

Keras

Export protobuf

prereq

```
bazel build tensorflow/python/tools:freeze_graph
```

```
import argparse
ap = argparse.ArgumentParser()
ap.add_argument('--input', required=True)
ap.add_argument('--output', default="/tmp/model/ckpt")
args = ap.parse_args()

from keras import backend as K
from keras.models import load_model
import tensorflow as tf

K.set_learning_phase(0)

# create model and load weights or ...
# model = create_model()
# model.load_weights(args.input)

# ... load h5 model
load_model(args.input)

saver = tf.train.Saver()
saver.save(K.get_session(), args.default)
print("Output node needed in freeze_graph: %s" % model.output.op.name)
print("Model created in: %s" % args.output)
```

result

```
/tmp/model
├── checkpoint
├── ckpt.data-00000-of-00001
├── ckpt.index
└── ckpt.meta
```

freeze

```
bazel-bin/tensorflow/python/tools/freeze_graph \
--input_meta_graph=/tmp/model/ckpt.meta \
--input_checkpoint=/tmp/model/ckpt \
--output_graph=frozen_graph.pb \
--input_binary \
```

```
--output_node_names="previous output node name"
```

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