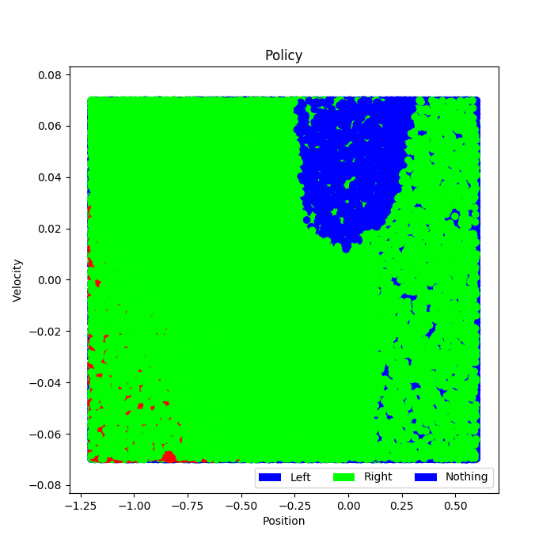
**# reward = 1**

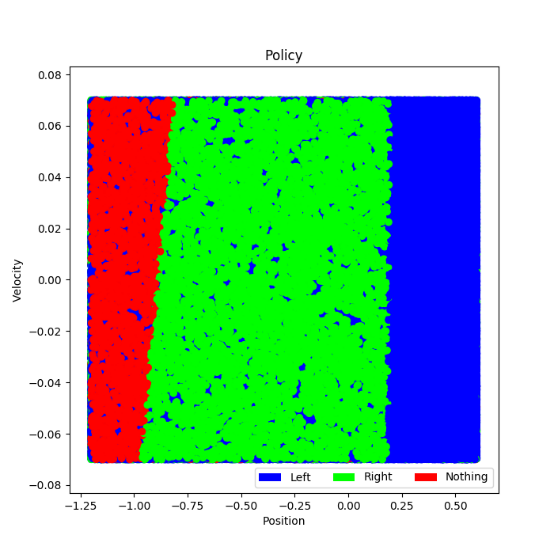
**# else:**

**# reward = -1**

**# =============================================================================**







**Reward 5 with NN Architecture 1**

**# =============================================================================**

**# # Reward 7**

**# sign = np.array([-1.0,0.0,1.0])**

**# if currState[1]\*sign[action] >= 0:**

**# reward = 1**

**# else:**

**# reward = -1**

**# reward = (0.999\*\*step) \* reward**

**# =============================================================================**

