

# Welcome to PyData.Okinawa

## Meetup 19 - Interactive Visualization

2016/11/19 (SAT) 9:00-12:00 @ [Startup Cafe Koza](#)

- Twitter: @PyDataOkinawa (#PyDataOkinawa)
- Meetup: <https://www.meetup.com/PyData-Okinawa/>
- Connpass: <http://pydataokinawa.connpass.com/>
- HP: <http://pydata.okinawa>
- Slack: <https://pydataokinawa.slack.com>

Time		Speaker
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# Schedule

Time		Speaker
8:55	Opening	
9:00-9:20	Introduction to PyData.Okinawa	Organizer
9:20-9:30	Self-introduction	Everybody
9:30-10:15	Interactive visualization with ipywidgets	Everybody
10:15-10:30	Break	
10:30-11:30	Interactive visualization with Plotly	Everybody
11:30-11:50	Lightening Talks	Volunteers
11:50-12:00	Closing	Everybody

# What is PyData.Okinawa?



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[https://www.happytellus.com/gallery.php?img\\_id=2668](https://www.happytellus.com/gallery.php?img_id=2668)

# What is PyData.Okinawa?



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<http://free-photo.net/archive/entry5175.html>

# What is PyData.Okinawa?

- PyData.Okinawa is a community for people who are interested in python, data analytics, and/or machine learning.
- We use python 2.7 as a main language, but you can of course pick your favorite langauge that suits your needs.
- We use English as a "recommended language" after 18th meetup, so native English speaker living here or visiting Okinawa from other countries can join our meetup.

# Data Science Community

## PyData

- PyData in the World

## PythonBeginners 沖縄 (Japanese)

- Mokumoku-kai for Python beginners in Okinawa
- <http://python-beginners-okinawa.connpass.com/>
- Ask Suzuki-san for more information

## PythonBeginners沖縄・助け合い所 (Japanese)

- Facebook page

# Why PyData.Okinawa?

- Data science is developing in exponential rate.
- Difficult to follow the current trend by yourself even if you use the web.
- This is especially true if you live in Okinawa and try to catch up with this trend by yourself only using Japanese language.
- People can fill in these gaps.
- PyData.Okinawa is experimental.
- We continue as long as it is fun.

# **PyData.Okinawa News**

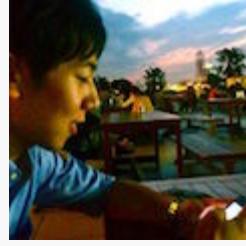
# English as a recommended language



- ① 地理的優位性  
主要都市へ4時間圏内
- ② 24時間運用体制の那覇空港  
高いダイヤ設定の自由度
- ③ 那覇空港上屋スペースの確保  
空港内に効率的な物流拠点の形成が可能
- ④ 公租公課の軽減措置  
国内線での優遇がある
- ⑤ 国内第2位のネットワーク  
羽田に次ぐ33拠点
- ⑥ 空港後背地の存在  
那覇自由貿易地域・那覇港の活用
- ⑦ 滑走路増設計画  
2,700mの滑走路が2019年完成予定
- ⑧ 豊富な人材  
高い外国語対応力、豊富な若年労働者

- Easier for English speaker to join our community
- English is an important tool in this fast growing world

# New organizers

M. Otsuka	 A portrait of a man with dark hair, looking slightly to the right. He is wearing a dark shirt.
Y. Tachibana (Sabo)	 A portrait of a young man with short dark hair, wearing a blue shirt, sitting at a table outdoors with a sunset in the background.
K. Tamashiro (Aipa)	 A portrait of a man wearing a traditional conical hat and a striped shirt, looking down.
T. Nakanishi	 A portrait of a man with glasses, singing into a microphone while playing a guitar on stage.

# New Venue



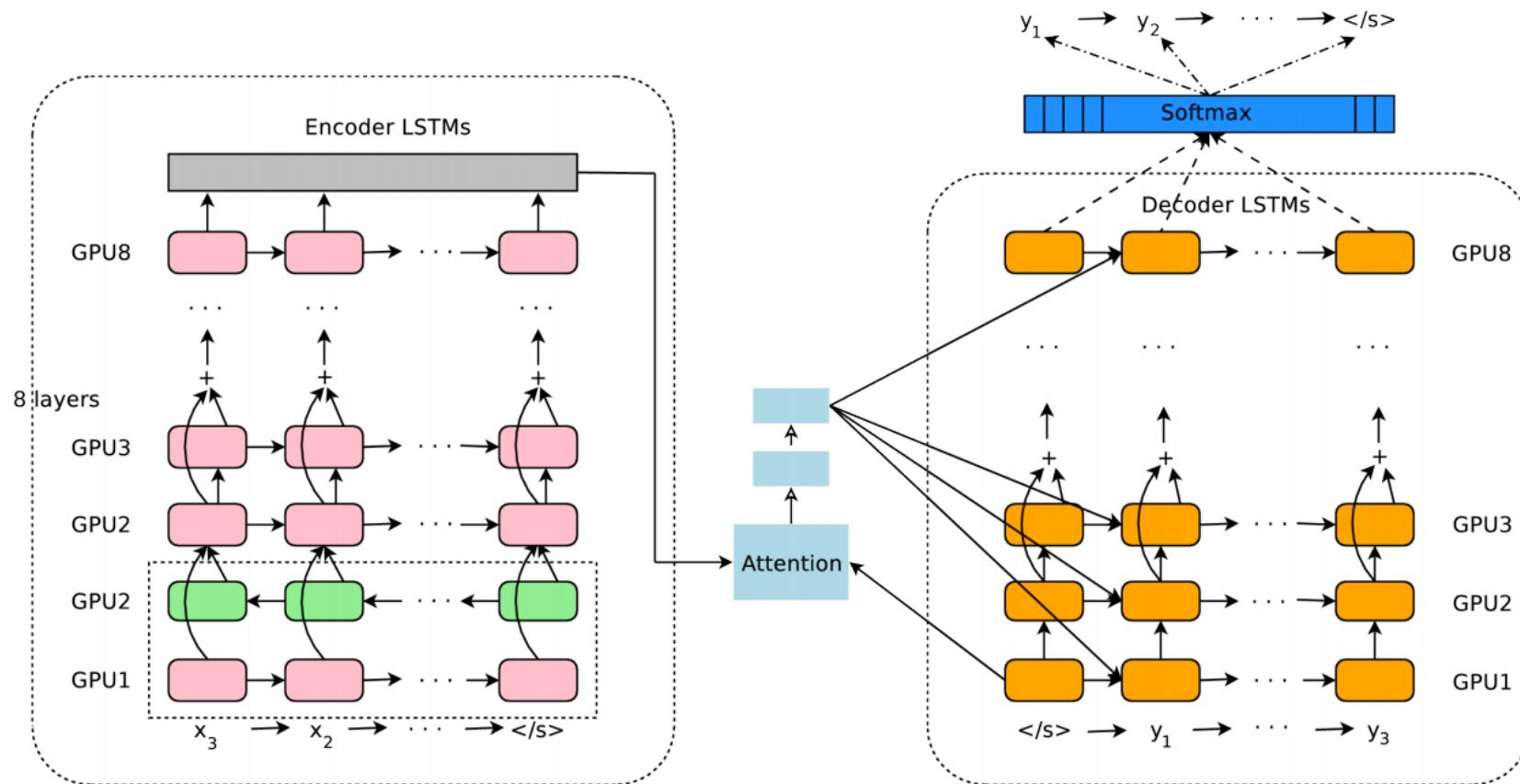
Startup Cafe Koza

# Google's Neural Machine Translation

2016/09/27 - [A Neural Network for Machine Translation, at Production Scale](#)

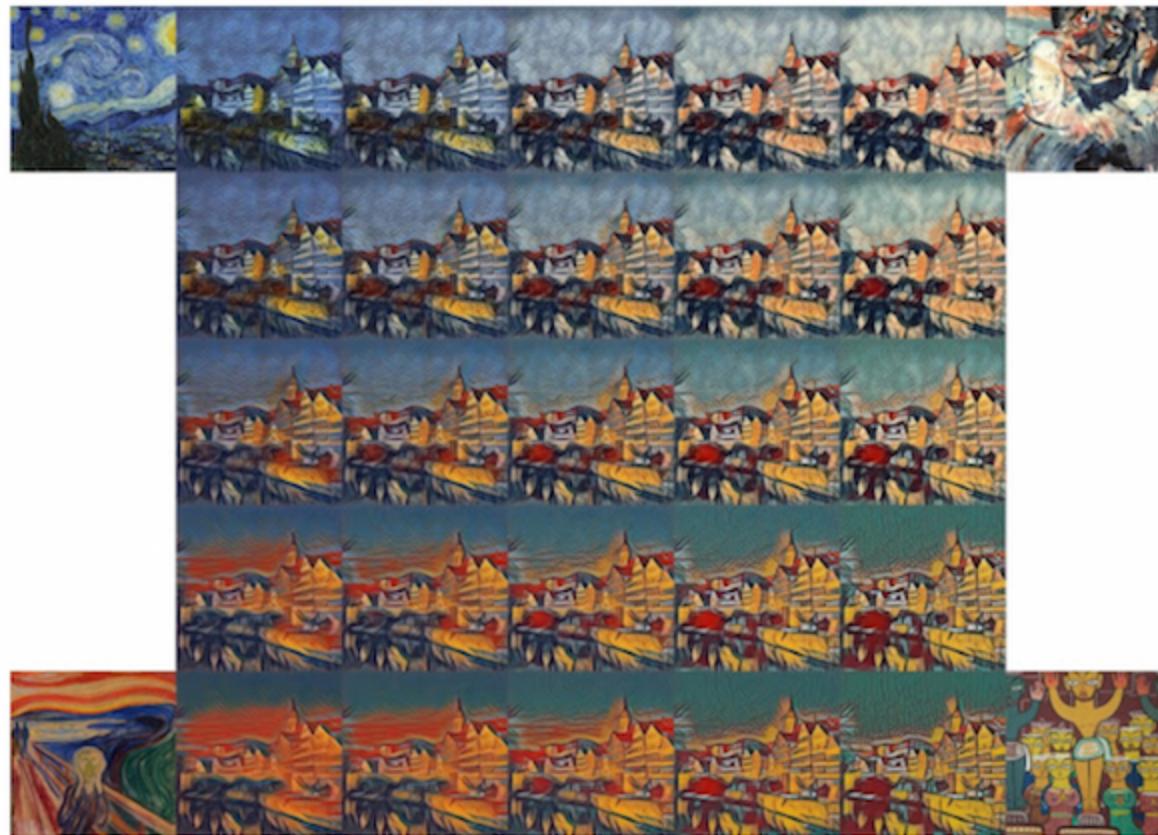
2016/11/12 - 待ってた！ついにGoogle翻訳がニューラルネット機械翻訳を日本語版にも適用。異常に上がった翻訳性能は感動モノ

2016/11/16 - Google 翻訳が進化しました。(Google Japan Blog)



# Supercharging Style Transfer

2016/10/26



<https://research.googleblog.com/2016/10/supercharging-style-transfer.html>

# LipNet

2016/11/09

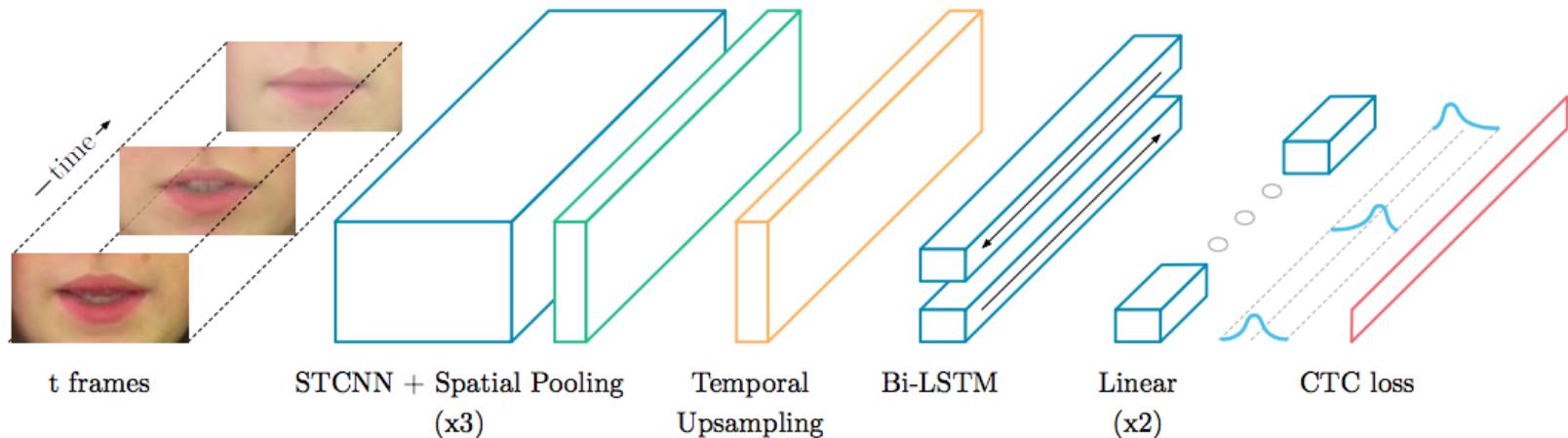
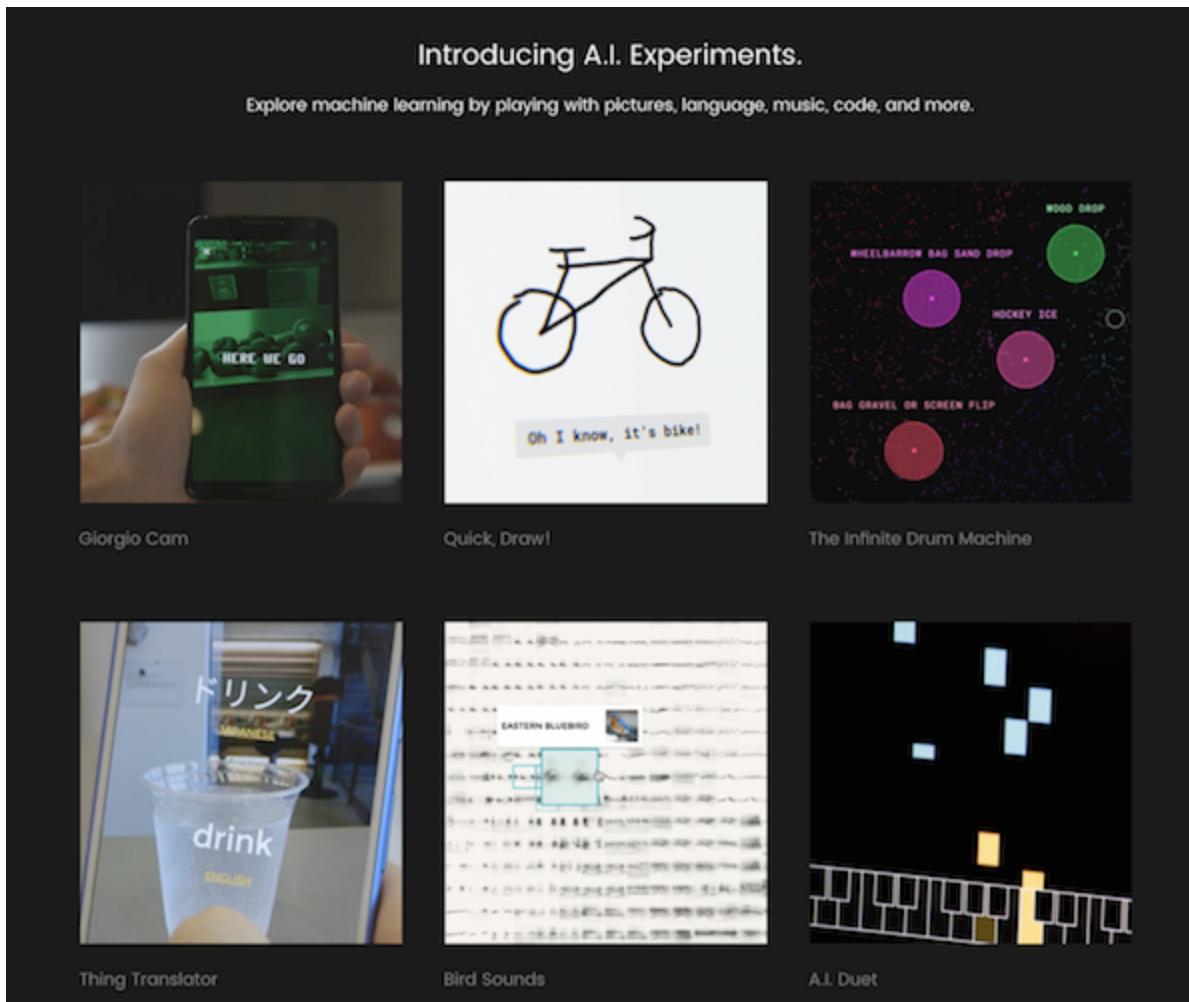


Figure 1: LipNet architecture. A sequence of  $T$  frames is used as input, and is processed by 3 layers of STCNN, each followed by a spatial max-pooling layer. The features extracted are temporally up-sampled and are processed by a Bi-LSTM; each timestep of the LSTM output is processed by a 2-layer feed-forward network and a softmax. This end-to-end model is trained with CTC.

<http://www.cs.ox.ac.uk/news/1217-full.html>

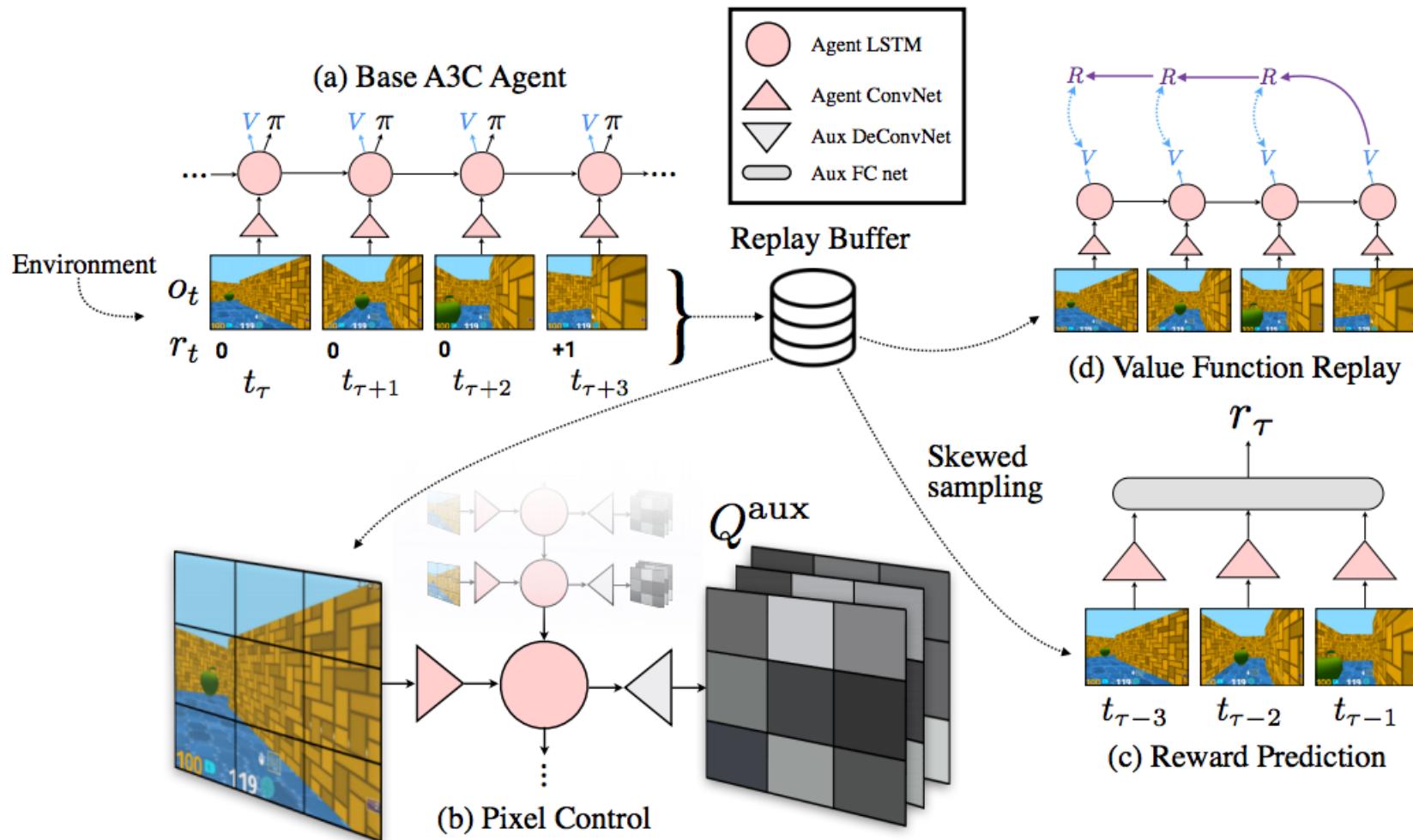
# Google's AI Experiments

- 2016/11/15 - [AI Experiments](#)
- 2016/11/15 - Google's AI Experiments help you understand neural networks by playing with them ([TechCrunch](#))



# Reinforcement learning with unsupervised auxiliary tasks

DeepMind's official blog post (2016/11/17)



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**Robotics**

# Apple Gets Its First Director of AI

Ruslan Salakhutdinov, a deep-learning expert at Carnegie Mellon, is exploring smart ways for computers to learn about the world.

by Will Knight   October 17, 2016

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**Russ Salakhutdinov**

@rsalakhu

 Follow

Excited about joining Apple as a director of AI research in addition to my work at CMU. Apply to work with my team [jobs.apple.com/us/search?pr=1...](https://jobs.apple.com/us/search?pr=1...)

12:40 AM · 18 Oct 2016 · Pittsburgh, PA, United States



365

921

# **PyData.Okinawa**

## **Date and Time**

- Every 3rd Saturday 9:00-12:00

## **Fee**

- 1500 yen
- Organizers also pay

## **Other**

- Happy coding ;)

# **Self-introduction**

- about 1 min per person

# Interactive Visualization

# PyData.Okinawaのこれまで (1/4)

- PyData.Okinawa Meetup #1 - PyData事始め
- PyData.Okinawa Meetup #2 - データ可視化
- PyData.Okinawa Meetup #3 - scikit-learn入門
- PyData.Okinawa Meetup #4 - モデル選択
- PyData.Okinawa Meetup #5 - 復習ミニハッカソン

# PyData.Okinawaのこれまで (2/4)

- PyData.Okinawa Meetup #6 - 「データサイエンティスト養成読本：機械学習入門編」読書会 1
  - 第1部 特集1 機械学習を使いたい人のための入門講座（よぎさん）
  - 第1部 特集2 機械学習の基礎知識（ひがさん）
- PyData.Okinawa Meetup #7 - 「データサイエンティスト養成読本：機械学習入門編」読書会 2
  - 第1部 特集2 機械学習の基礎知識（古川さん）
  - 第2部 特集2 Pythonによる機械学習入門（岩村さん）
- PyData.Okinawa Meetup #8 - 「データサイエンティスト養成読本：機械学習入門編」読書会 3
  - 第2部 特集2 Pythonによる機械学習入門（岩村さん）
  - 第1部 特集3 ビジネスに導入する機械学習（玉城さん）

# PyData.Okinawaのこれまで (3/4)

- PyData.Okinawa Meetup #9 - 「データサイエンティスト養成読本：機械学習入門編」 読書会 4
  - 第1部 特集4 深層学習最前線 (大塚さん)
- PyData.Okinawa Meetup #10 - 「データサイエンティスト養成読本：機械学習入門編」 読書会 5
  - 第2部 特集4 Pythonで画像認識にチャレンジ (ちんさん)
- PyData.Okinawa Meetup #11 - 「データサイエンティスト養成読本：機械学習入門編」 読書会 6
  - 第2部 特集3 推薦システム入門 (玉城さん)
- PyData.Okinawa Meetup #12 - 寄り合い

## PyData.Okinawaのこれまで (4/4)

- PyData.Okinawa Meetup #13 - kaggle - Kobe Bryant Shot Selection
- PyData.Okinawa Meetup #14 - kaggle - Shelter Animal Outcomes (Part 1)
- PyData.Okinawa Meetup #15 - kaggle - Shelter Animal Outcomes (Part 2)
- PyData.Okinawa Meetup #16 - kerasで深層学習
- PyData.Okinawa Meetup #17 - Magentaで音楽生成
- PyData.Okinawa Meetup #18 - Pandasでデータ前処理