Tensorflow-模型的保存

导入包

```
import os
import tensorflow
```

下载数据

```
(train_images, train_labels), (test_images, test_labels)
= tensorflow.keras.datasets.mnist.load_data()
```

处理数据

取出1000个数据

```
train_labels = train_labels[:1000]
test_labels = test_labels[:1000]
```

像数值缩小

```
train_images = train_images[:1000].reshape(-1, 28 * 28)
/ 255.0
test_images = test_images[:1000].reshape(-1, 28 * 28) /
255.0
```

一个简单的序列模型

```
def create_model():
    model = tensorflow.keras.Sequential()
    model.add(
        tensorflow.keras.layers.Dense(
            units=512, activation='relu', input_shape=
(784, )
        ),
    ),
    model.add(
        tensorflow.keras.layers.Dropout(0.2),
    )
```

```
model.add(
    tensorflow.keras.layers.Dense(
        units=10, activation='softmax', ),
)
model.compile(
    optimizer='adam',
    loss='sparse_categorical_crossentropy',
    metrics=['accuracy'],
)
return model
```

实例话图像处理对象

```
model = create_model()
```

显示模型结构

```
model.summary()
```

获取路径

模型数据的保存地址

```
checkpoint_path = "training_1/cp.ckpt"

# 返回路径: dirname

checkpoint_dir = os.path.dirname(checkpoint_path)
```

创建回调

保存模型权重

```
cp_callback =
tensorflow.keras.callbacks.ModelCheckpoint(
    filepath=checkpoint_path,
    save_weights_only=True,
    verbose=1,
)
```

训练模型

评估模型

```
loss, acc = model.evaluate(test_images, test_labels,
verbose=2)

print("Untrained model, accuracy:
{:5.2f}%".format(100*acc))
```