

## train\_examples\_local\_naive\_net

February 2, 2022

```
[ ]: import os
import sys
from tensorflow.python.lib.io import file_io
from pickle import Unpickler
import numpy as np
from matplotlib import pyplot as plt
import numpy as np

def load_z_s(number):
    path = f'/run/media/ture/Backup Plus/data/2022-01-28_local_training/
    ↪checkpoint_{number}.pth.tar.examples'
    train_examples_history = []
    if not os.path.isfile(path):
        print(f'File "{path}" with trainExamples not found!')
        r = input("Continue? [y|n]")
        if r != "y":
            sys.exit()
    else:
        print("File with trainExamples found. Loading it...")
        with file_io.FileIO(path, "rb") as f:
            train_examples_history = Unpickler(f).load()
        print('Loading done!')
    z_s = []
    for experience in train_examples_history:
        z = experience[2]
        z_s.append(z)
    return z_s

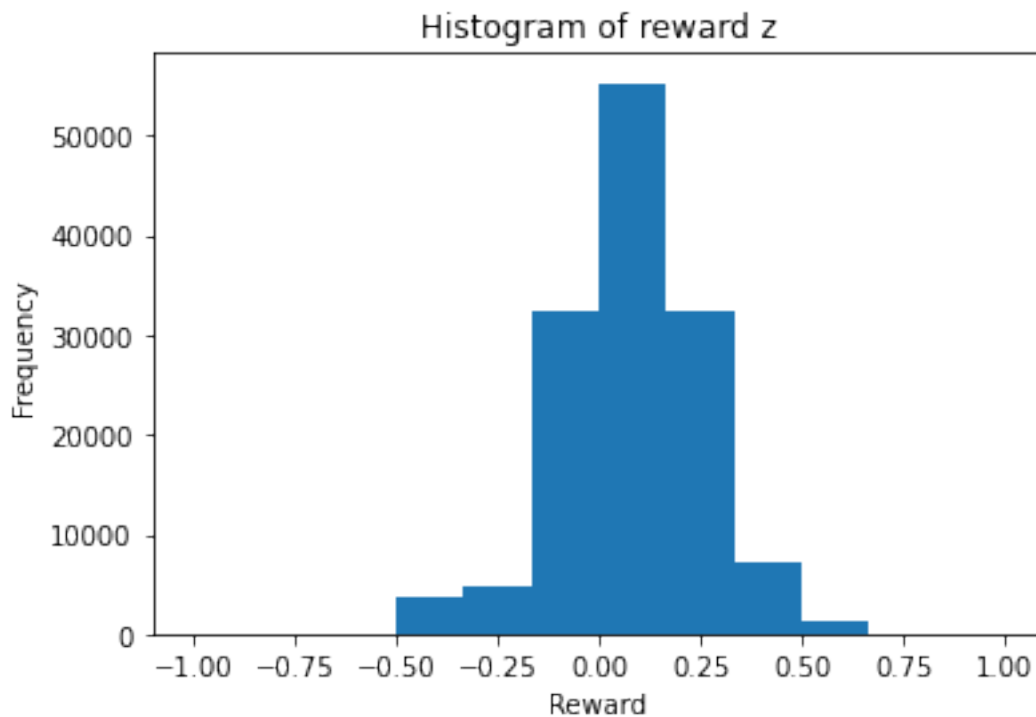
def hist(z_s):
    plt.hist(z_s, bins = [-1, -5/6, -2/3, -1/2, -1/3, -1/6, -1e-08, 1e-08, 1/6,
    ↪1/3, 1/2, 2/3, 5/6, 1], density=False)
    plt.title("Histogram of reward z")
    plt.xlabel("Reward")
    plt.ylabel("Frequency")
    plt.show()
```

```
z_s_1 = load_z_s(5)

print(np.median(z_s_1))
print(np.mean(z_s_1))
```

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-1e-08  
-1.6722060624415436e-11

```
[ ]: hist(z_s_1)
```



```
[ ]: z_s_10 = load_z_s(20)
hist(z_s_10)
```

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