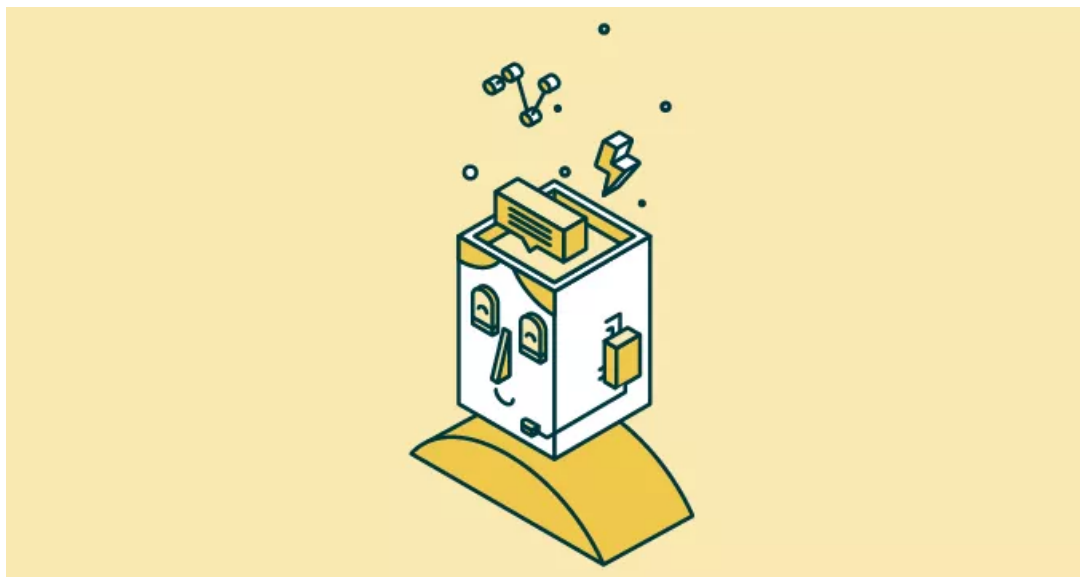


过去一年最牛逼的30个机器学习项目！等你来mark！

机器学习算法与自然语言处理 Yesterday



大数据文摘出品

编译：刘思佳、张秋玥、云舟

这是一个竞争极为激烈的列表！

因为这是从**2017年1月至12月**期间发布的最佳开源机器学习库、数据集和应用程序里精心挑选出来的。挑选的基数高达**8800**个。

这是一个评价严谨的列表！

为了更好地评价这些项目，使用**Mybridge AI**，并且综合考虑受欢迎程度、参与度和新颖度。

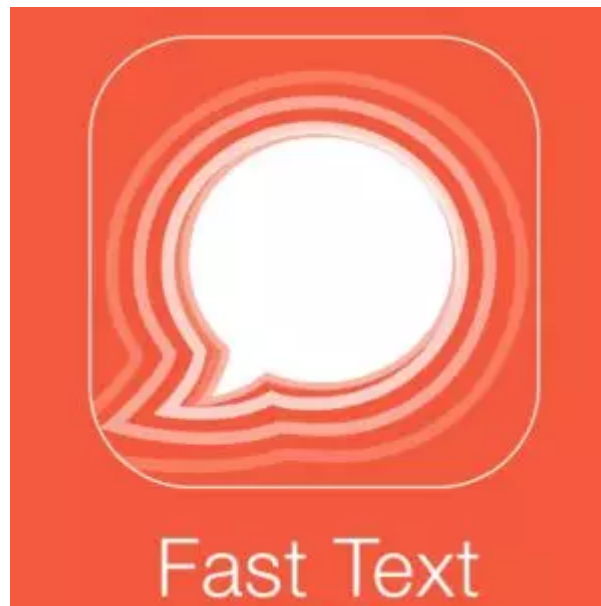
那么，开始吧！让我们一起看看这份列表~~~

注：此份列表的星星数量仅供参考，因为，**github**上的星星数量是动态变化的。

No 1 FastText

用于快速文本表示和分类的库。 [**Github**评价：**11786**颗星]。

<https://goo.gl/VWGfCs>



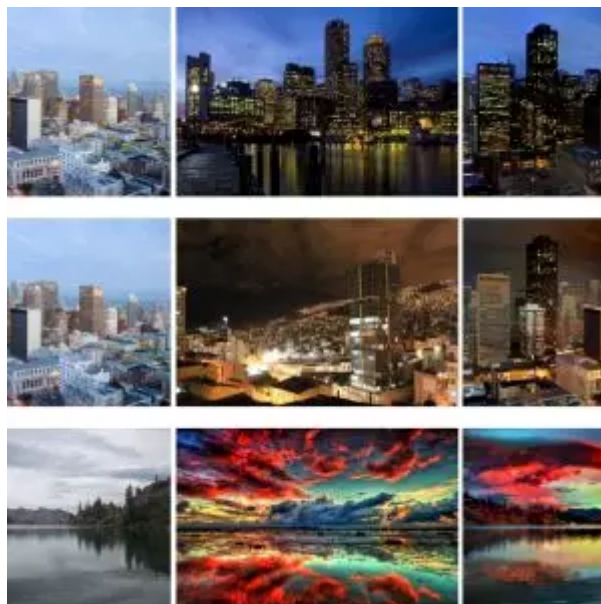
来自Facebook Research

注：基于FastText 的一款名为 Muse 的多语种无监督或有监督的词嵌入项目在github上获得星星数为695.

No 2 Deep-photo-styletransfer

论文“深度照片风格转换”的代码与数据[Github评价：9747颗星]。

链接： https://github.com/luanfujun/deep-photo-styletransfer?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more



来自Fujun Luan博士，康奈尔大学

No 3

全世界最简单的面部识别API，基于Python与命令行 [Github评价：8672颗星]。

[https://github.com/ageitgey/face_recognition?](https://github.com/ageitgey/face_recognition?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)
[utm_source=mybridge&utm_medium=blog&utm_campaign=read_more](https://github.com/ageitgey/face_recognition?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)



Input

来自Adam Geitgey

No 4 Magenta

通过机器智能生成的音乐和艺术 [Github评价：8113颗星]。

[https://github.com/tensorflow/magenta?](https://github.com/tensorflow/magenta?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)
[utm_source=mybridge&utm_medium=blog&utm_campaign=read_more](https://github.com/tensorflow/magenta?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)



No 5 Sonnet

基于TensorFlow的神经网络库 [Github评价：5731颗星]。

[https://github.com/deepmind/sonnet?](https://github.com/deepmind/sonnet?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)
[utm_source=mybridge&utm_medium=blog&utm_campaign=read_more](https://github.com/deepmind/sonnet?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)



来自Malcolm Reynolds, Deepmind

No 6 deeplearn.js

用于网络的硬件加速机器智能库 [Github评价：5462颗星]。

[https://github.com/PAIR-code/deeplearnjs?](https://github.com/PAIR-code/deeplearnjs?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)

[utm_source=mybridge&utm_medium=blog&utm_campaign=read_more](https://github.com/PAIR-code/deeplearnjs?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)



来自Nikhil Thorat, Google Brain

No 7

基于TensorFlow的快速风格转移 [Github评价：4843颗星]

[https://github.com/lengstrom/fast-style-transfer?](https://github.com/lengstrom/fast-style-transfer?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)

[utm_source=mybridge&utm_medium=blog&utm_campaign=read_more](https://github.com/lengstrom/fast-style-transfer?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)



来自Logan Engstrom, MIT

No 8 Pysc2

星际争霸II学习环境 [Github评价：3683颗星]。

[https://github.com/deepmind/pysc2?
utm_source=mybridge&utm_medium=blog&utm_campaign=read_more](https://github.com/deepmind/pysc2?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)



来自Timo Ewalds, Deepmind

No 9 AirSim

基于虚幻引擎的开源模拟器，适用于Microsoft AI和Research的自动驾驶交通工具 [Github评价：3861颗星]。

[https://github.com/Microsoft/AirSim?](https://github.com/Microsoft/AirSim?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)

[utm_source=mybridge&utm_medium=blog&utm_campaign=read_more](https://github.com/Microsoft/AirSim?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)



来自Shital Shah, Microsoft

No 10 Facets

机器学习数据集的可视化 [Github评价：3371颗星]。

[https://github.com/PAIR-code/facets?](https://github.com/PAIR-code/facets?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)

[utm_source=mybridge&utm_medium=blog&utm_campaign=read_more](https://github.com/PAIR-code/facets?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)

P+AIR
CODE

来自Google Brain

No 11 Style2Paints

AI图像着色 [Github评价：3310颗星]。

[https://github.com/llyasviel/style2paints?
utm_source=mybridge&utm_medium=blog&utm_campaign=read_more](https://github.com/llyasviel/style2paints?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)



No 12 Tensor2Tensor

广义序列模型及序列模型的库 [Github评价：3087颗星]。

[https://github.com/tensorflow/tensor2tensor?
utm_source=mybridge&utm_medium=blog&utm_campaign=read_more](https://github.com/tensorflow/tensor2tensor?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)



来自Ryan Sepassi, 谷歌大脑

No 13**PyTorch**图像转换（例如horse2zebra, edges2cats等）[Github评价：2847颗星]。

[https://github.com/junyanz/pytorch-CycleGAN-and-pix2pix?](https://github.com/junyanz/pytorch-CycleGAN-and-pix2pix?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)
[utm_source=mybridge&utm_medium=blog&utm_campaign=read_more](https://github.com/junyanz/pytorch-CycleGAN-and-pix2pix?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)



来自Jun-Yan Zhu博士，加州大学伯克利分校。

No 14 Faiss

用于高效相似性搜索和密集向量聚类的库 [Github评价：2629颗星]。

[https://github.com/facebookresearch/faiss?](https://github.com/facebookresearch/faiss?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)
[utm_source=mybridge&utm_medium=blog&utm_campaign=read_more](https://github.com/facebookresearch/faiss?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)



来自Facebook Research

No 15 Fashion-mnist

一个类似MNIST的时尚产品数据库[Github评价：2780颗星]。

[https://github.com/zalandoresearch/fashion-mnist?
utm_source=mybridge&utm_medium=blog&utm_campaign=read_more](https://github.com/zalandoresearch/fashion-mnist?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)



来自Han Xiao, Zalando Tech科研学者

No 16 ParlAI

在各种公开可用的对话数据集上训练并评估AI模型的框架 [Github评价：2578颗星]。

[https://github.com/facebookresearch/ParlAI?
utm_source=mybridge&utm_medium=blog&utm_campaign=read_more](https://github.com/facebookresearch/ParlAI?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)

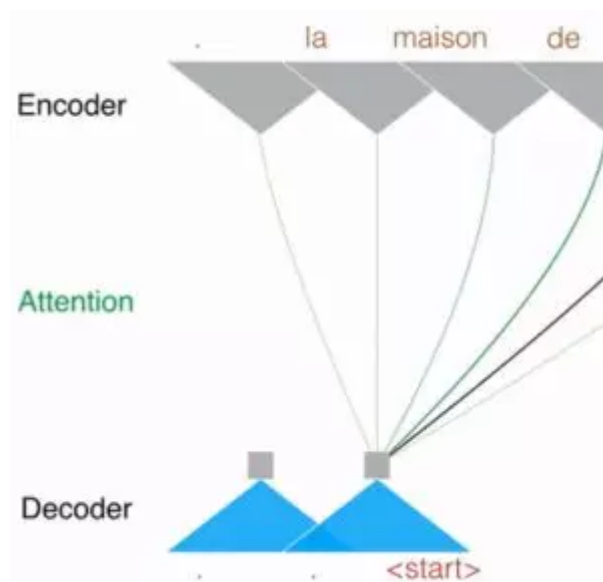


来自Alexander Miller, Google Research

No 17 Fairseq

序列到序列工具包 [Github评价：2571颗星]。

[https://github.com/facebookresearch/fairseq?](https://github.com/facebookresearch/fairseq?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)
[utm_source=mybridge&utm_medium=blog&utm_campaign=read_more](https://github.com/facebookresearch/fairseq?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)



来自Facebook AI Research

No 18 Pyro

使用Python和PyTorch进行深度通用概率编程 [Github评价：2387颗星]。

https://github.com/uber/pyro?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more

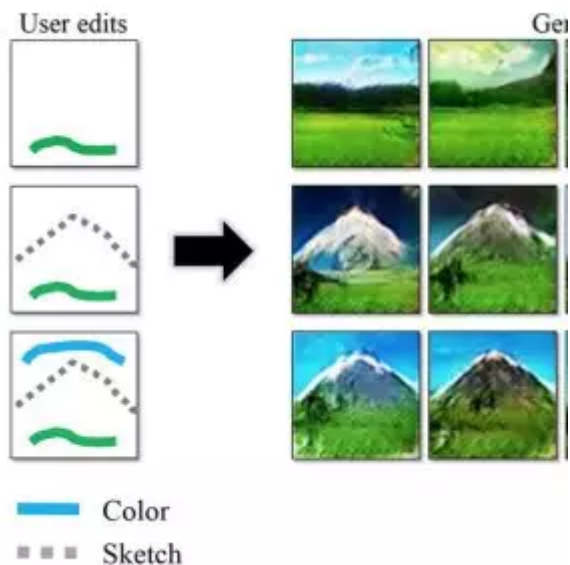


来自Uber AI Labs

No 19 iGAN

基于GAN的交互式图像生成 [Github评价：2369颗星]。

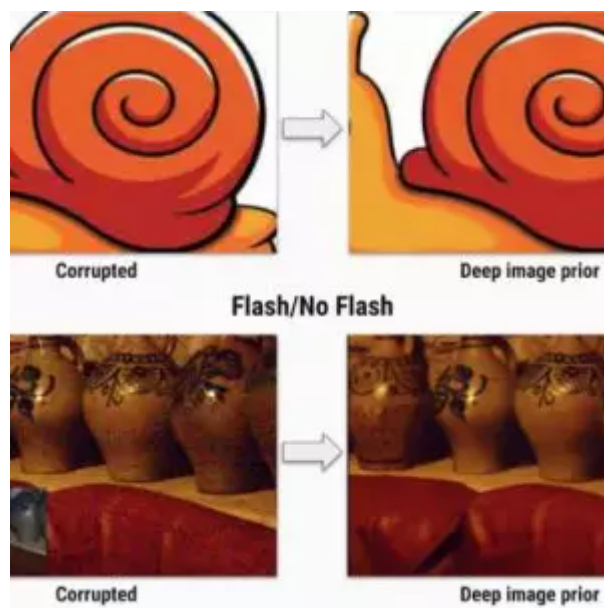
https://github.com/junyanz/iGAN?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more



No 20 Deep-image-prior

不基于学习的神经网络图像恢复 [Github评价：2188颗星]。

https://github.com/DmitryUlyanov/deep-image-prior?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more

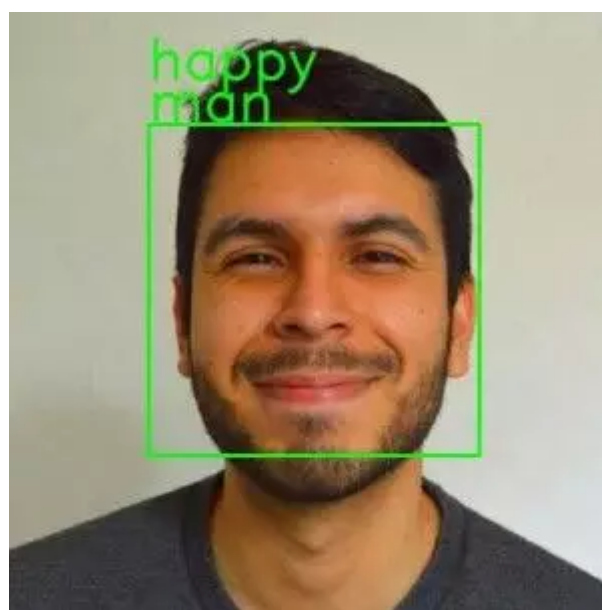


来自Dmitry Ulyanov博士，Skoltech

No 21 Face_classification

基于keras CNN模型和openCV、使用fer2013 / imdb数据集进行实时人脸检测和情感/性别分类。 [Github评价：1967颗星]。

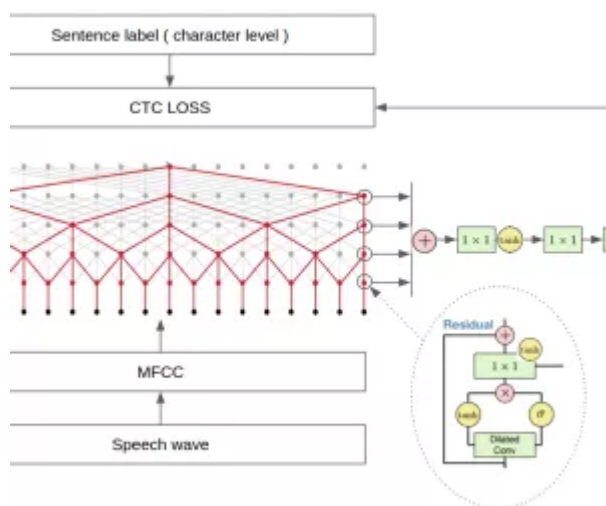
[https://github.com/oarriaga/face_classification?](https://github.com/oarriaga/face_classification?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)
[utm_source=mybridge&utm_medium=blog&utm_campaign=read_more](https://github.com/oarriaga/face_classification?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)



No 22 Speech-to-Text-WaveNet

使用DeepMind的WaveNet和tensorflow的端到端句子级英语语音识别 [Github评价：1961颗星]。来自Namju Kim, Kakao Brain。

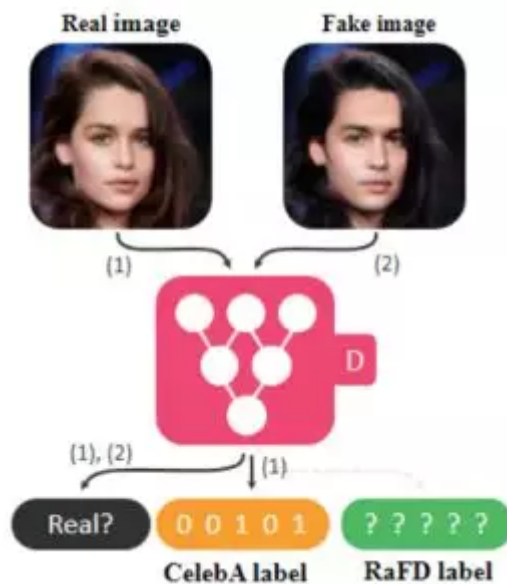
https://github.com/buriburisuri/speech-to-text-wavenet?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more



No 23 StarGAN

用于多域图像转换的统一生成式对抗网络 [Github评价：1954颗星]。

https://github.com/yunjey/StarGAN?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more



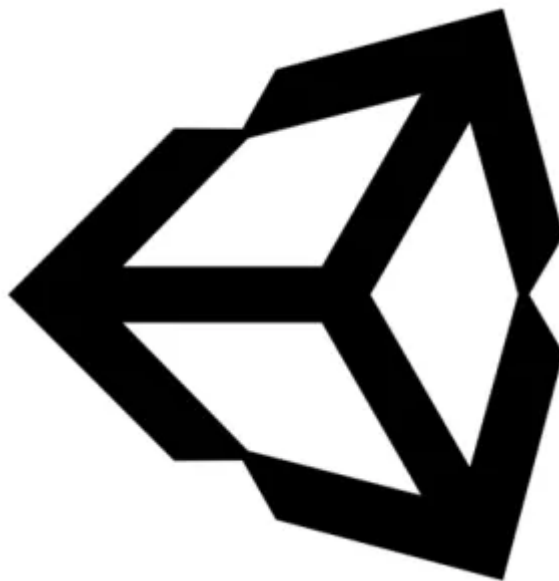
来自Yunjey Choi, Korea University

No 24 Ml-agents

Unity机器学习代理 [Github评价：1658颗星]。

[https://github.com/Unity-Technologies/ml-agents?](https://github.com/Unity-Technologies/ml-agents?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)

[utm_source=mybridge&utm_medium=blog&utm_campaign=read_more](https://github.com/Unity-Technologies/ml-agents?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)



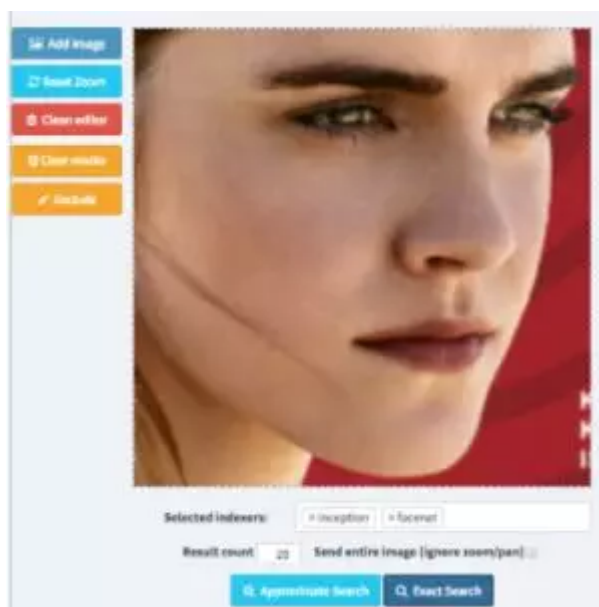
来自Arthur Juliani, Unity3D Deep Learning

No 25

DeepVideoAnalytics：分布式视觉搜索和可视化数据分析平台 [Github评价：1494颗星]。

<https://github.com/AKSHAYUBHAT/DeepVideoAnalytics/>

utm_source=mybridge&utm_medium=blog&utm_campaign=read_more

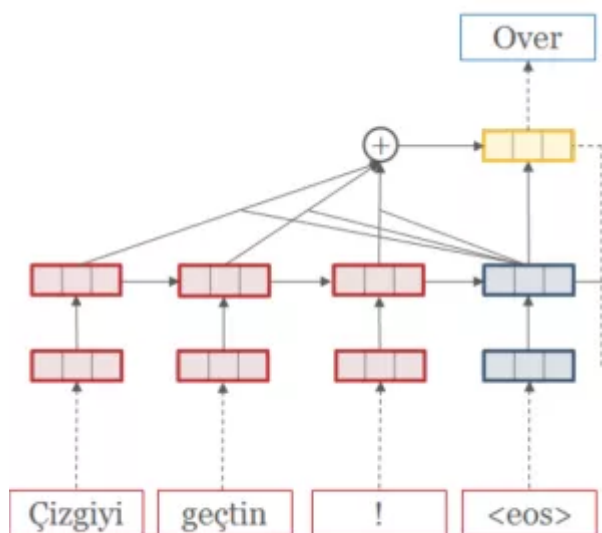


No 26 OpenNMT

基于Torch的开源神经机器翻译 [Github评价：1490颗星]。

<https://github.com/OpenNMT/OpenNMT?>

utm_source=mybridge&utm_medium=blog&utm_campaign=read_more



No 27 Pix2pixHD

使用条件GAN合成并处理2048x1024图像 [Github评价：1283颗星]。

[https://github.com/NVIDIA/pix2pixHD?](https://github.com/NVIDIA/pix2pixHD?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)

[utm_source=mybridge&utm_medium=blog&utm_campaign=read_more](https://github.com/NVIDIA/pix2pixHD?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)



来自AI研究科学家Ming-Yu Liu, Nvidia

No 28 Horovod

TensorFlow的分布式培训框架 [Github评价：1188颗星]。

https://github.com/uber/horovod?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more



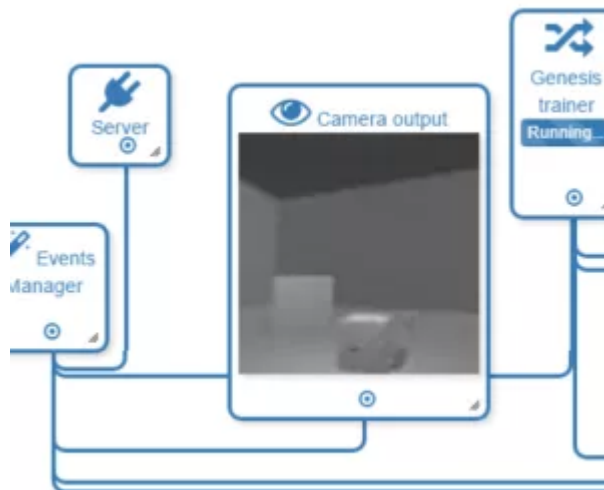
来自Uber Engineering

No 29 AI-Block

一个功能强大且直观的WYSIWYG界面，允许任何人创建机器学习模型 [Github评价：899颗星]。

[https://github.com/MrNothing/AI-Blocks?](https://github.com/MrNothing/AI-Blocks?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)

[utm_source=mybridge&utm_medium=blog&utm_campaign=read_more](https://github.com/MrNothing/AI-Blocks?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)



No 30

基于Tensorflow的语音转换（语音样式传输）深度神经网络 [Github评价：845颗星]。

[https://github.com/andabi/deep-voice-conversion?](https://github.com/andabi/deep-voice-conversion?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)

[utm_source=mybridge&utm_medium=blog&utm_campaign=read_more](https://github.com/andabi/deep-voice-conversion?utm_source=mybridge&utm_medium=blog&utm_campaign=read_more)



来自Dabi Ahn, Kakao Brain AI Research

另外，推荐两个非常好的学习材料：

- 年度Python项目（平均3,707颗星）
<https://goo.gl/sqdPgW>
- 过去一年关于学习机器学习的热门文章
<https://goo.gl/GLdu6r>

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[nsukey=meOrGP1tkmxojNUefLXxHh8132657wun6l2jRHUzia47eJTA4ZzuKLbqBsZ7LHBz0AG3kWld3ue-XHaJ4jj42lITtmXt1M6VDyqPXpxPAileWUOaECy6GoBNYJp4z%2FYgE%2BW%2BQGzke6038nQh4n-HBUyHMs1RcK61It9QRuZg7LzYcn6vw%2F5VCwXSPFBjIC5M7miumCHCENttD5%2BmsdZAYROw%3D%3D](https://medium.mybridge.co/30-amazing-machine-learning-projects-for-the-past-year-v-2018-b853b8621ac7?nsukey=meOrGP1tkmxojNUefLXxHh8132657wun6l2jRHUzia47eJTA4ZzuKLbqBsZ7LHBz0AG3kWld3ue-XHaJ4jj42lITtmXt1M6VDyqPXpxPAileWUOaECy6GoBNYJp4z%2FYgE%2BW%2BQGzke6038nQh4n-HBUyHMs1RcK61It9QRuZg7LzYcn6vw%2F5VCwXSPFBjIC5M7miumCHCENttD5%2BmsdZAYROw%3D%3D)

END

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漫话：如何给女朋友解释为什么双11无法修改收货地址

2019 AI 国际顶级学术会议全在这里，请查收！



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