In [4]:
```
import matplotlib
import pandas as pd
%matplotlib inline
```

In [13]:
```
# Read the CSV File into a Dataframe
events_dataset = './events_recommender/resources/event_dataset.csv'
```

In [14]:
```
events_df = pd.read_csv(events_dataset)
events_df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 790 entries, 0 to 789
Data columns (total 13 columns):
event_edition_id         790 non-null int64
event_name               790 non-null object
event_category           790 non-null object
registration_type        790 non-null object
start_date               790 non-null object
end_date                 790 non-null object
venue                    772 non-null object
city                     772 non-null object
event_tags               687 non-null object
season                   790 non-null int64
event_category_num       790 non-null int64
registration_type_num    790 non-null int64
cluster                  790 non-null int64
dtypes: int64(5), object(8)
memory usage: 80.3+ KB
```

Total No of Events

In [15]:
```
events_df['event_edition_id'].count()
```

Out[15]: 790

Total No of Non Null and Non Empty Records per Column Present

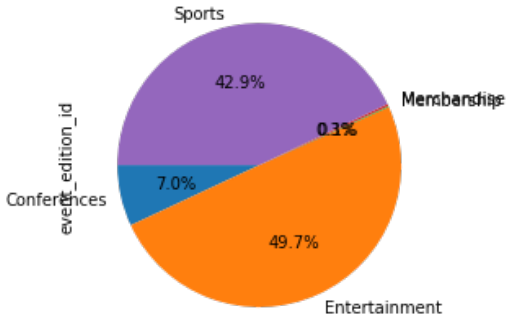
In [16]:
```
events_df.count()
```

Out[16]:
```
event_edition_id         790
event_name               790
event_category           790
registration_type        790
start_date               790
end_date                 790
venue                    772
city                     772
event_tags               687
season                   790
event_category_num       790
registration_type_num    790
cluster                  790
dtype: int64
```

Grouping the Events by Category

In [19]:
```
events_df.groupby('event_category')['event_edition_id'].count().plot.pie
(autopct='%1.1f%%',startangle=180)
```

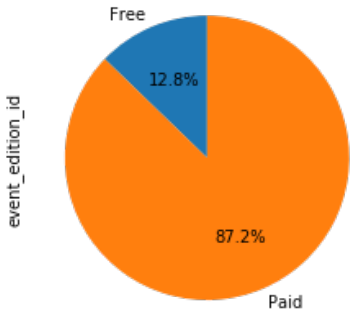
Out[19]: <matplotlib.axes._subplots.AxesSubplot at 0x7f58f978fe80>



Grouping the Events by Registration Type

In [20]:
```
events_df.groupby('registration_type')['event_edition_id'].count().plot.
pie(autopct='%1.1f%%',startangle=90)
```

Out[20]: <matplotlib.axes._subplots.AxesSubplot at 0x7f58f9763eb8>



Grouping the Events by city

In [25]:
```
events_df.groupby('city')['event_edition_id'].count().plot.bar(width=1,log=True)
```

Out[25]: <matplotlib.axes._subplots.AxesSubplot at 0x7f58f71961d0>