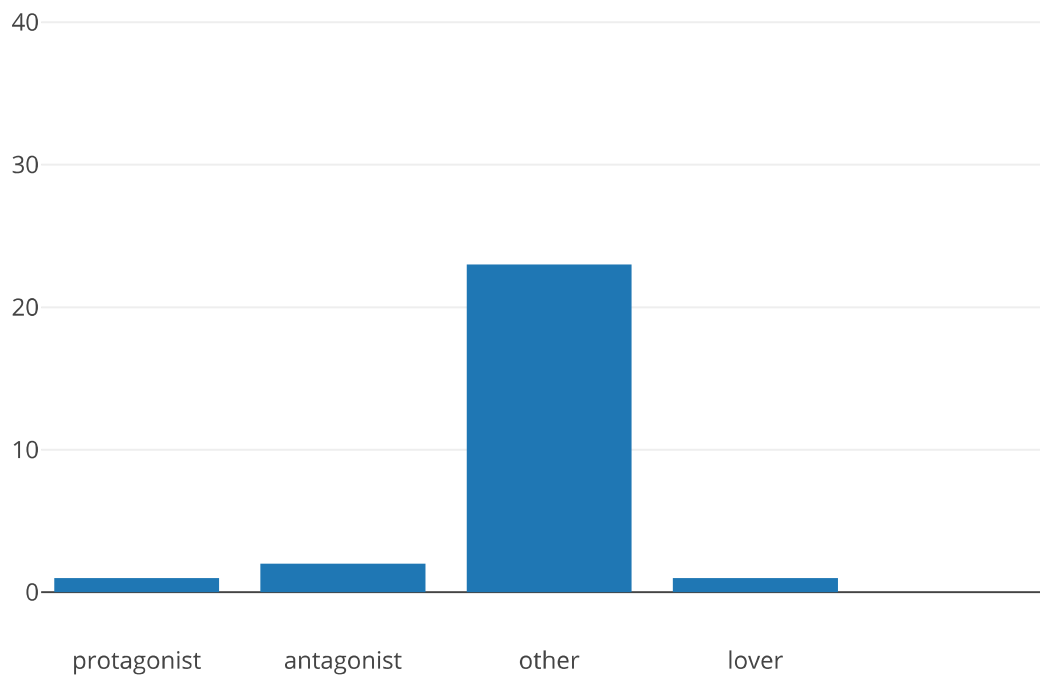```
In [10]: import plotly.plotly as py
          import plotly.graph_objs as go
          import plotly.figure_factory as ff
          from collections import Counter
```

## Roles

```
In [11]: x_axis = AYL_theatre_data["role"]
          role_data = [go.Histogram(x=x_axis)]

          py.iplot(role_data, filename='roles_hist')
```
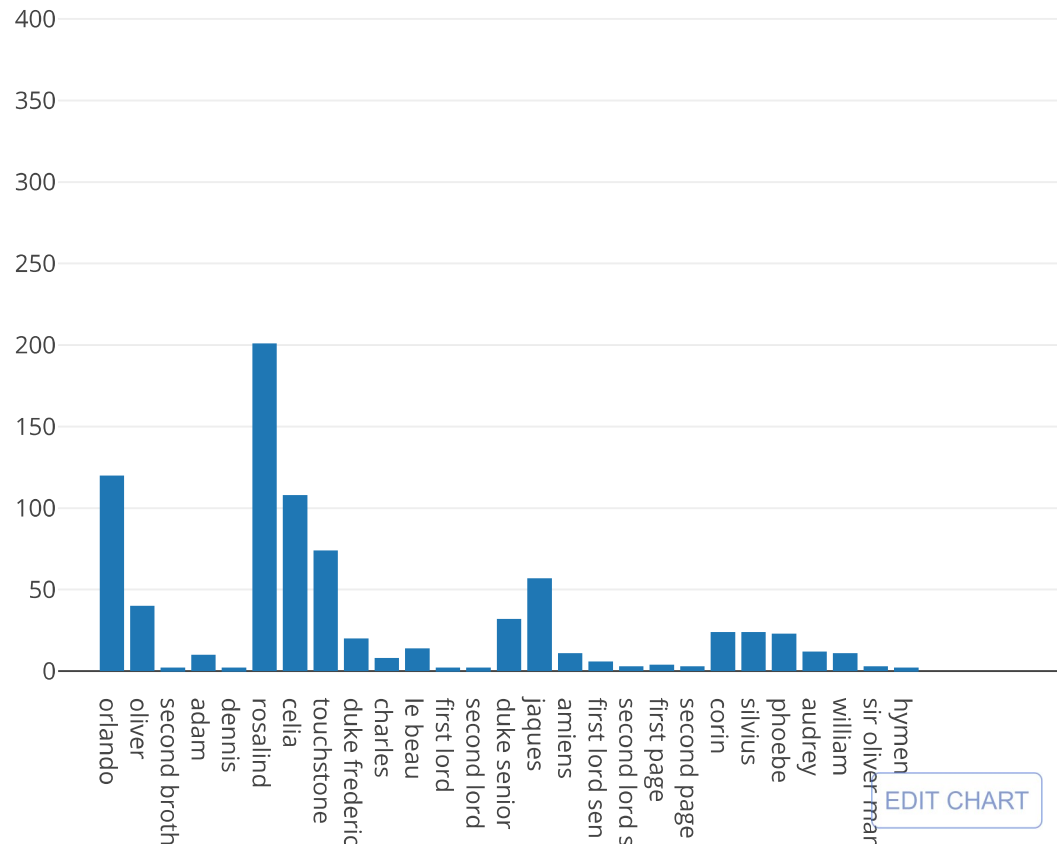
Out[11]:



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```
In [12]:  print(Counter(AYL_theatre_data["role"]))
          Counter({'other': 23, 'antagonist': 2, 'protagonist': 1, 'lover': 1})
```

Speech occurences per Label/Character/Speaker

In [13]:
```
sp_data = [go.Bar(x=AYL_theatre_data.label, y=AYL_theatre_data.per_ms_s
ps)]
py.iplot(sp_data, filename='sp_hist')
```

Out[13]:

```
In [14]: sp_table = AYL_theatre_data[['label', 'per_ms_sps']]
         sp_table
```

Out[14]:

	label	per_ms_sps
0	orlando	120
1	oliver	40
2	second brother	2
3	adam	10
4	dennis	2
5	rosalind	201
6	celia	108
7	touchstone	74
8	duke frederick	20
9	charles	8
10	le beau	14
11	first lord	1
12	second lord	1
13	duke senior	32
14	jaques	57
15	amiens	11
16	first lord sen	6
17	second lord sen	3
18	first page	4
19	second page	3
20	corin	24
21	silvius	24
22	phoebe	23
23	audrey	12
24	william	11
25	sir oliver martext	3
26	hymen	2

Importance

```
In [15]: importance_table = AYL_theatre_data[['label','importance']]
         importance_table
```

Out[15]:

	label	importance
0	orlando	primary
1	oliver	primary
2	second brother	minor
3	adam	minor
4	dennis	minor
5	rosalind	primary
6	celia	secondary
7	touchstone	secondary
8	duke frederick	secondary
9	charles	minor
10	le beau	minor
11	first lord	minor
12	second lord	minor
13	duke senior	secondary
14	jaques	secondary
15	amiens	minor
16	first lord sen	minor
17	second lord sen	minor
18	first page	minor
19	second page	minor
20	corin	minor
21	silvius	minor
22	phoebe	minor
23	audrey	minor
24	william	minor
25	sir oliver martext	minor
26	hymen	minor

```
In [16]: print(Counter(AYL_theatre_data["importance"]))
```

```
Counter({'minor': 19, 'secondary': 5, 'primary': 3})
```

Gender

```
In [17]: print(Counter(AYL_theatre_data["gender"]))

Counter({'male': 23, 'female': 4})
```