Module: tf.contrib.framework.nest

Defined in `tensorflow/python/util/nest.py`.

Functions for working with arbitrarily nested sequences of elements.

This module can perform operations on nested structures. A nested structure is a Python sequence, tuple (including `namedtuple`), or dict that can contain further sequences, tuples, and dicts.

The utilities here assume (and do not check) that the nested structures form a 'tree', i.e., no references in the structure of the input of these functions should be recursive.

Example structures: `((3, 4), 5, (6, 7, (9, 10), 8))`, `(np.array(0), (np.array([3, 4]), tf.constant([3, 4])))`

Functions

`assert_same_structure(...)`: Asserts that two structures are nested in the same way.

`assert_shallow_structure(...)`: Asserts that `shallow_tree` is a shallow structure of `input_tree`.

`flatten(...)`: Returns a flat list from a given nested structure.

`flatten_dict_items(...)`: Returns a dictionary with flattened keys and values.

`flatten_up_to(...)`: Flattens `input_tree` up to `shallow_tree`.

`get_traverse_shallow_structure(...)`: Generates a shallow structure from a `traverse_fn` and `structure`.

`is_sequence(...)`: Returns a true if its input is a collections.Sequence (except strings).

`map_structure(...)`: Applies `func` to each entry in `structure` and returns a new structure.

`map_structure_up_to(...)`: Applies a function or op to a number of partially flattened inputs.

`pack_sequence_as(...)`: Returns a given flattened sequence packed into a given structure.

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