TencorFlow

TensorFlow API r1.4

tf.contrib.data.group_by_window

```
group_by_window(
   key_func,
   reduce_func,
   window_size=None,
   window_size_func=None
)
```

Defined in tensorflow/contrib/data/python/ops/grouping.py.

A transformation that groups windows of elements by key and reduces them.

This transformation maps each consecutive element in a dataset to a key using **key_func** and groups the elements by key. It then applies **reduce_func** to at most **window_size_func(key)** elements matching the same key. All execpt the final window for each key will contain **window_size_func(key)** elements; the final window may be smaller.

You may provide either a constant window_size or a window size determined by the key through window_size_func .

Args:

- key_func: A function mapping a nested structure of tensors (having shapes and types defined by self.output_shapes and self.output_types) to a scalar tf.int64 tensor.
- reduce_func: A function mapping a key and a dataset of up to batch_size consecutive elements matching that key
 to another dataset.
- window_size: A tf.int64 scalar tf.Tensor, representing the number of consecutive elements matching the same key to combine in a single batch, which will be passed to reduce_func. Mutually exclusive with window_size_func.
- window_size_func: A function mapping a key to a tf.int64 scalar tf.Tensor, representing the number of
 consecutive elements matching the same key to combine in a single batch, which will be passed to reduce_func.
 Mutually exclusive with window_size.

Returns:

A Dataset transformation function, which can be passed to tf.data.Dataset.apply.

Raises:

ValueError: if neither or both of { window_size, window_size_func } are passed.

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