```
_{o}peration = \\ tf.add(var, 1)update_{o}peration =
      tf. assign (var, add_operation) with tf. Session () assess:\\
      sess.run(tf.global_variables_initializer())for_inrange(3):
      sess.run(update_operation)print(sess.run(var))
      _{v}alue =
      sess.run(z1, feed_dict =
     \begin{array}{l} sess.run(z, f)cca_{abc} = \\ x1:1,y1:2)z1_{v}alue, z2_{v}alue = \\ sess.run([z1,z2], feed_{dict} = \\ x1:1,y1:2,x2:[[2],[2]],y2:[[3,3]])print(z1_{v}alue)print(z2_{v}alue) \end{array}
      (\bar{x})/\sqrt{Var(x) + variable_{epsilon}}
    x)/\sqrt{V} and x=x x=

\frac{1}{m} \Sigma_{i-1}

\frac{\dot{\sigma}^2}{\dot{\sigma}^2} = \frac{1}{m} \sum_{i=1}^m (x_i - 1)^{-1} \sum_{i=1}^m (x_i - 1)^
      _{p}atch =
      mpatches.Patch(color = '
      red', label = 1
      sigmoid') blue_patch =
     mpatches.Patch(color ='
blue', label ='
tanh')withf.Session()assess:
      [x, y1, y2] =
      sess.run([x,y1,y2])plt.plot(x,y1,'r',x,y2,'b')ax =
      plt.gca()ax.annotate(r)

\begin{array}{c}
p_{tv} \\
-2x \\
\hline
1+e^{-x} \\
d
\end{array}

      sigmoid(x) =
       \frac{1}{1+e^{-x}}
       _{f}un.pngactivatefun
      patch =
      mpatches.Patch(color = '
      blue', label = 1
      softplus') yellow_p atch =
      mpatches. Patch (color ='
      yellow', label =
      "relu") withtf. Session() assess:
      [x, y2, y3] =
     sess.run([x,y2,y3])plt.plot(x,y2,'b',x,y3,'y')ax = plt.gca()plt.xlabel('x')ax.annotate(r''x')
      relu(x) =
      max(x,0)
     _{p}atc\grave{h}, \emph{ye}\emph{i}low_{p}atch])plt.savefig('relu_{s}oftplus.png', dpi=600)
     softplus.png \\ shape = \\ [1,4])print(sess.run(b))c =
      tf.nn.dropout(a, 0.5, noise_shape =
      [1,1])print(sess.run(c))
     data = tf. Variable(tf.random_normal(shape = tf. Q 0.0.2) mean = tf. Q 0.0.2 mean = tf.
      0, stddev =
      1), dtype =
      tf.float32)kernel =
       tf.Variable(tf.random_normal(shape =
     [2,2,3,2], mean = 0, stddev =
     1, dtype = tf.float32)
     _{d} ata, kernel, strides = [1, 1, 1, 1], padding = '
      SAME')init =
      tf.global_variables_initializer()withtf.Session()assess:
      sess.run(init)print(sess.run(y).shape)
```

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