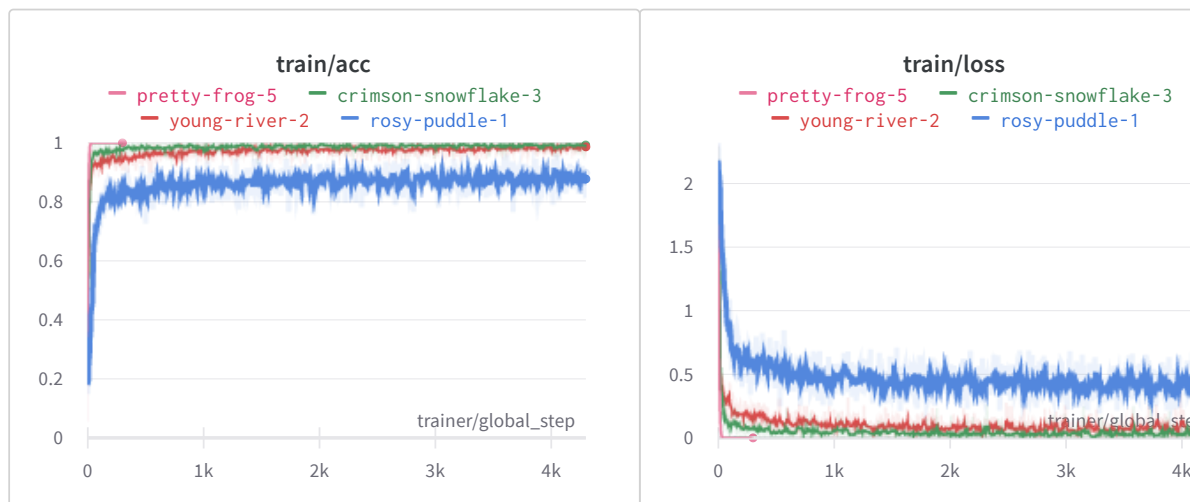# MLUGS 2021-01 - overfitting
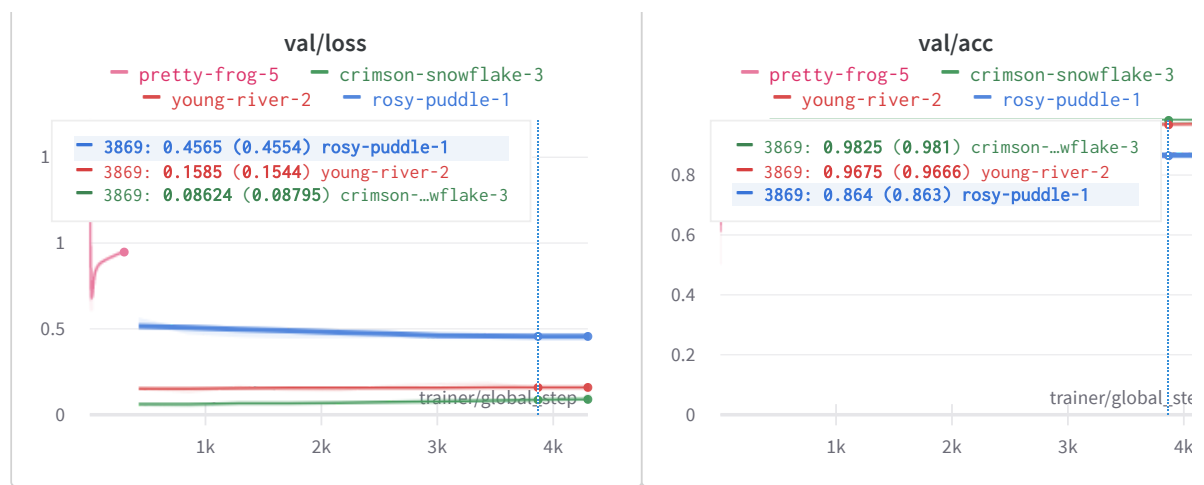
show overfitting by training a very small dataset in MNIST vs. "normal" trainings of MNIST.

Andreas Madsack

▾ Training

Name (4 visualized)	State	Notes
👁 🔴 pretty-frog-5	finished	overfit (3 batches for train; a lot
👁 🟢 crimson-snowflake-3	finished	CNN
👁 🔴 young-river-2	finished	hidden_size=128; linear model
👁 🔵 rosy-puddle-1	finished	hidden_size=5; linear model

Run set 4

1-4 ▾ of 4 ‹ ›

val/loss

- pretty-frog-5
- young-river-2
- crimson-snowflake-3
- rosy-puddle-1

3869: 0.4565 (0.4554) rosy-puddle-1
3869: 0.1585 (0.1544) young-river-2
3869: 0.08624 (0.08795) crimson-…wflake-3

trainer/global step

val/acc

- pretty-frog-5
- young-river-2
- crimson-snowflake-3
- rosy-puddle-1

3869: 0.9825 (0.981) crimson-…wflake-3
3869: 0.9675 (0.9666) young-river-2
3869: 0.864 (0.863) rosy-puddle-1

trainer/global ste

☑

Run set 4 ⋮

Name (4 visualized)	State	Notes
👁 🔴 pretty-frog-5	finished	overfit (3 batches for train; a lot
👁 🟢 crimson-snowflake-3	finished	CNN
👁 🔴 young-river-2	finished	hidden_size=128; linear model
👁 🔵 rosy-puddle-1	finished	hidden_size=5; linear model

1-4 ▾ of 4 ‹ ›

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https://wandb.ai/mfa/mlugs-overfitting/reports/MLUGS-2021-01-overfitting--VmlldzoxNDQ3MDM3?
accessToken=uckvmib0s1zbifx1vpjkl0um2wg15fek2ske6mzkuts5blg0rzmy67uka8ckgbcn

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