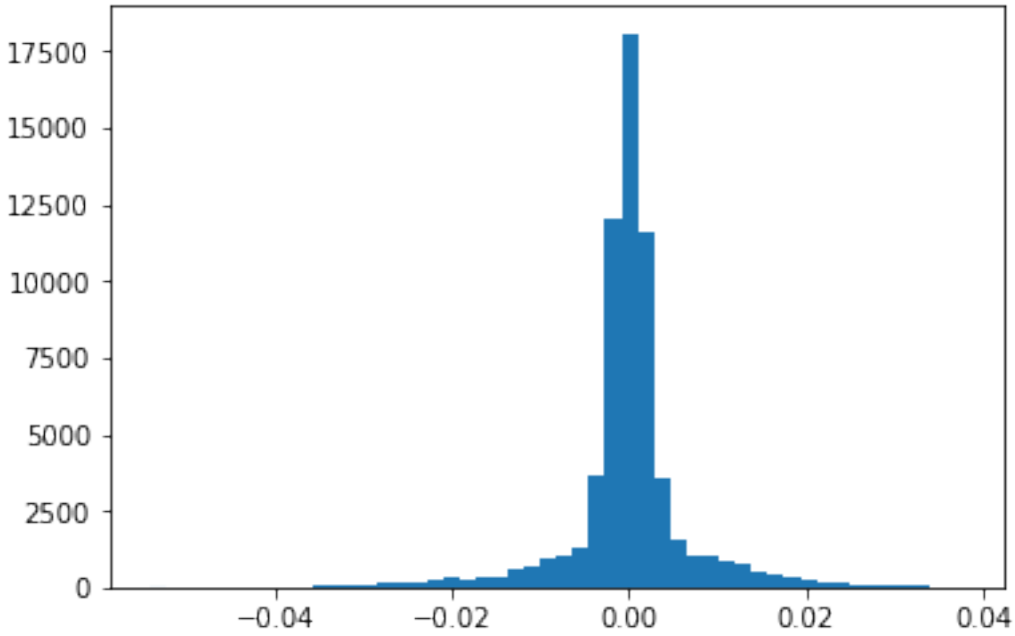
Example 1

January 25, 2017

In [1]:
```
%matplotlib inline
import scipy.io.wavfile as wav
import matplotlib.pyplot as plt

rate, snd = wav.read("sndfile.wav")
plt.hist(snd/(2.0**15),50)
```

Out[1]:
```
(array([  4.00000000e+00,   2.00000000e+00,   2.00000000e+00,
          3.00000000e+00,   8.00000000e+00,   1.40000000e+01,
          1.30000000e+01,   1.20000000e+01,   1.60000000e+01,
          2.00000000e+01,   5.20000000e+01,   6.50000000e+01,
          6.10000000e+01,   9.40000000e+01,   1.52000000e+02,
          1.75000000e+02,   1.98000000e+02,   2.75000000e+02,
          3.70000000e+02,   2.88000000e+02,   3.29000000e+02,
          3.61000000e+02,   5.72000000e+02,   6.99000000e+02,
          9.59000000e+02,   9.90000000e+02,   1.32800000e+03,
          3.65800000e+03,   1.19990000e+04,   1.80810000e+04,
          1.16080000e+04,   3.56200000e+03,   1.53200000e+03,
          1.06900000e+03,   1.05700000e+03,   8.65000000e+02,
          7.29000000e+02,   5.04000000e+02,   4.26000000e+02,
          3.65000000e+02,   2.65000000e+02,   1.57000000e+02,
          1.42000000e+02,   8.90000000e+01,   8.70000000e+01,
          1.00000000e+02,   6.90000000e+01,   4.40000000e+01,
          1.40000000e+01,   4.00000000e+00]),
 array([-0.05404663, -0.0522113 , -0.05037598, -0.04854065, -0.04670532,
        -0.04487   , -0.04303467, -0.04119934, -0.03936401, -0.03752869,
        -0.03569336, -0.03385803, -0.03202271, -0.03018738, -0.02835205,
        -0.02651672, -0.0246814 , -0.02284607, -0.02101074, -0.01917542,
        -0.01734009, -0.01550476, -0.01366943, -0.01183411, -0.00999878,
        -0.00816345, -0.00632812, -0.0044928 , -0.00265747, -0.00082214,
         0.00101318,  0.00284851,  0.00468384,  0.00651917,  0.00835449,
         0.01018982,  0.01202515,  0.01386047,  0.0156958 ,  0.01753113,
         0.01936646,  0.02120178,  0.02303711,  0.02487244,  0.02670776,
         0.02854309,  0.03037842,  0.03221375,  0.03404907,  0.0358844 ,
         0.03771973]),
 <a list of 50 Patch objects>)
```


17500
15000
12500
10000
7500
5000
2500
0
−0.04
−0.02
0.00
0.02
0.04