Tensorflow and Keras 安装

目录

一. Python 环境

anaconda

二. 集成 tensorflow

```
pip install --upgrade tensorflow
```

三. 集成 keras

```
pip install keras -U -pre
```

$HOME/.keras/keras.json

```
{
    "image_data_format": "channels_last",
    "epsilon": 1e-07,
    "floatx": "float32",
    "backend": "tensorflow"
    }
```

四. Ide 开发工具集成 Python

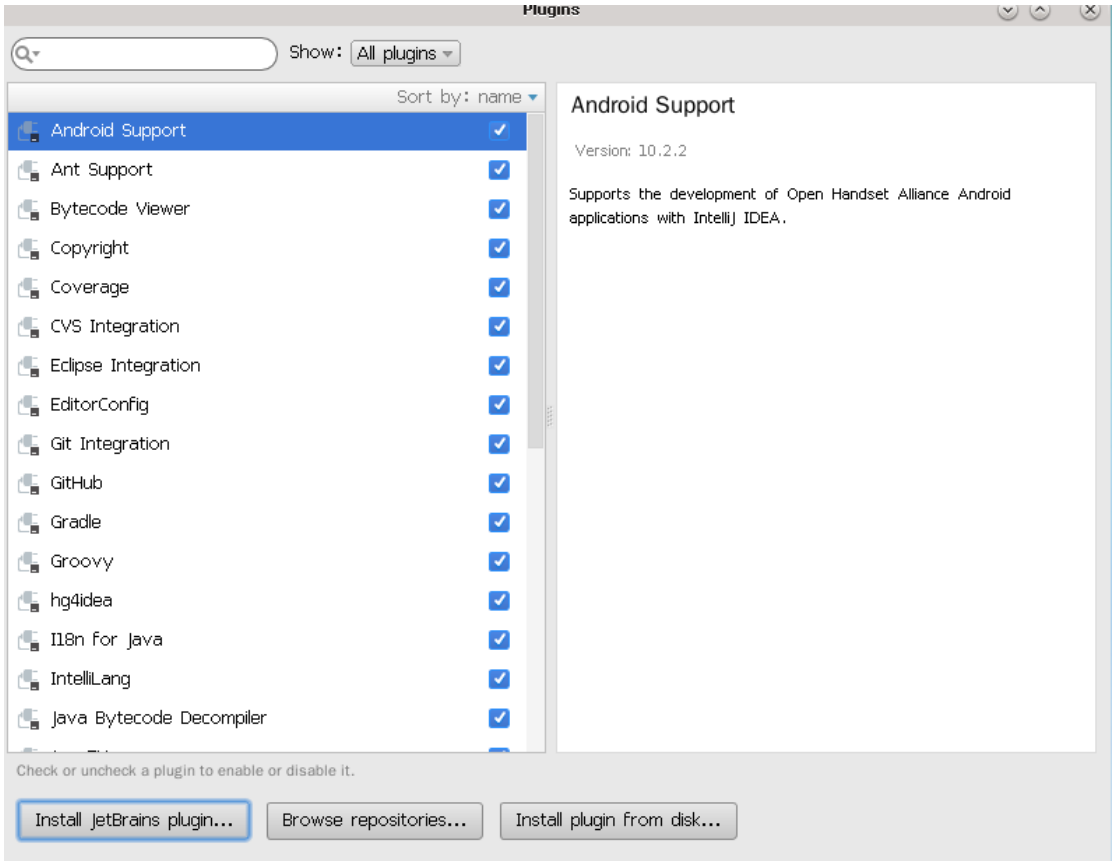
4.1 安装

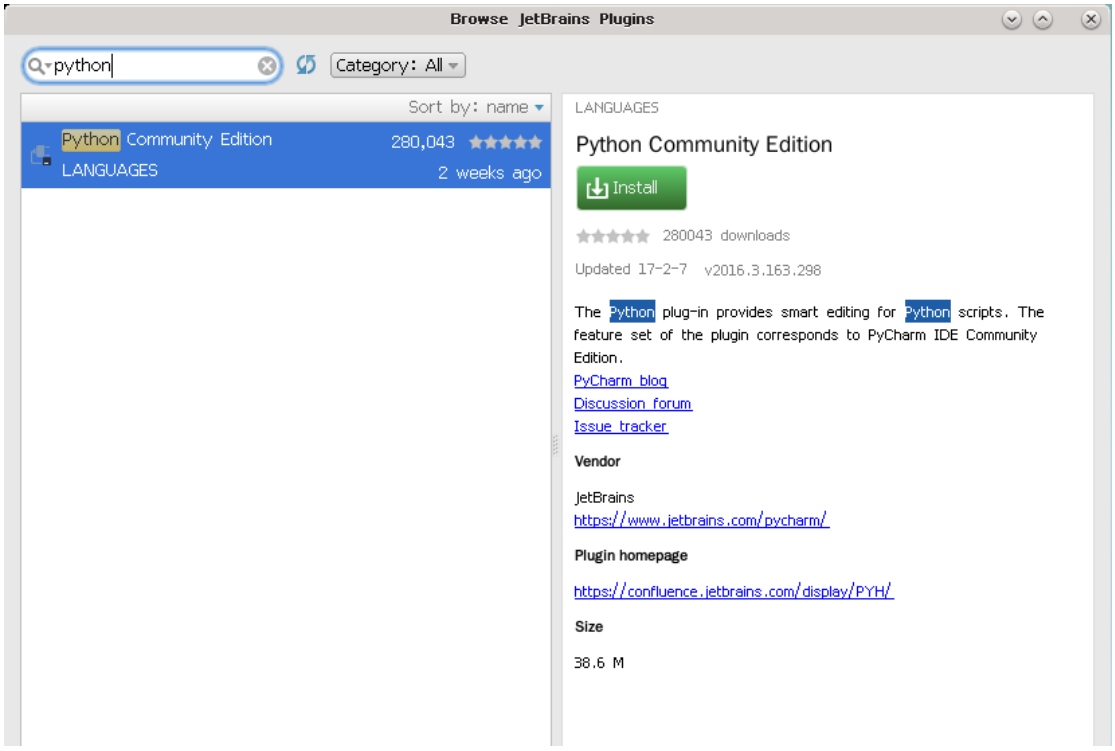
启动 IDE

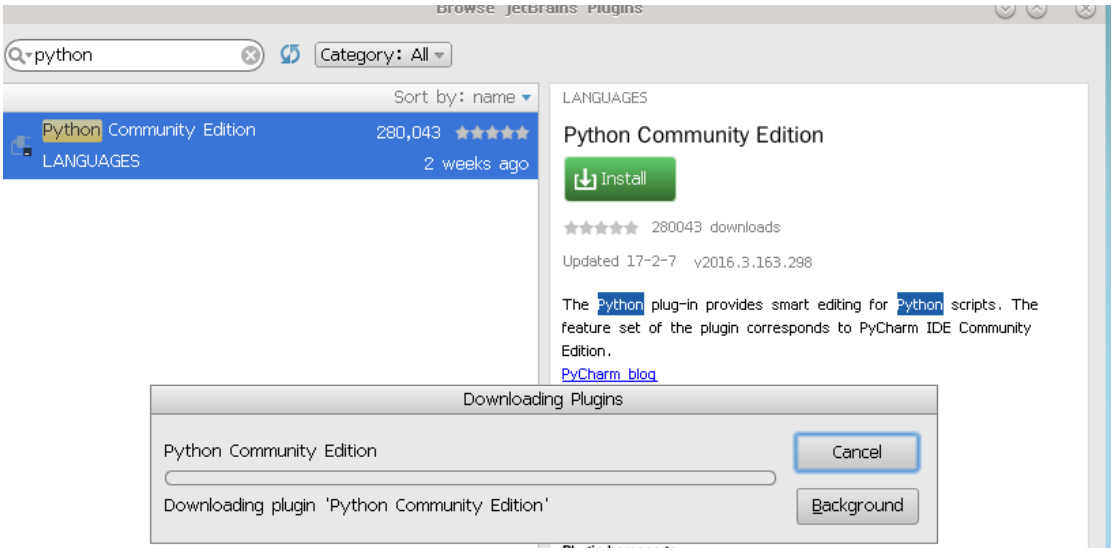
配置 IDE 集成环境 python

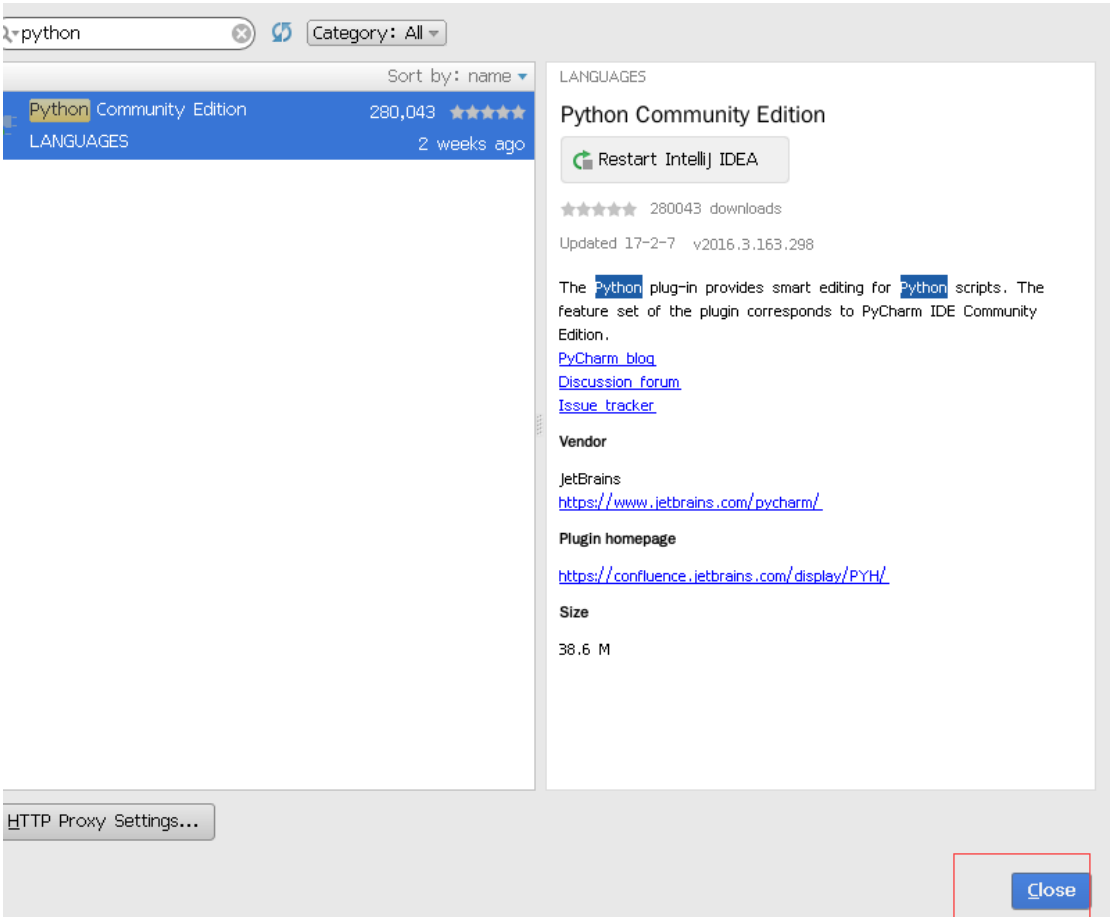
第一次启动后
点击[setting]-[installjetbrains plugin]
-**搜索** python-[install]-[close]-**重启** idea,之后再次启动不用做这一步配置，具体操作如下图所示：


IntelliJ IDEA
Version 2016.3.4
Create New Project
Import Project
Open
Check out from Version Control
Configure
Get Help
Settings
Plugins
Import Settings
Export Settings
Settings Repository...
Create Desktop Entry
Check for Update
Project Defaults


Plugins
Show: All plugins
Sort by: name
Android Support
Ant Support
Bytecode Viewer
Copyright
Coverage
CVS Integration
Eclipse Integration
EditorConfig
Git Integration
GitHub
Gradle
Groovy
hg4idea
I18n for Java
IntelliLang
Java Bytecode Decompiler
Android Support
Version: 10.2.2
Supports the development of Open Handset Alliance Android applications with IntelliJ IDEA.
Check or uncheck a plugin to enable or disable it.
Install JetBrains plugin...
Browse repositories...
Install plugin from disk...

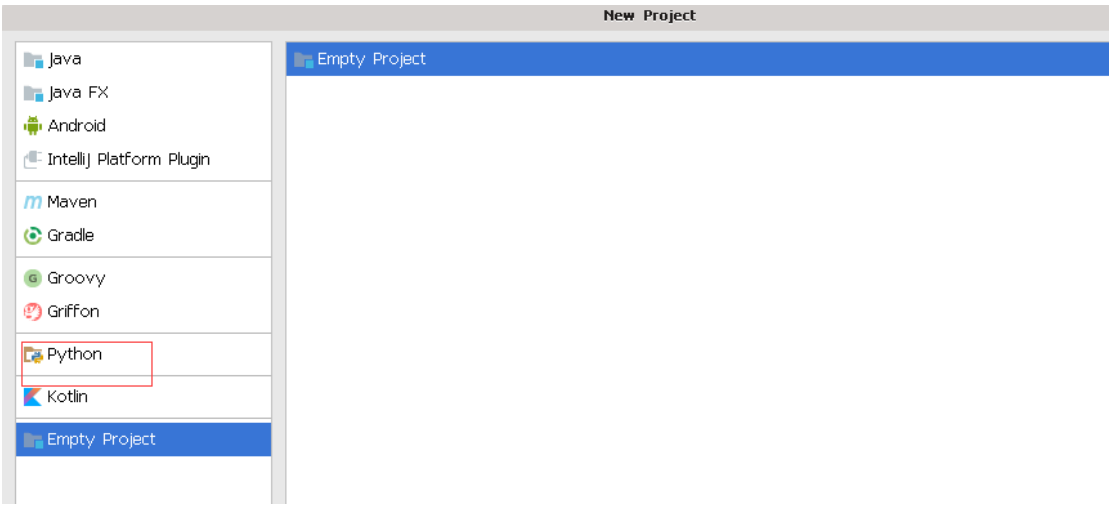

Browse JetBrains Plugins
python
Category: All
Sort by: name
Python Community Edition 280,043
LANGUAGES 2 weeks ago
LANGUAGES
Python Community Edition
Install
280043 downloads
Updated 17-2-7 v2016.3.163.298
The Python plug-in provides smart editing for Python scripts. The feature set of the plugin corresponds to PyCharm IDE Community Edition.
PyCharm blog
Discussion forum
Issue tracker
Vendor
JetBrains
https://www.jetbrains.com/pycharm/
Plugin homepage
https://confluence.jetbrains.com/display/PYH/
Size
38.6 M

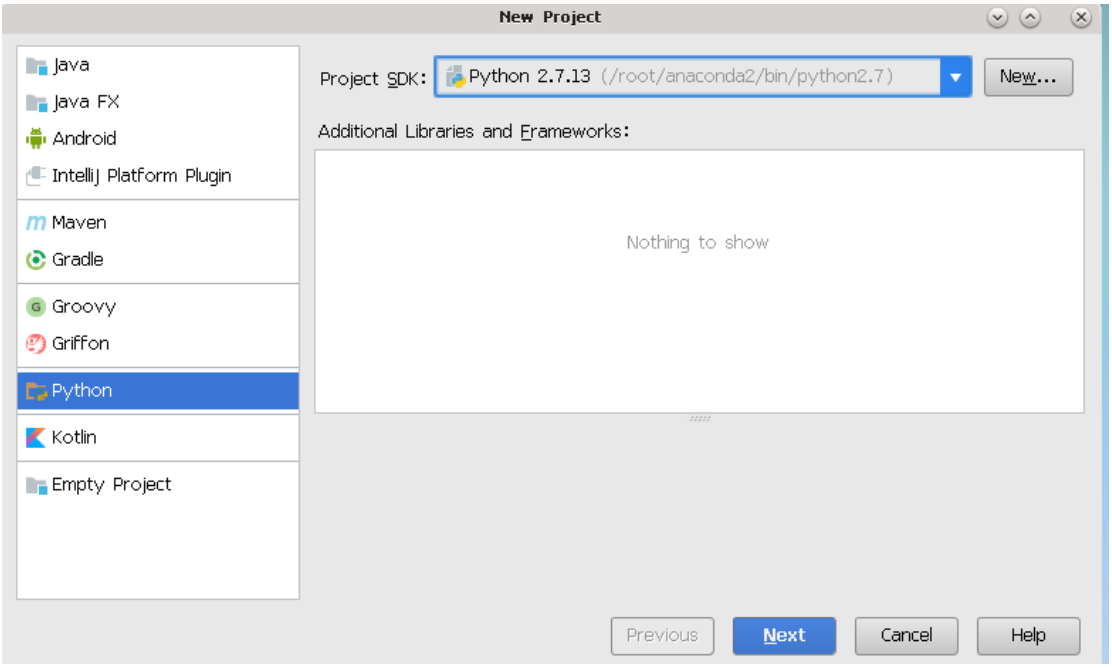


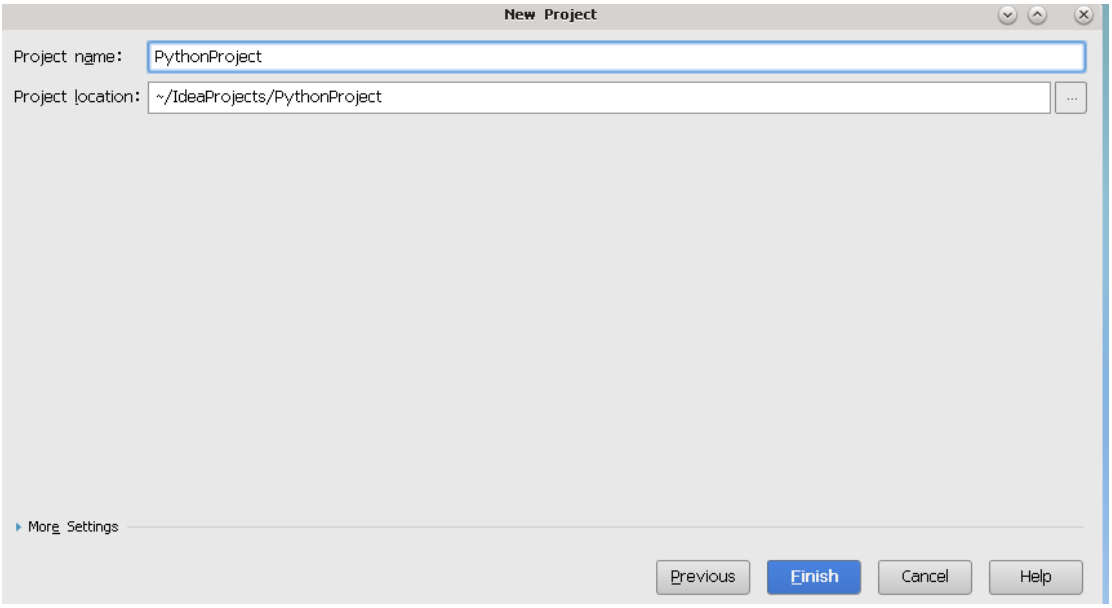


创建 python 新项目


Welcome to IntelliJ IDEA
IntelliJ IDEA
Version 2016.3.4
Create New Project
Import Project
Open
Check out from Version Control
Configure
Get Help


New Project
Java
Java FX
Android
Intellij Platform Plugin
Maven
Gradle
Groovy
Griffon
Python
Kotlin
Empty Project
Empty Project





4.2 tensorflow 实例

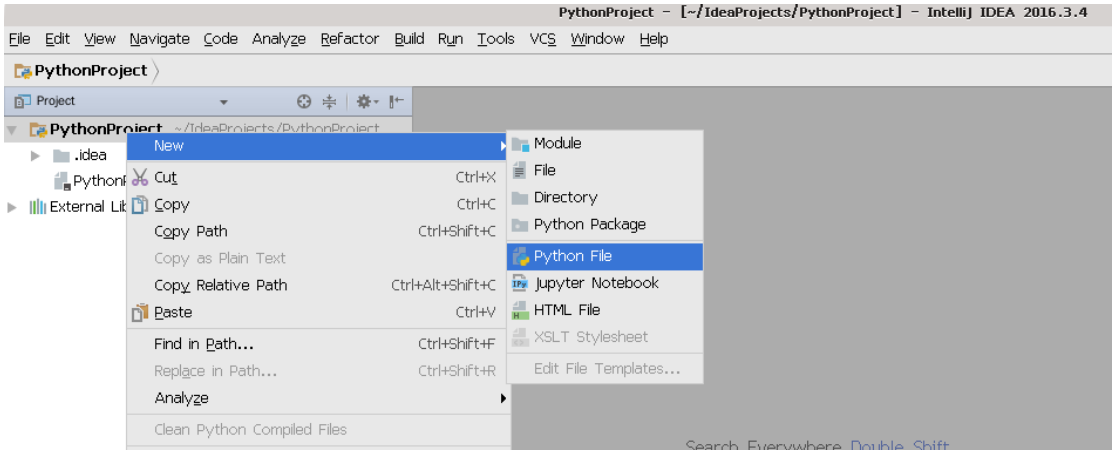
使用前先打开 tensorflow 计算环境

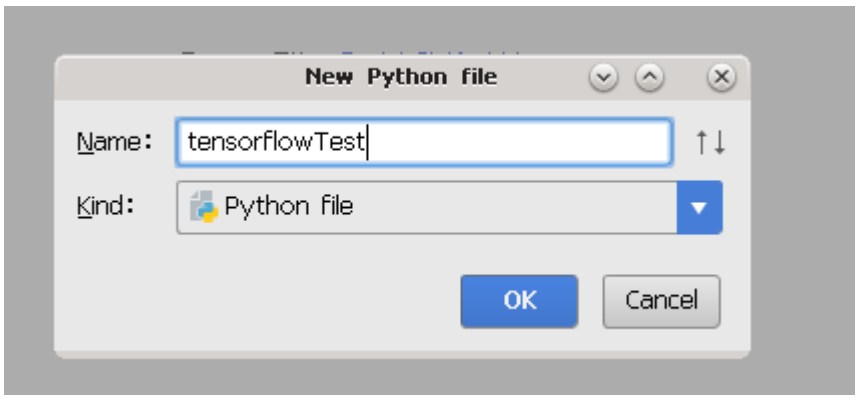
source activate tensorflow

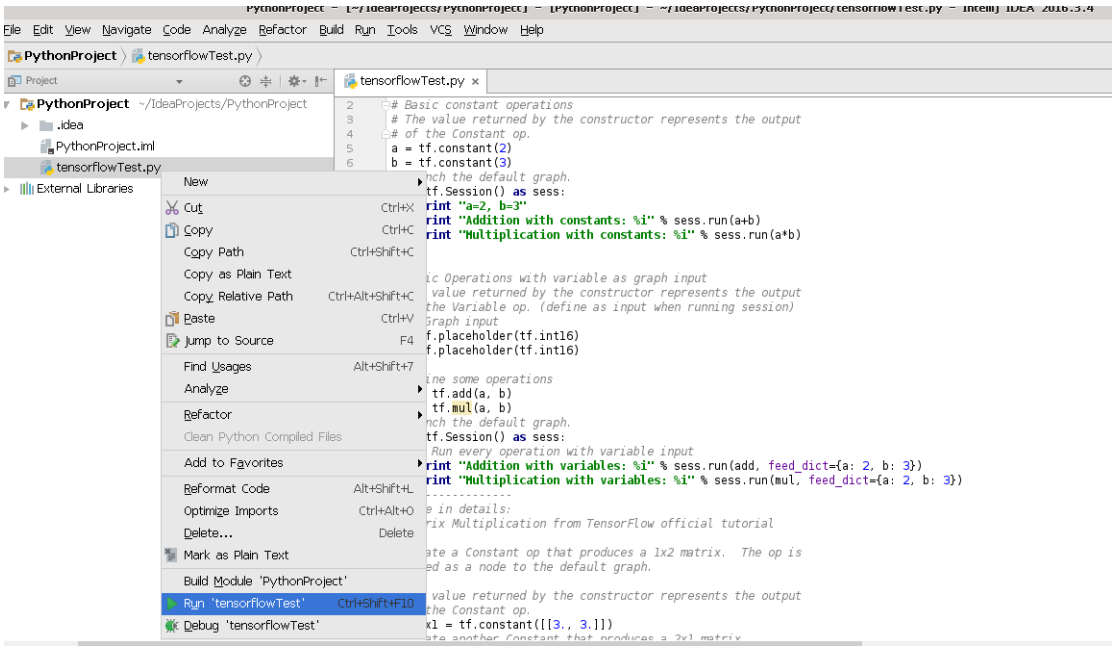
退出环境 source deactivate

新建 python 文件

右键[新建]-[python file]-[ok]







运行 tensorflow 实例文件

右键[run]后运算过程和结果情况会在下面控制台打印出来