```
In [7]:
         !pip install cutecharts
         Requirement already satisfied: cutecharts in d:\anaconda\lib\site-packages (1.2.0)
         Requirement already satisfied: jinja2 in d:\anaconda\lib\site-packages (from cutecharts) (2.11.3)
         Requirement already satisfied: MarkupSafe>=0.23 in d:\anaconda\lib\site-packages (from jinja2->cutecha
         rts) (1.1.1)
         import cutecharts.charts as ctc
         import pandas as pd
  In [9]:
         df = pd.read_csv('data/tmdb-movies.csv')
         df.head(2)
 Out[9]:
                     imdb id
                              popularity
                                           budget
                                                     revenue original_title
                                                                                  cast
                                                                                                      hom
                                                                                 Chris
                                                                             Pratt|Bryce
                                                                  Jurassic
                              32.985763
            135397 tt0369610
                                        150000000 1513528810
                                                                                 Dallas
                                                                                        http://www.jurassicworl
                                                                    World
                                                                           Howard|Irrfan
                                                                              Khan|Vi...
                                                                                  Tom
                                                                          Hardy|Charlize
                                                                Mad Max:
              76341 tt1392190 28.419936 150000000
                                                   378436354
                                                                           Theron|Hugh
                                                                                       http://www.madmaxmovi
                                                                Fury Road
                                                                                Keays-
                                                                            Byrne|Nic...
         2 rows × 21 columns
In [10]:
         df['release_date'] = pd.to_datetime(df['release_date'])
         df['popularity'] = round(df['popularity'], 2)
         我们先清理数据,然后我们会看到可爱的图表。
         将特征更改为正确的日期时间格式并将流行功能四舍五入到小数点后两位,以获得更多内容。
         '\n我们先清理数据,然后我们会看到可爱的图表。\n\n将特征更改为正确的日期时间格式并将流行功能四舍
Out[10]:
         五入到小数点后两位,以获得更多内容。\n'
         df.drop(['imdb_id', 'homepage', 'budget_adj', 'revenue_adj'],
 In [11]:
             axis=1,
            inplace=True) #删除不必要的特征
 In [12]:
         #用missing替换特征nan值
         df['tagline'].fillna('missing', inplace=True)
         df['keywords'].fillna('missing', inplace=True)
         df['production_companies'].fillna('missing', inplace=True)
         df['cast'].fillna('missing', inplace=True)
         df['director'].fillna('missing', inplace=True)
         df['genres'].fillna('missing', inplace=True)
         df['overview'].fillna('missing', inplace=True)
 In [14]:
         #从预算和收入中删除等于 0 的值。
         df.drop(df[(df['budget'] == 0) & (df['revenue'] == 0)].index, inplace=True)
In [20]: chart = ctc.Pie() #分配你想要的图表名称,例如,你想要一个饼图然后运行下面的代码。
```

In [21]: #设置我们需要width, height在参数中添加的图表的标题、宽度和高度。
chart = ctc.Pie('Title', width='600px', height='300px')

In []: #chart.set_options()#设置图表选项,可以将使用set_options()函数。
#设置x和y标签的标题,我们将使用x_label, y_label传入set_options()函数示例如下
chart.set_options(x_label='X_Labels', y_label='Y_Labels')

In [24]: chart.render_notebook()

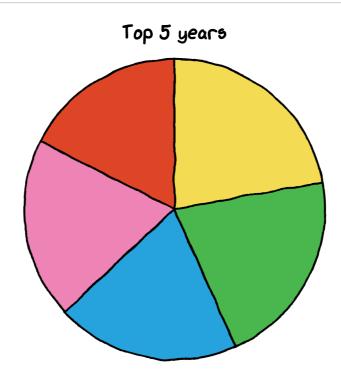
Out[24]:

Title

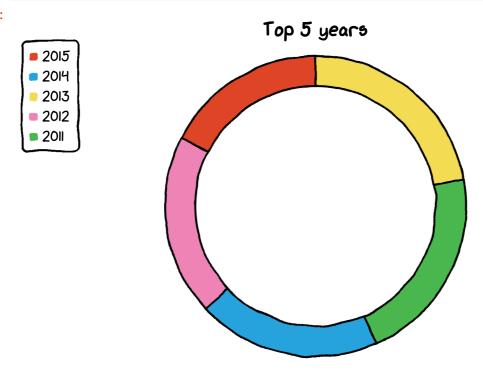
```
In [25]: #发行量最高的电影的前 5 年
df_year = df['release_year'].value_counts().reset_index().sort_values(
    by='index', ascending=False)[:5].rename(columns={
        'index': 'release_year',
        'release_year': 'Count'
        })
    chart = ctc.Pie('Top 5 years', width='600px', height='300px')
    chart.set_options(labels=list(df_year['release_year']), inner_radius=0)
    chart.add_series(list(df_year['Count']))
    chart.render_notebook()
```

Out[25]:





Out[26]:



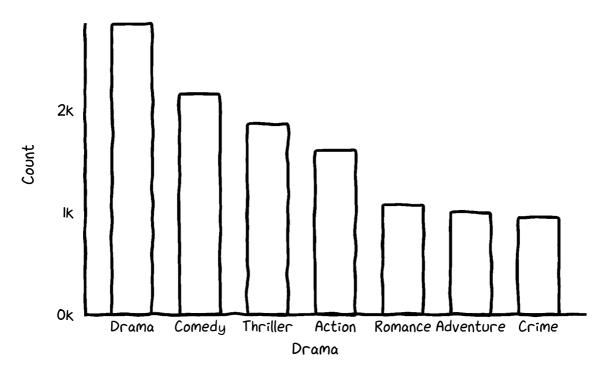
```
In [30]:
#该函数将拆分字符串并返回每个类型的计数。
def count_genre(x):
    data_plot = df[x].str.cat(sep = '|')
    data = pd.Series(data_plot.split('|'))
    info = data.value_counts(ascending=False)
    return info
#调用函数来计算每个类型的电影。
df_genre_movies = count_genre('genres')
df_genre_movies = pd.DataFrame(df_genre_movies).reset_index().rename(columns={'index':'Drama', o:'Columns}).
```

```
In [31]: #条形图代码
#这里我们通过导入 faker 库为不同的条使用颜色。
from cutecharts.faker import Faker

chart = ctc.Bar('Top Movie Geners', width='600px', height='200px')
chart.set_options(labels=list(df_genre_movies['Drama'][:7]),
x_label='Drama',
y_label='Count',
colors=Faker.colors
)
chart.add_series('Geners',list(df_genre_movies['Count'][:7]))
chart.render_notebook()
```

Out[31]:

Top Movie Geners



```
In [33]: #这里我们在可以明确为条形设置不同颜色的地方添加了另一个参数颜色set_options()
chart = ctc.Bar('Top Movie Geners', width='600px', height='200px')

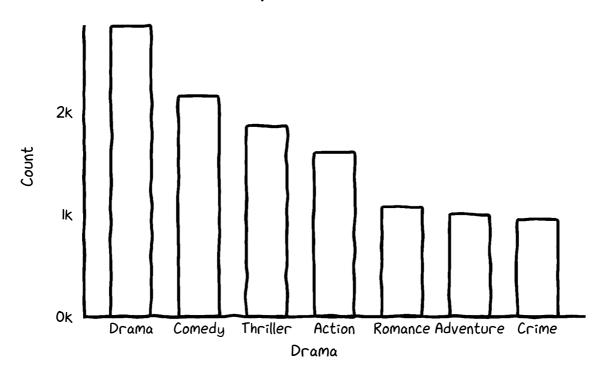
chart.set_options(labels=list(df_genre_movies['Drama'][:7]),
    x_label='Drama',
    y_label='Count',

colors=['#FFF1C9', '#F7B7A3', '#EA5F89', '#9B3192', '#57167E', '#47B39C', '#00529B'])

chart.add_series('Geners', list(df_genre_movies['Count'][:7]))
    chart.render_notebook()
```

Out[33]:

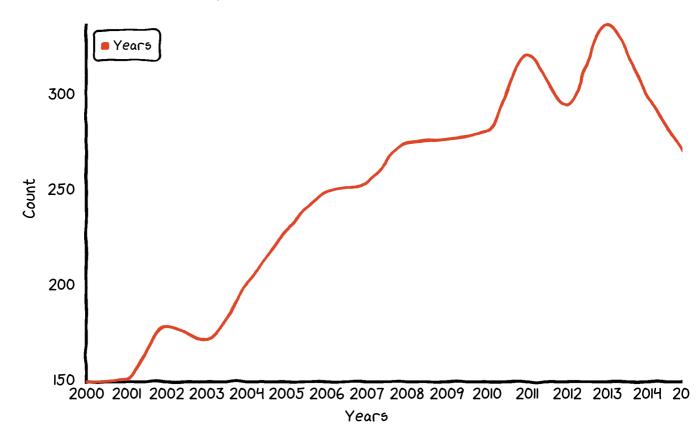
Top Movie Geners



```
In [34]: #绘制折线图
#我们将计算多年来发行的电影数量,并仅绘制 20 年代的电影。
data = df.groupby('release_year').count()['id'].reset_index().tail(16)
```

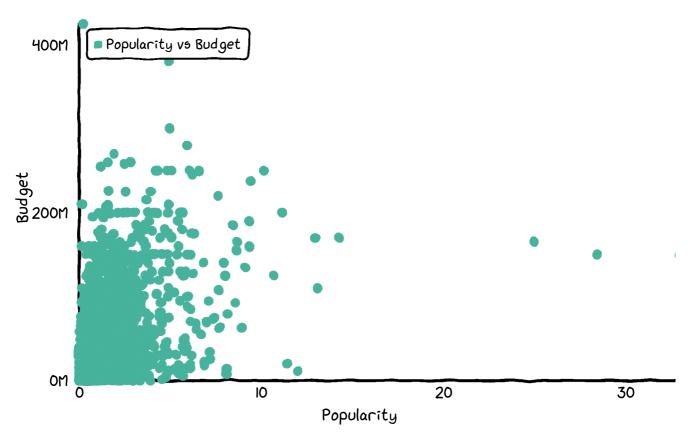
Out[35]:

Impact of Movie over the years of 20's



Out[36]:

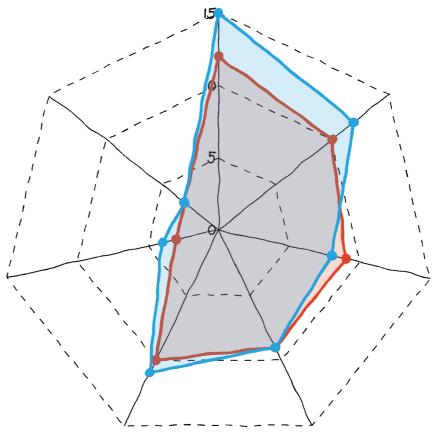
Helps to gain insights like if movies with higher budget have high popularity



```
In [38]: chart = ctc.Radar('Cups of coffee consumed per day')
chart.set_options(
    labels=list(df_coffee['Day']),
    is_show_legend=True,
    legend_pos='upRight'
    )
chart.add_series('This Week', list(df_coffee['This week']))
chart.add_series('Last Week', list(df_coffee['Last week']))
chart.render_notebook()
```

Out[38]:

Cups of coffee consumed per day



In []: