tf.metrics.recall

```
recall(
    labels,
    predictions,
    weights=None,
    metrics_collections=None,
    updates_collections=None,
    name=None
)
```

Defined in `tensorflow/python/ops/metrics_impl.py`.

Computes the recall of the predictions with respect to the labels.

The `recall` function creates two local variables, `true_positives` and `false_negatives`, that are used to compute the recall. This value is ultimately returned as `recall`, an idempotent operation that simply divides `true_positives` by the sum of `true_positives` and `false_negatives`.

For estimation of the metric over a stream of data, the function creates an `update_op` that updates these variables and returns the `recall`. `update_op` weights each prediction by the corresponding value in `weights`.

If `weights` is `None`, weights default to 1. Use weights of 0 to mask values.

Args:

- `labels`: The ground truth values, a `Tensor` whose dimensions must match `predictions`. Will be cast to `bool`.
- `predictions`: The predicted values, a `Tensor` of arbitrary dimensions. Will be cast to `bool`.
- `weights`: Optional `Tensor` whose rank is either 0, or the same rank as `labels`, and must be broadcastable to `labels` (i.e., all dimensions must be either `1`, or the same as the corresponding `labels` dimension).
- `metrics_collections`: An optional list of collections that `recall` should be added to.
- `updates_collections`: An optional list of collections that `update_op` should be added to.
- `name`: An optional variable_scope name.

Returns:

- `recall`: Scalar float `Tensor` with the value of `true_positives` divided by the sum of `true_positives` and `false_negatives`.
- `update_op`: `Operation` that increments `true_positives` and `false_negatives` variables appropriately and whose value matches `recall`.

Raises:

- `ValueError`: If `predictions` and `labels` have mismatched shapes, or if `weights` is not `None` and its shape doesn't match `predictions`, or if either `metrics_collections` or `updates_collections` are not a list or tuple.

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