

In [2]:

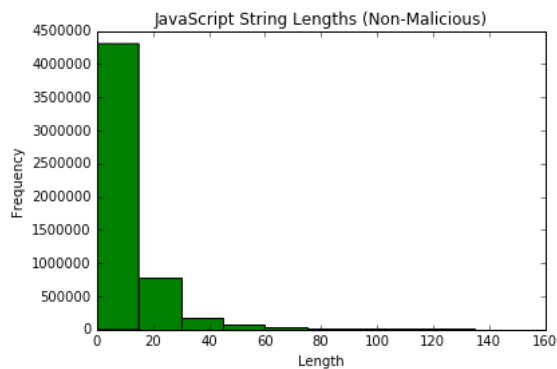
```
%matplotlib inline
import matplotlib
import matplotlib.pyplot as plt
import numpy as np
from scipy import stats

f = open("results/StringLengthZero.txt", "r")
StrLenValues=[]
for line in f:
    line = line.strip("\n")
    StrLenValues.append(int(line))
f.close()
arr = np.array(StrLenValues)
print'Maximum String Length :%d' %(np.max(arr))
print'Mean String Length :%4.1f' %(np.mean(arr))
m = stats.mode(arr)
print'Mode: %d occurs %d times' %(m[0], m[1])
print
print
plt.hist(arr, range=[0,150], color='green', bins=10)
plt.title("JavaScript String Lengths (Non-Malicious)")
plt.xlabel("Length")
plt.ylabel("Frequency")
```

```
Maximum String Length :631760
Mean String Length :18.1
Mode: 8 occurs 546027 times
```

Out[2]:

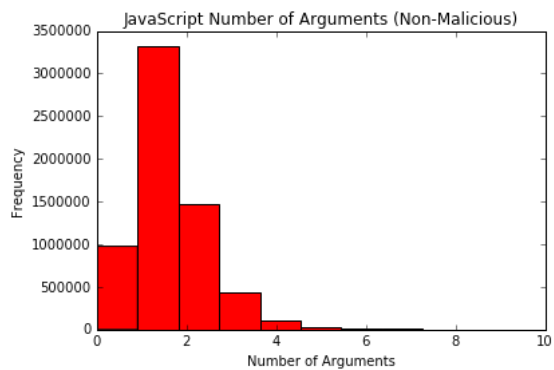
&lt;matplotlib.text.Text at 0x7f2297446b90&gt;



```
In [3]: f = open("results/NumArgZero.txt", "r")
NumArgValues=[]
for line in f:
    line = line.strip("\n")
    NumArgValues.append(int(line))
f.close()
arg_arr = np.array(NumArgValues)
print'Maximum Number of Arguments :%d' %(np.max(arg_arr))
print'Mean   Number of Arguments :%4.1f' %(np.mean(arg_arr))
m = stats.mode(arg_arr)
print'Mode:  %d occurs %d times' %(m[0], m[1])
print
print
plt.hist(arg_arr, range=[0,10], color='red', bins=11)
plt.title("JavaScript Number of Arguments (Non-Malicious)")
plt.xlabel("Number of Arguments")
plt.ylabel("Frequency")

Maximum Number of Arguments :57
Mean   Number of Arguments : 1.3
Mode:  1 occurs 3327425 times
```

Out[3]: <matplotlib.text.Text at 0x7f22970aee10>



In [4]:

```

f = open("results/NumNodesZero.txt", "r")
NumNodesValues=[]
for line in f:
    line = line.strip("\n")
    x = int(line)
    if x != 0 :
        NumNodesValues.append(x)
f.close()
nodes_arr = np.array(NumNodesValues)
print'Number of Javascript files processed %d' %(len(NumNodesValues))
print'Maximum Number of AST Nodes :%d' %(np.max(nodes_arr))
print'Mean    Number of AST Nodes :%4.1f' %(np.mean(nodes_arr))
m = stats.mode(nodes_arr)
print'Mode:  %d occurs %d times' %(m[0], m[1])
print
print
plt.hist(nodes_arr, range=[0, 2000], color='blue', bins=10)
plt.title("JavaScript Number of AST Nodes (Non-Malicious)")
plt.xlabel("Number of AST Nodes")
plt.ylabel("Frequency")

```

```

Number of Javascript files processed 19460
Maximum Number of AST Nodes :927918
Mean    Number of AST Nodes :5381.0
Mode:  4 occurs 673 times

```

Out[4]:

```
<matplotlib.text.Text at 0x7f2296faa6d0>
```

