Welcome to the Model Garden for TensorFlow

The TensorFlow Model Garden is a repository with a number of different implementations of state-of-the-art (SOTA) models and modeling solutions for TensorFlow users. We aim to demonstrate the best practices for modeling so that TensorFlow users can take full advantage of TensorFlow for their research and product development.

To improve the transparency and reproducibility of our models, training logs on TensorBoard.dev are also provided for models to the extent possible though not all models are suitable.

Directory	Description
official	• A collection of example implementations for SOTA models using the latest TensorFlow 2's high-level APIs • Officially maintained, supported, and kept up to date with the latest TensorFlow 2 APIs by TensorFlow • Reasonably optimized for fast performance while still being easy to read
research	• A collection of research model implementations in TensorFlow 1 or 2 by researchers • Maintained and supported by researchers
community	• A curated list of the GitHub repositories with machine learning models and implementations powered by TensorFlow 2
orbit	• A flexible and lightweight library that users can easily use or fork when writing customized training loop code in TensorFlow 2.x. It seamlessly integrates with `tf.distribute` and supports running on different device types (CPU, GPU, and TPU).

Installation

To install the current release of tensorflow-models, please follow any one of the methods described below.

Method 1: Install the TensorFlow Model Garden pip package

▶ Details

Method 2: Clone the source

▶ Details

Announcements

Please check this page for recent announcements.

Contributions

`"help wanted:paper implementation" issues` `6 open`

If you want to contribute, please review the [contribution guidelines](#).

License

[Apache License 2.0](#)

Citing TensorFlow Model Garden

If you use TensorFlow Model Garden in your research, please cite this repository.

```
@misc{tensorflowmodelgarden2020,
  author = {Hongkun Yu, Chen Chen, Xianzhi Du, Yeqing Li, Abdullah Rashwan, Le Hou,
Pengchong Jin, Fan Yang,
            Frederick Liu, Jaeyoun Kim, and Jing Li},
  title = {{TensorFlow Model Garden}},
  howpublished = {\url{https://github.com/tensorflow/models}},
  year = {2020}
}
```