In [282]:

Task 1

import pandas as pd

movie_country_df.head()

```
netflix = pd.read_csv(r'netflix_data.csv')
               #the data frame for movies only
               netflix_df_movies_only = netflix.query('type == "Movie"')
               #printing movies only with selected titles
               netflix_movies_col_subset = netflix_df_movies_only[['title','country','gen
               netflix_movies_col_subset.head()
   Out[282]:
                            country
                   title
                                          genre release_year duration
                   7:19
                                                       2016
                             Mexico
                                         Dramas
                                                                 93
                2 23:59
                                                       2011
                           Singapore Horror Movies
                                                                 78
                3
                     9 United States
                                          Action
                                                       2009
                                                                 80
                        United States
                                         Dramas
                                                       2008
                                                                123
                6
                    122
                              Egypt Horror Movies
                                                       2019
                                                                 95
In [287]:
            #data frame for Movies only and country USA
               netflix_df_country = netflix_movies_col_subset.query('country == "United S'
               movie_country_df = netflix_df_country[['title','country','genre','release_
```

Out[287]:

	title	country	genre	release_year	duration
3	9	United States	Action	2009	80
4	21	United States	Dramas	2008	123
7	187	United States	Dramas	1997	119
10	1922	United States	Dramas	2017	103
14	3022	United States	Independent Movies	2019	91

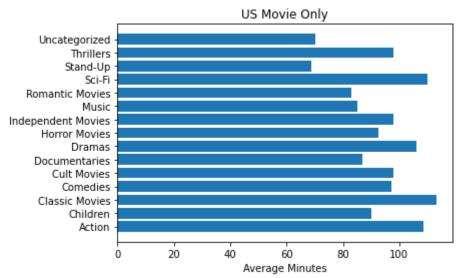
Task 2

```
long_genre = over50_movie_country.groupby('genre').mean()
        #long_genre = long_1[['genre', 'release_year', 'duration']]
         long_genre
```

Out[289]:

release_year	duration	
2008.889344	108.709016	
2011.111111	90.076923	
1971.648649	113.270270	
2012.384615	97.113846	
1990.111111	97.888889	
2016.162465	86.859944	
2012.927614	105.924933	
2014.463636	92.690909	
2016.000000	98.000000	
2016.600000	85.000000	
2017.500000	83.000000	
2011.833333	109.833333	
2015.046154	68.656410	
2013.300000	97.775000	
2014.250000	70.125000	
	2008.889344 2011.111111 1971.648649 2012.384615 1990.111111 2016.162465 2012.927614 2014.463636 2016.000000 2016.600000 2017.500000 2011.833333 2015.046154 2013.300000	

Task 3



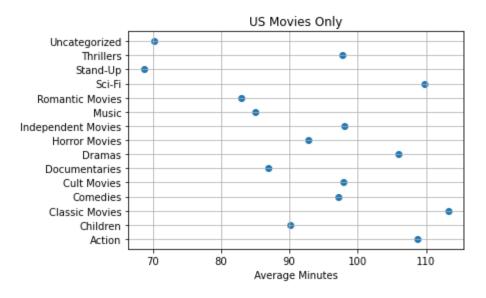
Task 4

```
import matplotlib.pyplot as plt
%matplotlib inline

y = long_genre.index
x = long_genre ['duration']

plt.title("US Movies Only")
plt.xlabel("Average Minutes")
plt.grid()
plt.scatter(x,y)
```

Out[288]: <matplotlib.collections.PathCollection at 0x2764f9a1550>



Task 5

Out[279]:

	title	country	genre	release_year	duration
0	3%	Brazil	International TV	2020	4
1	7:19	Mexico	Dramas	2016	93
5	46	Turkey	International TV	2016	1
6	122	Egypt	Horror Movies	2019	95
8	706	India	Horror Movies	2019	118
7779	Zona Rosa	Mexico	International TV	2019	1
7780	Zoo	India	Dramas	2018	94
7784	Zulu Man in Japan	NaN	Documentaries	2019	44
7785	Zumbo's Just Desserts	Australia	International TV	2019	1
7786	ZZ TOP: THAT LITTLE OL' BAND FROM TEXAS	United Kingdom	Documentaries	2019	90

4879 rows × 5 columns

Task 6

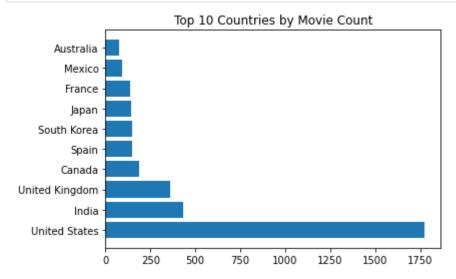
Out[280]:

	title	genre	release_year	duration
country				
Argentina	55	55	55	55
Australia	74	74	74	74
Austria	7	7	7	7
Bangladesh	2	2	2	2
Belarus	1	1	1	1
United States	1776	1776	1776	1776
Uruguay	8	8	8	8
Venezuela	1	1	1	1
Vietnam	3	3	3	3
Zimbabwe	1	1	1	1

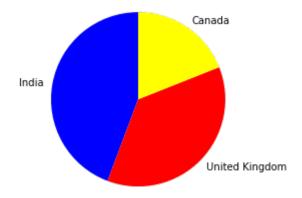
78 rows × 4 columns

Task 7

```
iask i
```



Task 8

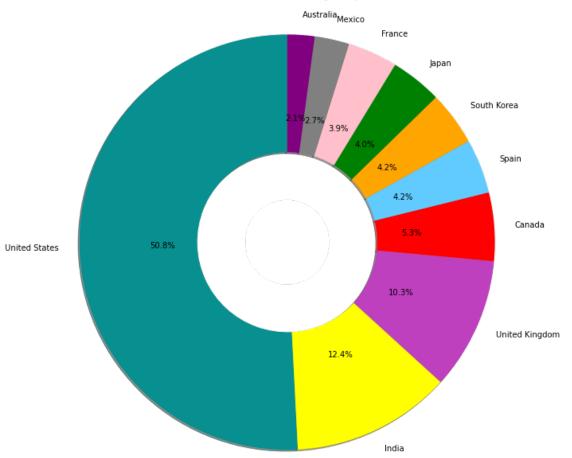


Task 9

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```
In [291]:
           M
              import numpy as np
              plt.pie(only_10country.values,
                                           labels = only_10country.keys(),
                                               textprops={'fontsize':10},
                                       autopct=('%1.1f%%'),
                                       colors=['#088F8F','yellow','#BF40BF', 'red','#61cb
                                       radius=3,
                                       shadow=True,
                                       wedgeprops = {'width': 1.7},
                                       startangle = 90)
              circle = plt.Circle((0,0),0.6, color = 'white')
              p = plt.gcf()
              p.gca().add_artist(circle)
              plt.title("Number of titles released by top 10 countries",fontdict={"fonts"
                  pad=200)
              plt.show()
```

Number of titles released by top 10 countries



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