## TopogrElow

TensorFlow API r1.4

## tf.GraphKeys

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## Class GraphKeys

Defined in tensorflow/python/framework/ops.py.

See the guide: Building Graphs > Graph collections

Standard names to use for graph collections.

The standard library uses various well-known names to collect and retrieve values associated with a graph. For example, the **tf.Optimizer** subclasses default to optimizing the variables collected under **tf.GraphKeys.TRAINABLE\_VARIABLES** if none is specified, but it is also possible to pass an explicit list of variables.

The following standard keys are defined:

- GLOBAL\_VARIABLES: the default collection of Variable objects, shared across distributed environment (model variables are subset of these). See tf.global\_variables for more details. Commonly, all TRAINABLE\_VARIABLES variables will be in MODEL\_VARIABLES, and all MODEL\_VARIABLES variables will be in GLOBAL\_VARIABLES.
- LOCAL\_VARIABLES: the subset of Variable objects that are local to each machine. Usually used for temporarily variables, like counters. Note: use tf.contrib.framework.local\_variable to add to this collection.
- MODEL\_VARIABLES: the subset of Variable objects that are used in the model for inference (feed forward). Note: use
  tf.contrib.framework.model\_variable to add to this collection.
- TRAINABLE\_VARIABLES: the subset of Variable objects that will be trained by an optimizer. See
  tf.trainable\_variables for more details.
- **SUMMARIES**: the summary **Tensor** objects that have been created in the graph. See **tf.summary.merge\_all** for more details.
- QUEUE\_RUNNERS: the QueueRunner objects that are used to produce input for a computation. See tf.train.start\_queue\_runners for more details.
- MOVING\_AVERAGE\_VARIABLES: the subset of Variable objects that will also keep moving averages. See
  tf.moving\_average\_variables for more details.
- REGULARIZATION\_LOSSES: regularization losses collected during graph construction.

The following standard keys are defined, but their collections are not automatically populated as many of the others are:

- WEIGHTS
- BIASES
- ACTIVATIONS

ACTIVATIONS
ASSET_FILEPATHS
BIASES
CONCATENATED_VARIABLES
COND_CONTEXT
EVAL_STEP
GLOBAL_STEP
GLOBAL_VARIABLES
INIT_OP
LOCAL_INIT_OP
LOCAL_RESOURCES
LOCAL_VARIABLES
LOSSES
MODEL_VARIABLES
MOVING_AVERAGE_VARIABLES
QUEUE_RUNNERS
READY_FOR_LOCAL_INIT_OP
READY_OP
REGULARIZATION_LOSSES
RESOURCES
SAVEABLE_OBJECTS
SAVERS
SUMMARIES
SUMMARY_OP
TABLE_INITIALIZERS
TRAINABLE_RESOURCE_VARIABLES

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TRAINABLE\_VARIABLES

TRAIN\_OP

UPDATE\_OPS

**VARIABLES** 

WHILE\_CONTEXT

**WEIGHTS**