In [1]:
```
import pandas as pd
import xml.etree.ElementTree as et

xtree = et.parse("/home/fsociety/Documents/Precog/stackoverflow.com
xroot = xtree.getroot()
chil = list(xroot.getchildren())
# df_cols= ['Id','TagName','Count','ExcerptPostId','WikiPostId']
df_cols = list(chil[0].attrib.keys())

rows = []


for node in xroot:

    res = []
    i=0
    while i < len(df_cols):
        i+=1
        res.append(node.attrib.get(df_cols[i-1]))
#         print(node.attrib.get(df_cols[i-1]))

    rows.append({df_cols[i]: res[i]
                 for i, _ in enumerate(df_cols)})

out_df = pd.DataFrame(rows, columns=df_cols)
```

```
<ipython-input-1-0ae49832608a>:6: DeprecationWarning: This method
will be removed in future versions.  Use 'list(elem)' or iteration
over elem instead.
  chil = list(xroot.getchildren())
```

In [2]:
```
out_df
```

Out[2]:

	Id	TagName	Count	ExcerptPostId	WikiPostId
0	1	.net	293379	3624959	3607476
1	2	html	970699	3673183	3673182
2	3	javascript	1955557	3624960	3607052
3	4	css	649436	3644670	3644669
4	5	php	1335050	3624936	3607050
...	...	...	...	...	...
57459	143155	next-jdbc	1	None	None
57460	143156	android-jetpack-security	1	60470204	60470203
57461	143157	android-kotlin	0	None	None
57462	143158	swashbuckle.aspnetcore	1	None	None
57463	143159	pointdns	1	None	None

In [3]:
```
out_df['Count'] = out_df['Count'].astype(int)
```

In [4]:
```
out_df.sort_values(by=['Count'], inplace=True, ascending=False)
```

In [5]:
```
out_df
```

Out[5]:

	Id	TagName	Count	ExcerptPostId	WikiPostId
2	3	javascript	1955557	3624960	3607052
11	17	java	1641102	3624966	3607018
6	9	c#	1385220	3624962	3607007
10	16	python	1359126	3624965	3607014
4	5	php	1335050	3624936	3607050
...	...	...	...	...	...
55486	140544	jmeter-to-k6	1	58309597	58309596
55487	140546	convox	1	None	None
57463	143159	pointdns	1	None	None
57436	143130	key-vault	0	None	None
57461	143157	android-kotlin	0	None	None

57464 rows × 5 columns

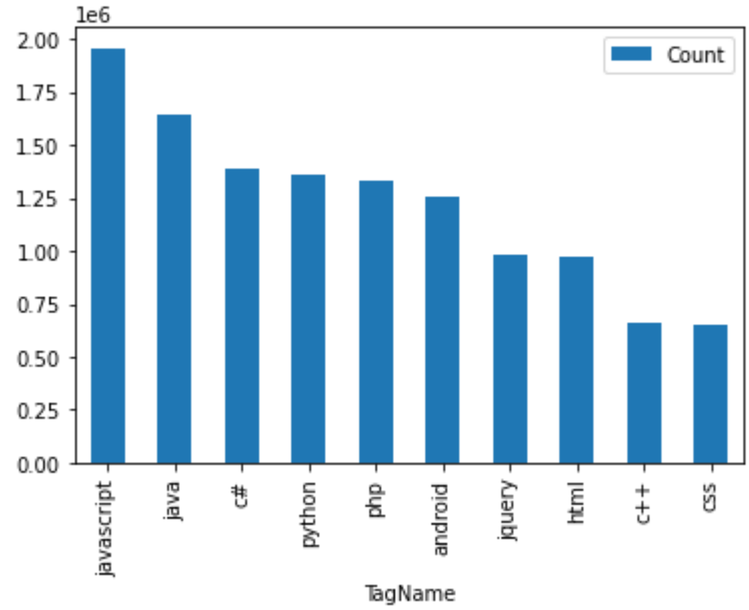
In [6]:
```
out_df.head(10)
```

Out[6]:

	Id	TagName	Count	ExcerptPostId	WikiPostId
2	3	javascript	1955557	3624960	3607052
11	17	java	1641102	3624966	3607018
6	9	c#	1385220	3624962	3607007
10	16	python	1359126	3624965	3607014
4	5	php	1335050	3624936	3607050
675	1386	android	1254482	3625001	3607484
406	820	jquery	978412	3625262	3607053
1	2	html	970699	3673183	3673182
7	10	c++	656969	3624963	3606997
3	4	css	649436	3644670	3644669

In [7]:
```
out_df.head(10).plot(x="TagName", y="Count", kind="bar")
```

Out[7]:
```
<AxesSubplot:xlabel='TagName'>
```



In [10]:
```
from wordcloud import WordCloud, STOPWORDS
import matplotlib.pyplot as plt
text = out_df.head(10).TagName.values
wordcloud = WordCloud(
    width = 3000,
    height = 2000,
    background_color = 'black',
    stopwords = STOPWORDS).generate(str(text))
fig = plt.figure(
    figsize = (6, 5),
    facecolor = 'k',
    edgecolor = 'k')
plt.imshow(wordcloud, interpolation = 'bilinear')
plt.axis('off')
plt.tight_layout(pad=10)
plt.show()
```

html'
C
java'
android'
php'
javascript'
python'
css'
jquery'

In [ ]:

In [ ]:

In [ ]: