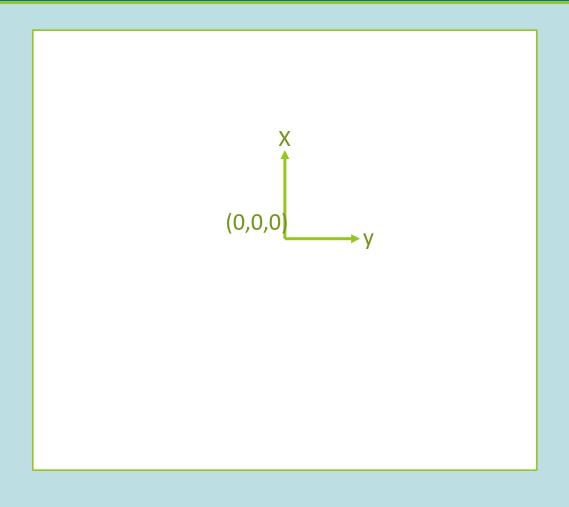


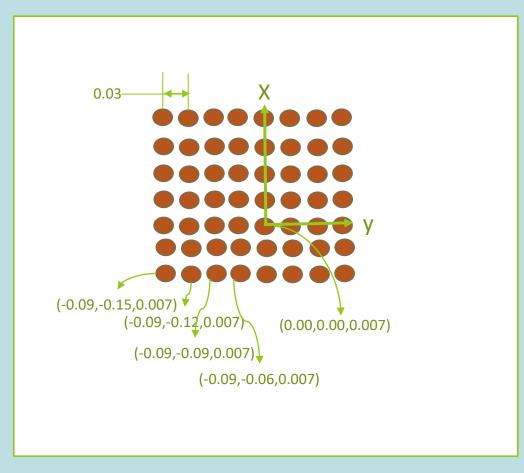
- Tasks
- Run with new action corner in policy X Losses still increase
- Write a stable baselines implementation
- Problems
- Learning results unexpected
- Memory gets saturated in Stable Baselines implementation
- To-Do Items for Next Week
- Make stable baselines implementation work
- Show code corresponding to learning plots
- Add all hyperparameters used







25/05/21



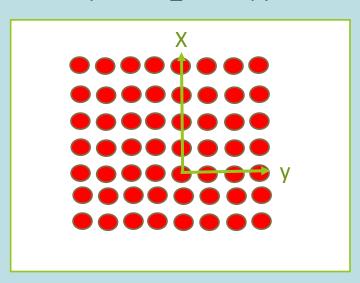
Defined in cloth_corner.xml



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State

Exp : Cloth_corner.py



```
Action [-1, -1, -1] to [1, 1, 1] on 1 random corner
```

To environment scale = *0.05

Force applied = proportional to the distance to be moved (0.05, 0.05)

(-0.05, -0.05)

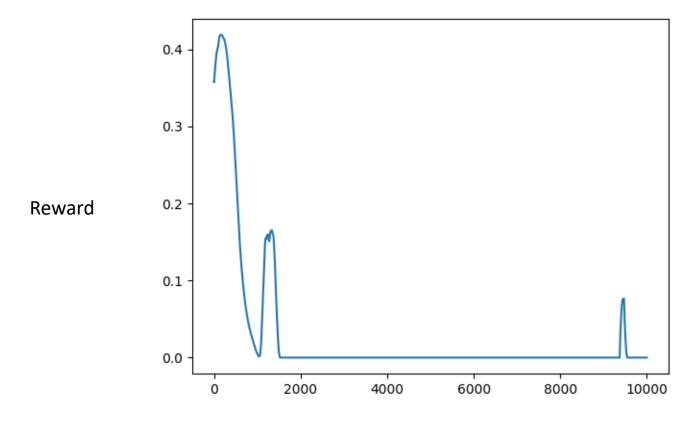
OR [X, X, X, X, -1, -1, -1] to [X, X, X, X 1, 1, 1]

Where XXXX is a one hot representation of a corner

[1,0,0,0] – Corner 1 [0,1,0,0] – Corner 2 [0,0,1,0] – Corner 3 [0,0,0,1] – Corner 4



1 step = no. of steps in 1 episode / game



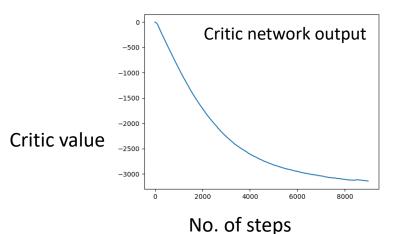
No. of steps

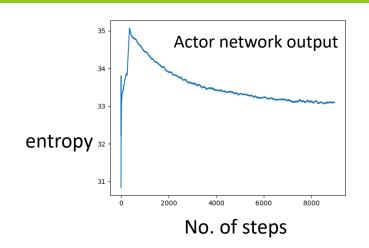


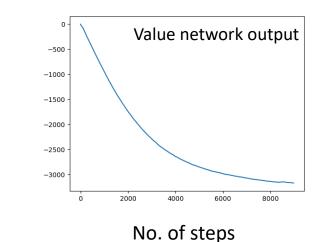
Value

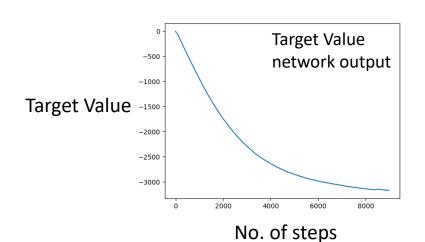
Weekly Review

1 step = average value over 1 batch









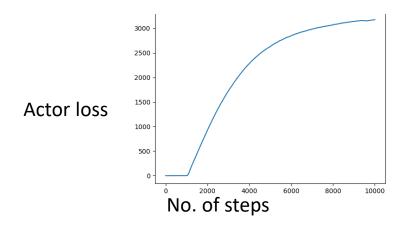


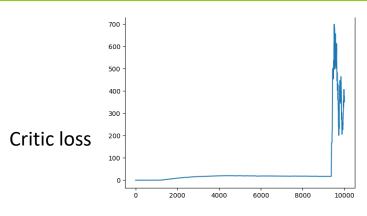
1 step = loss after 1 batch

100

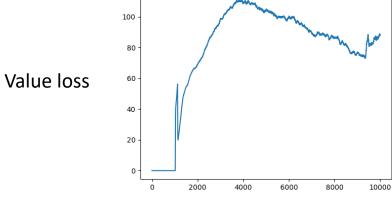
20

Target Value loss ⁶⁰





No. of steps (batch_size)





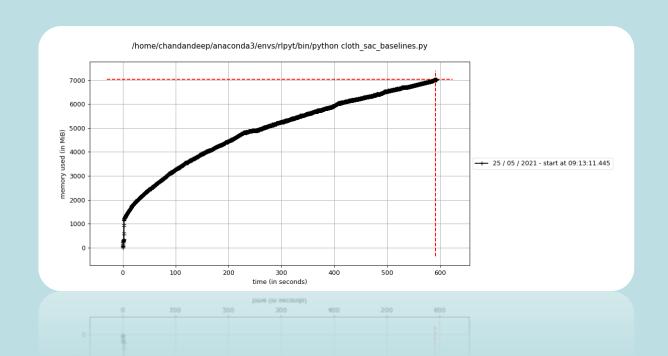
No. of steps (batch_size)



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Stable baselines implementation

- Convert DMControlSuite cloth_corner environment to OpenAI gym environment
- Memory gets saturated on running





THANK YOU