chainerboard Documentation

Release 0.1.5

Yuta Koreeda

Dec 24, 2017

Contents

An unofficial visualization tool for chainer, inspired by tensorboard. The toolkit allows visualization of log from `chainer.extensions.LogReport`.

Example usage:

```
model = L.Classifier(MyModel())

optimizer = chainer.optimizers.Adam()
optimizer.setup(model)

train = create_my_data()
train_iter = chainer.iterators.SerialIterator(train, batchsize)

updater = training.StandardUpdater(train_iter, optimizer)
trainer = training.Trainer(updater, (epochs, 'epoch'), out='path/to/output')

trainer.extend(extensions.LogReport(log_name='my_log_data'))
# optional; allows visualization of parameters
trainer.extend(extensions.ParameterStatistics(model))

# Run the training
trainer.run()
```

and point chainerboard at the output log file to start local http server.

```
chainerboard path/to/output/my_log_name
```

now open http://localhost:6006/ to view the log.

Warning: The author of this project is not a professional web programmer. Never use the project on remote server since it may impose serious security risks.

CHAPTER 1

Development

To setup development environment:

```
pip install -r requirements.txt
```

For testing,

```
tox
```

Build document

```
python setup.py build_sphinx
```

CHAPTER 2

CHANGELOG

2.1 v0.1.5

- Feature:
  - Compatibility with Python 3 (#14)
  - Quiettend log level (#11)
  - Added *–version* to CLI (#7)
  - Added help message to CLI
- Bugfix:
  - Detect changes in irrerelvant files (#10)

2.2 v0.1.4

- Bugfix:
  - Auto-update was not working
  - It was occasionally causing OSError (#5)

2.3 v0.1.3

- Bugfix:
  - Hot fix for a syntactic bug introduced in v0.1.2

2.4 v0.1.2

- Bugfix:
  - Plotting fails when 'Infinity' is present (#2)

2.5 v0.1.1

- Downgraded to more stable bootstrap 3
- Connection error (distruption) is now handled more gracefully.
- Prettified front end app.

2.6 v0.1.0

- First alpha release.
- Basic visualization of accuracy and loss.
- Plot visualization using Plotly.js.
- Visualization of histograms.
- Parsing of log data from chainer's LogReport
- Log file watching using watchdog.
- Real time updating using ajax (via angularJS).
- Documentation using Sphinx.

CHAPTER 3

Indices and tables

- genindex
- modindex
- search