

## First attempt on my own computer:

I ran the code and laid out in the read me file on github. I followed the suggestions in Slack to copy and paste the LICENSE for ezip into the wordplay/ directory and change the license line in the py\_\_\_\_.toml file before running. After doing these things I ran into the following error:

```
(2024-08-08) (2024-08-08/base) [edoyl8@sophia-gpu-13 wordplay]$ mpirun -n "${NGPUS}" python3 -m wordplay \
  train.backend=DDP \
  train.eval_interval=100 \
  data=shakespeare \
  train.dtype=bf16 \
  model.batch_size=64 \
  model.block_size=1024 \
  train.max_iters=1000 \
  train.log_interval=10 \
  train.compile=false
/home/edoyl8/wordplay/venvs/2024-08-08/bin/python3: No module named wordplay.__main__; 'wordplay' is a package and cannot be directly executed
/home/edoyl8/wordplay/venvs/2024-08-08/bin/python3: No module named wordplay.__main__; 'wordplay' is a package and cannot be directly executed
/home/edoyl8/wordplay/venvs/2024-08-08/bin/python3: No module named wordplay.__main__; 'wordplay' is a package and cannot be directly executed
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/home/edoyl8/wordplay/venvs/2024-08-08/bin/python3: No module named wordplay.__main__; 'wordplay' is a package and cannot be directly executed
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prterun detected that one or more processes exited with non-zero status,
thus causing the job to be terminated. The first process to do so was:

Process name: [prterun-sophia-gpu-13-215151@1,7] Exit code: 1
-----
(2024-08-08) (2024-08-08/base) [edoyl8@sophia-gpu-13 wordplay]$
```

I had tried a lot of different combinations of commands in the license line of the py\_\_\_\_.toml file, names of the new license file, etc and I kept receiving the “no module called wordplay error”. I finally got the run to produce the new error shown above. I am concerned that I changed something in all my trouble shooting that is making it unable to run the operation. I logged out of the system, closed out of the terminal and completely restarted the process a few times, and each time I got a message that there was already files present when trying to clone the directories.

## Deleted all of the wordplay depositories that I kept cloning into each other and got it to work!!!!

```
Nurse:
But for I she maist late in to tears,
To
[2024-11-22 18:59:06.875188][INFO][trainer.py:762] - Saving checkpoint to: /home/edoyl8/outputs/runs/pytorch/DDP/2024-11-22/18-54-50
[2024-11-22 18:59:06.876961][INFO][trainer.py:763] - Saving model to: /home/edoyl8/outputs/runs/pytorch/DDP/2024-11-22/18-54-50/model.pth
[2024-11-22 18:59:09.572918][INFO][configs.py:141] - Appending /home/edoyl8/outputs/runs/pytorch/DDP/2024-11-22/18-54-50 to /home/edoyl8/wordplay/src/ckpts/checkpoints.log
[2024-11-22 18:59:12.603104][INFO][trainer.py:892] - step=310 Loss=1.45247 dt=0.290539 dtf=0.00607639 dtb=0.0160197 sps=27.535 sps_per_gpu=3.44188 tps=1.80453e+06 tps_per_gpu=225567 mfu=44.3255
[2024-11-22 18:59:15.580783][INFO][trainer.py:892] - step=320 Loss=1.42799 dt=0.301531 dtf=0.00598414 dtb=0.013798 sps=26.5313 sps_per_gpu=3.31641 tps=1.73875e+06 tps_per_gpu=217344 mfu=44.2348
[2024-11-22 18:59:18.577802][INFO][trainer.py:892] - step=330 Loss=1.37219 dt=0.291703 dtf=0.00609449 dtb=0.0141068 sps=27.4251 sps_per_gpu=3.42814 tps=1.79733e+06 tps_per_gpu=224667 mfu=44.2994
[2024-11-22 18:59:21.606396][INFO][trainer.py:892] - step=340 Loss=1.3505 dt=0.29517 dtf=0.00596841 dtb=0.0208429 sps=27.1031 sps_per_gpu=3.38788 tps=1.77623e+06 tps_per_gpu=222028 mfu=44.3048
[2024-11-22 18:59:24.575782][INFO][trainer.py:892] - step=350 Loss=1.29872 dt=0.288368 dtf=0.00644761 dtb=0.0145468 sps=27.7423 sps_per_gpu=3.46779 tps=1.81812e+06 tps_per_gpu=227265 mfu=44.4143
[2024-11-22 18:59:27.537190][INFO][trainer.py:892] - step=360 Loss=1.26441 dt=0.302448 dtf=0.00665918 dtb=0.0191305 sps=26.4508 sps_per_gpu=3.30636 tps=1.73348e+06 tps_per_gpu=216685 mfu=44.3915
[2024-11-22 18:59:30.513055][INFO][trainer.py:892] - step=370 Loss=1.21488 dt=0.297198 dtf=0.00619875 dtb=0.0214786 sps=26.9181 sps_per_gpu=3.36476 tps=1.7641e+06 tps_per_gpu=220513 mfu=44.2764
[2024-11-22 18:59:33.545598][INFO][trainer.py:892] - step=380 Loss=1.2016 dt=0.303977 dtf=0.00620597 dtb=0.0141384 sps=26.3178 sps_per_gpu=3.28972 tps=1.72476e+06 tps_per_gpu=215595 mfu=44.1556
[2024-11-22 18:59:36.597614][INFO][trainer.py:892] - step=390 Loss=1.1708 dt=0.309818 dtf=0.00579439 dtb=0.0218974 sps=25.8216 sps_per_gpu=3.2277 tps=1.69225e+06 tps_per_gpu=211531 mfu=43.9657
[2024-11-22 18:59:39.615577][INFO][trainer.py:892] - step=400 Loss=1.11021 dt=0.301466 dtf=0.00635191 dtb=0.0147184 sps=26.537 sps_per_gpu=3.31712 tps=1.73913e+06 tps_per_gpu=217391 mfu=43.9119
[2024-11-22 18:59:40.740031][INFO][trainer.py:827] - ['prompt': 'What is an LLM?']
[2024-11-22 18:59:40.741515][INFO][trainer.py:831] - ['response']:

What is an LLM?

Nurse:
Go, go you but then your takes to your choice?

JULIET:
It is not of be near to chide to-morrow.

Nurse:
The draw your childness doth these lost then thereof.

JULIET:
If the king again; which you have reconceived me them?
A hour woman confest, a
```

The screenshot shows a JupyterLab environment. On the left is a file explorer with a search bar and a list of files and folders. The main area is split into two panes. The left pane shows a terminal window with the following output:

```
edoyl8@sophia-gpu-02:~/X
[2024-11-22 19:01:28.972756] [INFO] [trainer.py:762] - Saving checkpoint to: /home/edoyl8/outputs/pytorch/DDP/2024-11-22/18-54-50
[2024-11-22 19:01:28.974588] [INFO] [trainer.py:763] - Saving model to: /home/edoyl8/outputs/pytorch/DDP/2024-11-22/18-54-50/model.pth
[2024-11-22 19:01:31.683157] [INFO] [configs.py:141] - Appending /home/edoyl8/outputs/pytorch/DDP/2024-11-22/18-54-50 to /home/edoyl8/wordplay/src/ckpts/checkpoints.log
[2024-11-22 19:01:34.709800] [INFO] [trainer.py:892] - step=518 Loss=0.544502 dt=0.313398 dtf=0.00612145 dtb=0.0135153 sps=25.5206 sps_per_gpu=3.19083 tps=1.07291e+06 tps_per_gpu=209114 nfu=4
3.8595
[2024-11-22 19:01:37.715914] [INFO] [trainer.py:892] - step=520 Loss=0.494276 dt=0.298402 dtf=0.00704893 dtb=0.0109662 sps=26.8094 sps_per_gpu=3.35118 tps=1.75698e+06 tps_per_gpu=219623 nfu=4
3.8609
[2024-11-22 19:01:40.710970] [INFO] [trainer.py:892] - step=530 Loss=0.427719 dt=0.303047 dtf=0.00633254 dtb=0.0156215 sps=26.3985 sps_per_gpu=3.29981 tps=1.73005e+06 tps_per_gpu=216257 nfu=4
3.7949
[2024-11-22 19:01:43.737384] [INFO] [trainer.py:892] - step=540 Loss=0.331544 dt=0.301251 dtf=0.00637225 dtb=0.0160417 sps=26.5559 sps_per_gpu=3.31949 tps=1.74037e+06 tps_per_gpu=217546 nfu=4
3.7012
[2024-11-22 19:01:46.774380] [INFO] [trainer.py:892] - step=550 Loss=0.256348 dt=0.299275 dtf=0.00626009 dtb=0.0146994 sps=26.7312 sps_per_gpu=3.3414 tps=1.75186e+06 tps_per_gpu=218982 nfu=4
3.7590
[2024-11-22 19:01:49.887395] [INFO] [trainer.py:892] - step=560 Loss=0.203992 dt=0.318225 dtf=0.00612267 dtb=0.013887 sps=25.1394 sps_per_gpu=3.14243 tps=1.64754e+06 tps_per_gpu=205942 nfu=4
3.4976
[2024-11-22 19:01:52.867194] [INFO] [trainer.py:892] - step=570 Loss=0.195066 dt=0.314866 dtf=0.00606154 dtb=0.0135657 sps=25.4076 sps_per_gpu=3.17595 tps=1.66511e+06 tps_per_gpu=208139 nfu=4
3.3050
[2024-11-22 19:01:55.945169] [INFO] [trainer.py:892] - step=580 Loss=0.152932 dt=0.297997 dtf=0.00643686 dtb=0.0138809 sps=26.8459 sps_per_gpu=3.35574 tps=1.75937e+06 tps_per_gpu=219921 nfu=4
3.3085
[2024-11-22 19:01:59.003019] [INFO] [trainer.py:892] - step=590 Loss=0.120945 dt=0.311712 dtf=0.00675369 dtb=0.0144641 sps=25.6647 sps_per_gpu=3.20809 tps=1.68196e+06 tps_per_gpu=210245 nfu=4
3.2316
[2024-11-22 19:02:02.049694] [INFO] [trainer.py:892] - step=600 Loss=0.091535 dt=0.287532 dtf=0.00638028 dtb=0.0271261 sps=27.823 sps_per_gpu=3.47788 tps=1.82341e+06 tps_per_gpu=227926 nfu=4
3.0810
[2024-11-22 19:02:03.168420] [INFO] [trainer.py:827] - 'prompt': 'What is an LLM?'
[2024-11-22 19:02:03.169326] [INFO] [trainer.py:831] - 'response':

What is an LLM?

DUKE unless and him in day.

LUCIO:
It may be appointed at all
A lieeous of an a schoolvery evil:
I have no earneds the duke that I,
To be well seen thee: so long as free
The precess of the people's son,
The teethat bears of this spalcenter'd,
Which for
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Wandb link: <https://wandb.ai/edoyl8-university-of-chicago/WordPlay?nw=nwuseredoyl8>