Visualization tool for Marian

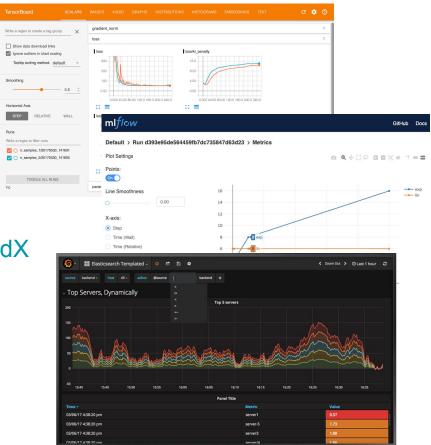
https://marian-nmt.github.io

Tomek, Roman, Michal, Marcin x2

Tools

- MLflow https://mlflow.org/
- TensorBoardX
 https://github.com/lanpa/tensorboardX
- Grafana https://grafana.com/

none is perfect...



Progress

- Testing 3 tools
- System design
 - marian (client) sends logs via REST API to marian-board.py (server)
 - marian-board.py is running TensorBoardX and/or MLflow
- Refactoring logging of training updates in scheduler
- Parser for training logs
- Demos for MLflow and TensorBoardX

Usage

Single machine:

- ./marian-board.py
- ./build/marian <options> --exp-id ende_123 --board

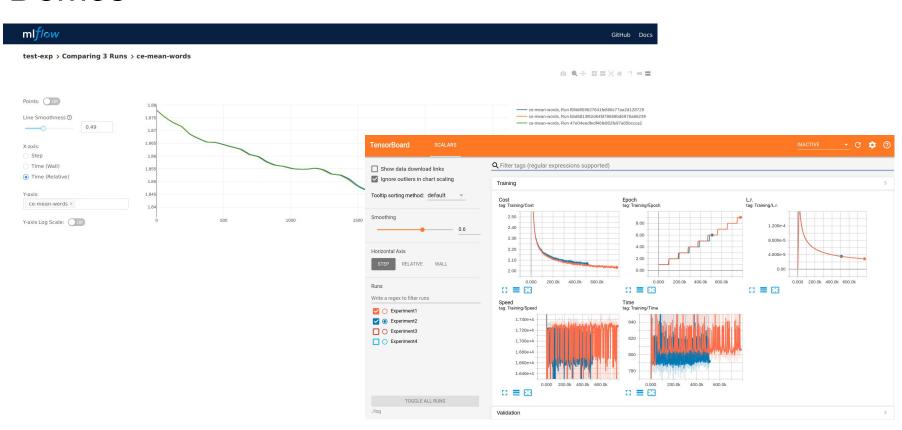
Two machines:

- ./marian-board.py --port 2222
- ./build/marian <options> --exp-id ende_123 --board 321.123.45.6:2222

Historical experiments:

• ./marian-board-logger.py --exp-id ende_102 --log train.log

Demos



Extending: Hyperdash

A fun tool for sending logs to your phone:

- Problem
 - unclear security situation / terms of service
- Solution
 - run marian-board.py outside corpnet, connect marian to marian-board.py securely



