

tf.contrib.framework.nest.map_structure

```
map_structure(  
    func,  
    *structure,  
    **check_types_dict  
)
```

Defined in [tensorflow/python/util/nest.py](#).

Applies **func** to each entry in **structure** and returns a new structure.

Applies **func(x[0], x[1], ...)** where **x[i]** is an entry in **structure[i]**. All structures in **structure** must have the same arity, and the return value will contain the results in the same structure.

Args:

- **func** : A callable that accepts as many arguments as there are structures.
- ***structure** : scalar, or tuple or list of constructed scalars and/or other tuples/lists, or scalars. Note: numpy arrays are considered as scalars.
- ****check_types_dict** : only valid keyword argument is **check_types**. If set to **True** (default) the types of iterables within the structures have to be same (e.g. **map_structure(func, [1], (1,))** raises a **TypeError** exception). To allow this set this argument to **False**.

Returns:

A new structure with the same arity as **structure**, whose values correspond to **func(x[0], x[1], ...)** where **x[i]** is a value in the corresponding location in **structure[i]**. If there are different sequence types and **check_types** is **False** the sequence types of the first structure will be used.

Raises:

- **TypeError** : If **func** is not callable or if the structures do not match each other by depth tree.
- **ValueError** : If no structure is provided or if the structures do not match each other by type.
- **ValueError** : If wrong keyword arguments are provided.

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