Selected variables

> Sometimes it is important to give names to different variables and assign them to different *variable scope*, so that we can find the corresponding variables easier by their names or scopes. This mechanism is useful for debugging your codes, and might also be helpful when the training is specific to some variables.

The basic usage of *variable_scope*:

```
with tf.variable_scope('my_var_scope'):
    a = tf.Variable(0, name='my_var_name')
```

Here, we will show scenarios where *variable scope* is useful:

1. reuse some variables
2. save and load only part of the variables in the checkpoint