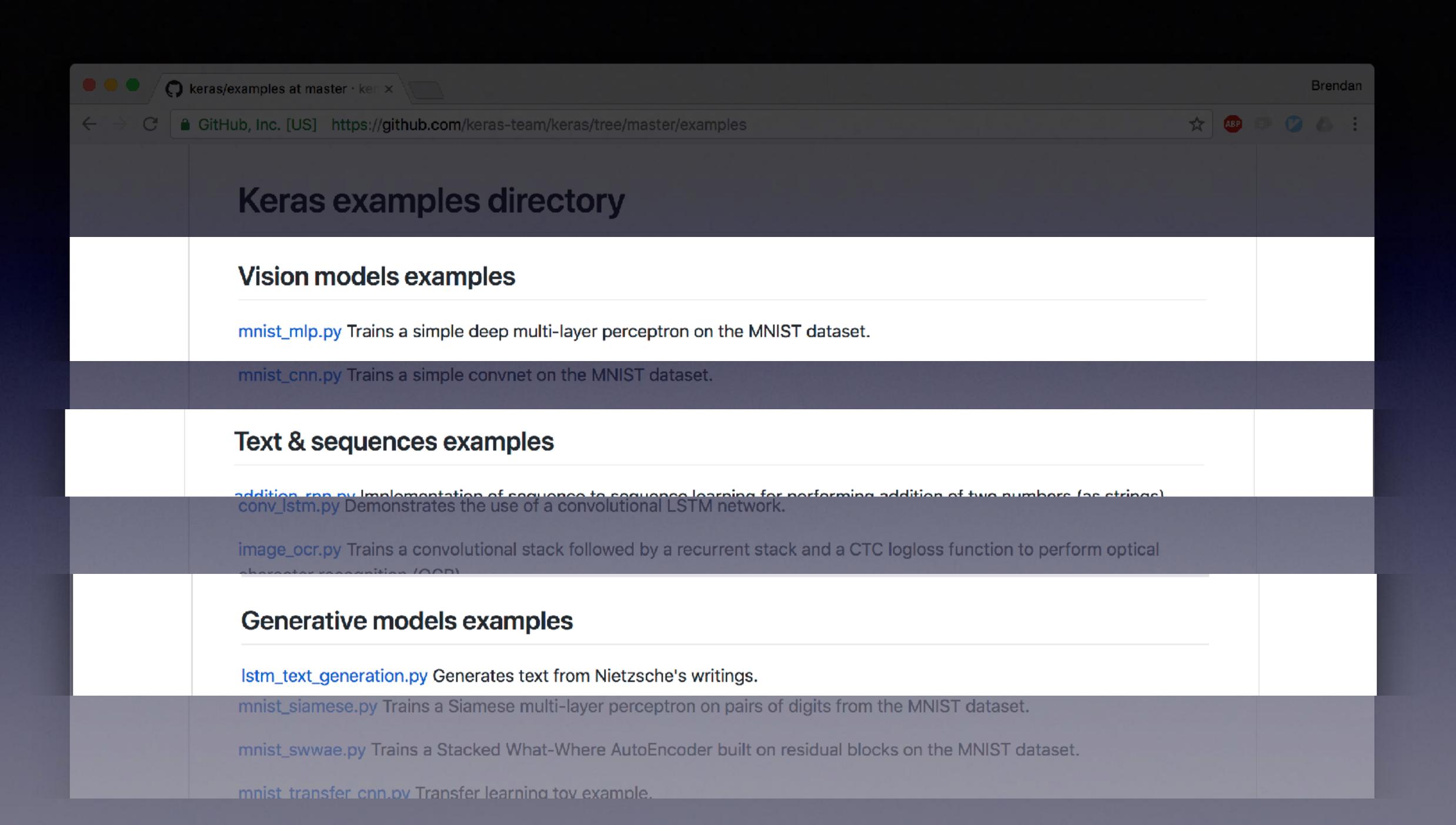
# keras-pandas

Brendan Herger, <u>hergertarian.com</u> <u>http://keras-pandas.readthedocs.io/</u>
Slides: <u>goo.gl/rZp6wQ</u>



Intro
Hands On
Getting Started

#### Intro

DL is attainable. keras-pandas allows users to rapidly build and iterate on deep learning models.

- New users: Lowering the barrier to entry, good starting point.
- Existing users: Allows for rapid iteration, good starting point

## Hands On

## Old Way

- **Highly customizable:** Data transformations, data format, input layers
- Heuristic driven: Involves high amount of domain expertise, neural network theory, and heuristics
- Repetitive: Time consuming & repetitive to create similarly formatted layers

## keras-pandas way

- Less customizable: Batteries included defaults for each data type
- Rapid: Ability to build and iterate on models with a few function class
- Maintainable: More consistent code base, with less redundancy

## Getting started

- Example: Try the titanic example in README.md
- Docs: Near total coverage, dive deeper than this talk
- Get involved: Actively looking for collaborators & feedback

## Next steps

- Time series: Smart defaults for time series models
- Iterate: Hear and respond to user feedback
- Examples: Find interesting data sets w/ mixed data types

#### Getting started

#### **Quick Start**

Let's build a model with the [titanic data set](https://www.kaggle.com/c/titanic/data. This data set is particularly fun because this data set contains a mix of categorical and numerical data types, and features a lot of null values.

We'll keras-pandas

pip install -U keras-pandas

And then run the following snippet to create and train a model:

from keras import Model
from keras.layers import Dense

#### Thanks!

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# Appendix

#### Lessons learned

- Thank your loved ones
- Find a few good examples you'd like to borrow (steal) from
- Stack
- Documentation: MD (docs) & RST (docstrings)
  - Documentation website: Sphinx (with m2r plugin for markdown)
  - Documentation serving: readthedocs.io
  - CI/CD: Travis for CI/CD