

tf.contrib.seq2seq.ScheduledOutputTrainingHelper

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Class **ScheduledOutputTrainingHelper**Inherits From: [TrainingHelper](#)Defined in [tensorflow/contrib/seq2seq/python/ops/helper.py](#).See the guide: [Seq2seq Library \(contrib\) > Dynamic Decoding](#)

A training helper that adds scheduled sampling directly to outputs.

Returns False for sample_ids where no sampling took place; True elsewhere.

Properties

batch_size**sample_ids_dtype****sample_ids_shape**

Methods

__init__

```
__init__(
    inputs,
    sequence_length,
    sampling_probability,
    time_major=False,
    seed=None,
    next_inputs_fn=None,
    auxiliary_inputs=None,
    name=None
)
```

Initializer.

Args:

- `inputs` : A (structure) of input tensors.
- `sequence_length` : An int32 vector tensor.
- `sampling_probability` : A 0D `float32` tensor: the probability of sampling from the outputs instead of reading directly from the inputs.
- `time_major` : Python bool. Whether the tensors in `inputs` are time major. If `False` (default), they are assumed to be batch major.
- `seed` : The sampling seed.
- `next_inputs_fn` : (Optional) callable to apply to the RNN outputs to create the next input when sampling. If `None` (default), the RNN outputs will be used as the next inputs.
- `auxiliary_inputs` : An optional (structure of) auxiliary input tensors with a shape that matches `inputs` in all but (potentially) the final dimension. These tensors will be concatenated to the sampled output or the `inputs` when not sampling for use as the next input.
- `name` : Name scope for any created operations.

Raises:

- `ValueError` : if `sampling_probability` is not a scalar or vector.

initialize

```
initialize(name=None)
```

next_inputs

```
next_inputs(
    time,
    outputs,
    state,
    sample_ids,
    name=None
)
```

sample

```
sample(
    time,
    outputs,
    state,
    name=None
)
```

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