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# **chainerboard Documentation**

***Release 0.1.4***

**Yuta Koreeda**

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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

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## Development

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To setup development environment:

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

For testing,

```
tox
```

Build document

```
python setup.py build_sphinx
```





### v0.1.4

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

### v0.1.3

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

### v0.1.2

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

### v0.1.1

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

## 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

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### Indices and tables

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- `genindex`
- `modindex`
- `search`