

In (15):	df.dropna()	df.shape										
Out(15):	(3774, 12)											
In (16):	df.head(10)											
Out(16):	show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in	description
0	81145628	Movie	Norm of the North: King Sized Adventure	Richard Finn, Tim Matlby	Alan Marriott, Andrew Toth, Brian Dobson, Cole...	United States, India, South Korea, China	September 9, 2019	2019	TV-PG	90 min	Children & Family Movies, Comedies	Before planning an awesome wedding for his gra...
4	80125979	Movie	#realityhigh	Fernando Lelirja	Nesta Cooper, Kate Walsh, John Michael Higgins...	United States	September 8, 2017	2017	TV-14	99 min	Comedies	When nerdy high schooler Dani finally attracts...
6	70304989	Movie	Automata	Gabe Ballez	Antonio Banderas, Dylan McDermott, Melanie Lyn...	Bulgarian, United States, Spain, Canada	September 8, 2017	2014	R	110 min	International Movies, Sci-Fi & Fantasy, Thrillers	In a dystopian future, an insurance adjuster f...

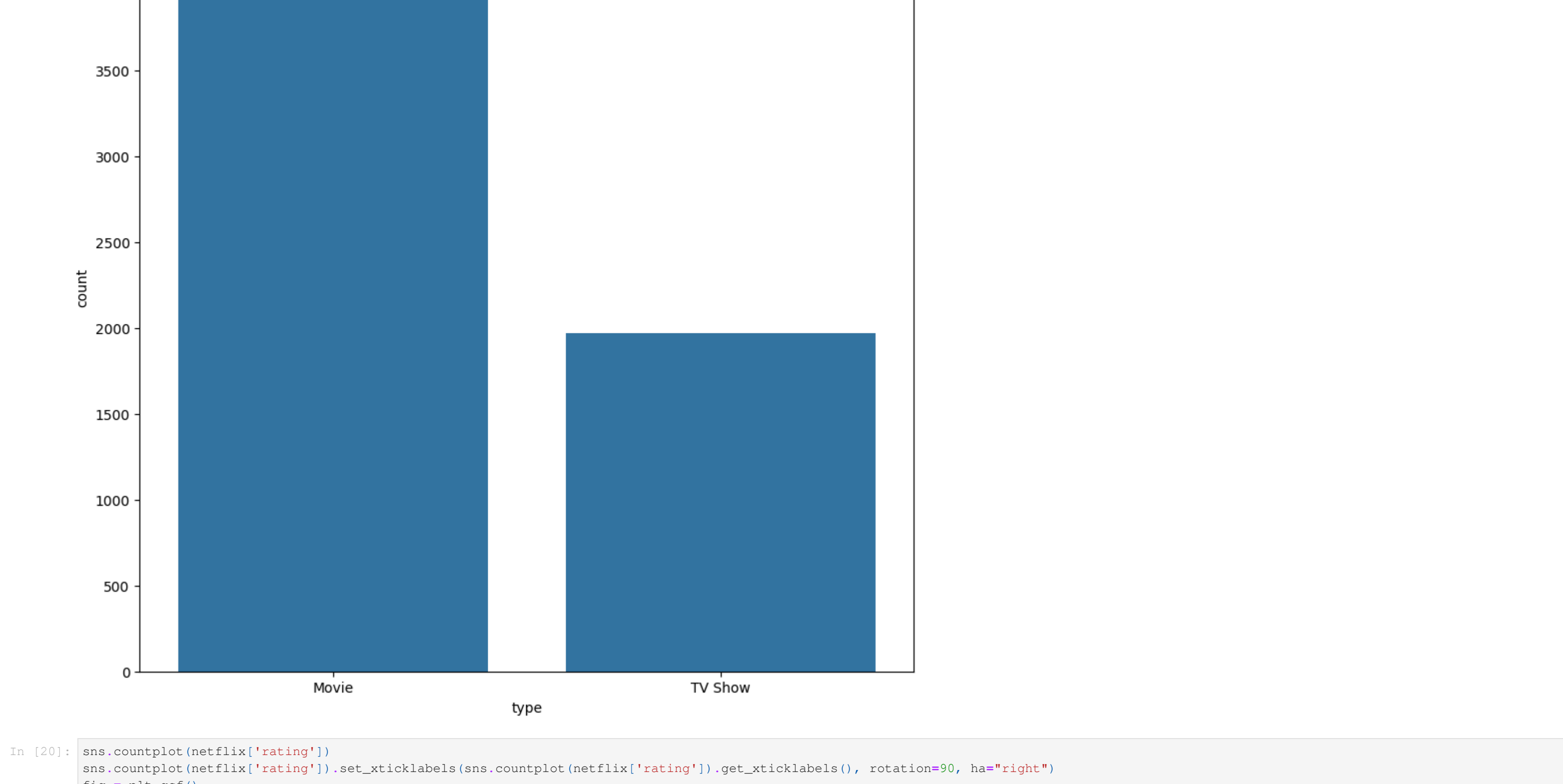
	7	10654077	Movie	Fabrizio Copano: Sakopero en mi	Rodrigo Toro, Francisco Schultz	Fabrizio Copano	Chile	September 8, 2017	2017	TV-MA	60 mn	Stand-Up Comedy	Fabrizio Copano takes audience participation 1...		
	9	70340990	Movie	Good People	Henrik Ruben Ganz	James Franco, Kate Hudson, Tom Wilkinson, Gine...	United States, United Kingdom, Denmark, Sweden	September 8, 2017	2017	R	90 min	Action & Adventure, Thrillers	A struggling couple can't believe their luck w...		
	11	70299004	Movie	Kidnapping Mr. Heinenken	Daniel Aklundson	Jim Sturgess, Sam Worthington, Ryan Reynolds, A...	Netherlands, Belgium, United Kingdom, United S...	September 8, 2017	2015	R	95 min	Action & Adventure, Dramas, International Movies	When beer magnate Alfred "Freddy" Heinenke is ...		
	18	80057969	Movie	Love	Gaspard Noé	Karl Glumac, Kiera Kristin, Anna Mouyok, Ugo ...	France, Belgium	September 8, 2017	2015	NR	135 min	Cut Movies, Dramas, Independent Movies	A man in an unsatisfying marriage relives th...		
	20	80059297	Movie	Manhattan Romance	Tom O'Brien	Tom O'Brien, Katharine Waterston, Caitlin F.Z.	United States	September 8, 2017	2014	TV-14	98 mn	Comedies, Romantic Movies	A filmmaker working on a documentary about lov...		
	21	80046728	Movie	Moonwalkers	Antoine Bardjac-Jacquet	Ron Perlman, Rupert Grint, Robert Sheehan, Ste...	France, Belgium	September 8, 2017	2015	R	96 min	Action & Adventure, Comedies, International Mo...	A brain-damaged war vet. a failing band manager...		
	23	70040968	Movie	Stoneheart's Asylum	Brad Anderson	Katie Beckinsale, Jim Sturgess, David Thewlis...	United States	September 8, 2017	2014	PG-13	113 min	Horror Movies, Thrillers	In 1999, a young doctor arrives at an asylum f...		
In [17]:	<pre>d['date_added'] = pd.to_datetime(d['date_added']).str.strip(), errors='coerce') d['day_added'] = d['date_added'].dt.day d['year_added'] = d['date_added'].dt.year</pre>														
In [18]:	d.head(10)														
Out[18]:		show_id	type	title	director	cast	country	date_added	release_year	rating	duration	listed_in	description	day_added	year_added

0	81145628	Movie	Norm of the North: King Sized Adventure	Richard Finn, Tim Malley	Alan Rickman, Josh, Brian Dobson, Cole	United States, India, South Korea, China	2019-09-09	2019	TV-PG	90 min	Children & Family Movies, Comedies	awesome wedding for his ga...	9	2019
4	80125979	Movie	reallyhigh	Fernando Lelbrja	Nesta Cooper, Kate Walsh, John Michael Higgins	United States	2017-09-06	2017	TV-14	99 min	Comedies	When nerdy high schooler Dani finally attracts...	8	2017
6	70304989	Movie	Automata	Gabe Buffet	Antonio Banderas, Dylan McDermott, Melanie Lynskey	Bulgaria, United States, Spain, Canada	2017-09-06	2014	R	110 min	International Movies, Sci-Fi & Fantasy, Thrillers	In a dystopian future, an insurance adjuster l...	8	2017

Year	IMDb ID	Genre	Director	Cast	Country	Release Date	Runtime	Language	Plot Summary	IMDb Rating	Notes			
7	80164077	Movie	Fabrizio Capano: <i>Solo piano en mi</i>	Rodrigo Toro, Francisco Schultz	Fabrizio Capano	Chile	2017-09-08	2017	TV-MA	60 min	Stand-Up Comedy	Fabrizio Capano takes audience participation L...	8	2017
9	70349090	Movie	Good People	Henrik Ruben Østergaard	James Franco, Kate Hudson, Tom Wilkinson, Oscar	United States, United Kingdom, Denmark, Sweden	2017-09-08	2014	R	90 min	Action & Adventure, Thrillers	A struggling couple can't believe their luck w...	8	2017
11	72929004	Movie	Kidnapping Mr. Heineken	Daniel Alfredson	Jim Sturgess, Cam Worthington, Ryan Kwanten, A.L.	Netherlands, Belgium, United Kingdom, United S...	2017-09-08	2015	R	95 min	Action & Adventure, Dramas, International Movies	When hearse "Alfred 'Freddy' Heineken is ...	8	2017
19	60595769	Movie	Love	Gaspard Noé	Karl Glusman, Clara Kristin, Aomi Miyooki, Ugo ...	France, Belgium	2017-09-08	2015	NR	135 min	Cult Movies, Dramas, Independent Movies	A man in an unsatisfying marriage recalls the ...	6	2017
20	80060297	Movie	Marshallan Romance	Tom O'Brien	Tom O'Brien, Katharine Waterston, Cabin Fitz...	United States	2017-09-08	2014	TV-14	98 min	Comedies, Independent Movies, Romantic Movies	A filmmaker working on a documentary about lov...	8	2017
21	80046728	Movie	Moonwalkers	Antoine Bardou-Jacquet	Ron Perlman, Rupert Grint, Robert Sheehan, Ste...	France, Belgium	2017-09-08	2015	R	96 min	Action & Adventure, Comedies, International Mo...	A brain-dead sex vet, a failing band manager...	8	2017
23	70304988	Movie	Stoneheart Asylum	Brad Anderson	Kate Beckinsale, Jim Sturgess, David Thewlis, ...	United States	2017-09-08	2014	PG-13	113 min	Horror Movies, Thriller	In 1899, a young doctor arrives at an asylum L...	8	2017

```
fig = plt.gcf()
fig.set_size_inches(10, 10)
plt.show()
```

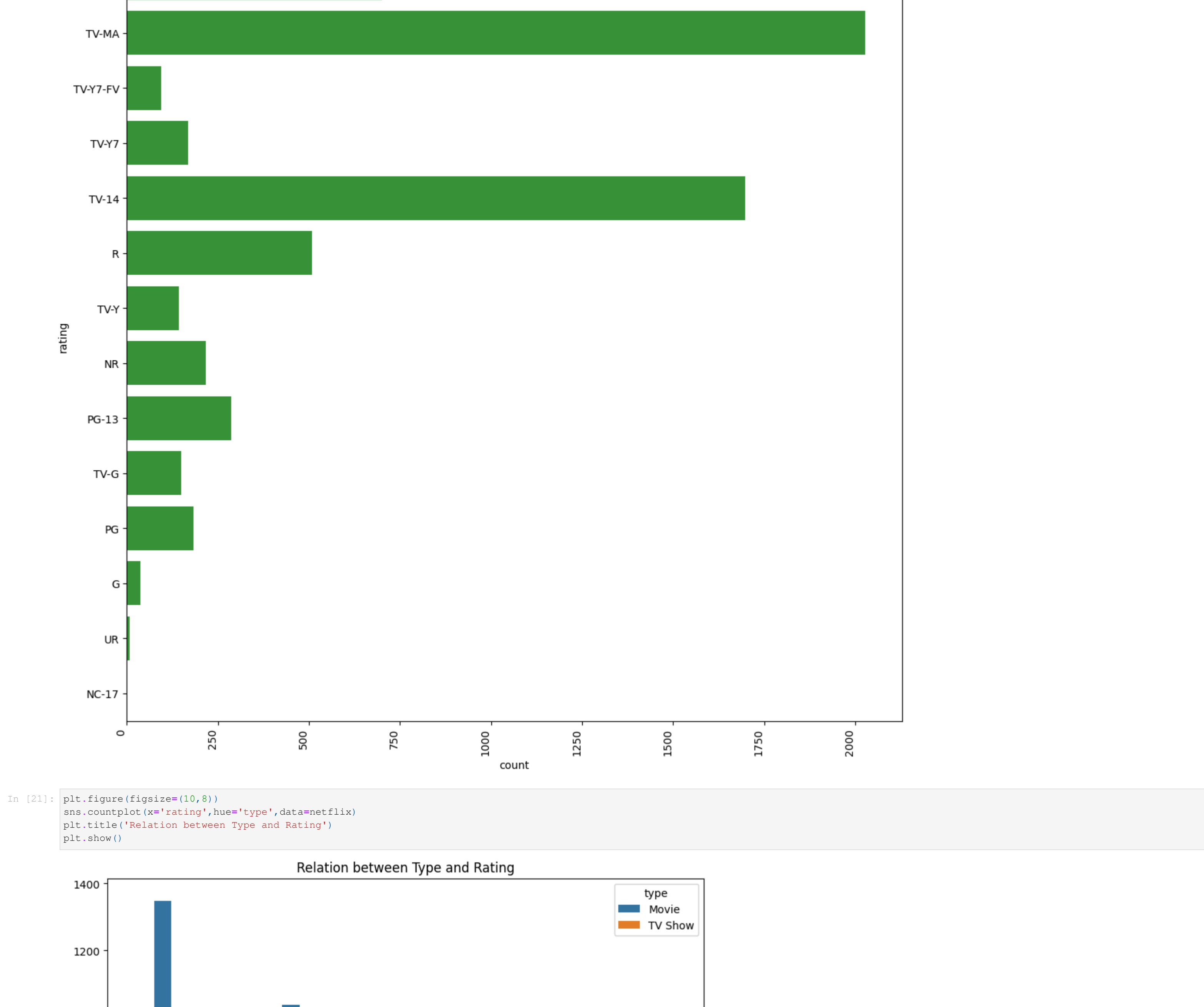
The plot titled "Type" shows a single blue bar on a white background. The y-axis is labeled "4000" and has a tick mark at that value. The bar's height is approximately 4000. The plot area is enclosed in a black rectangular frame.



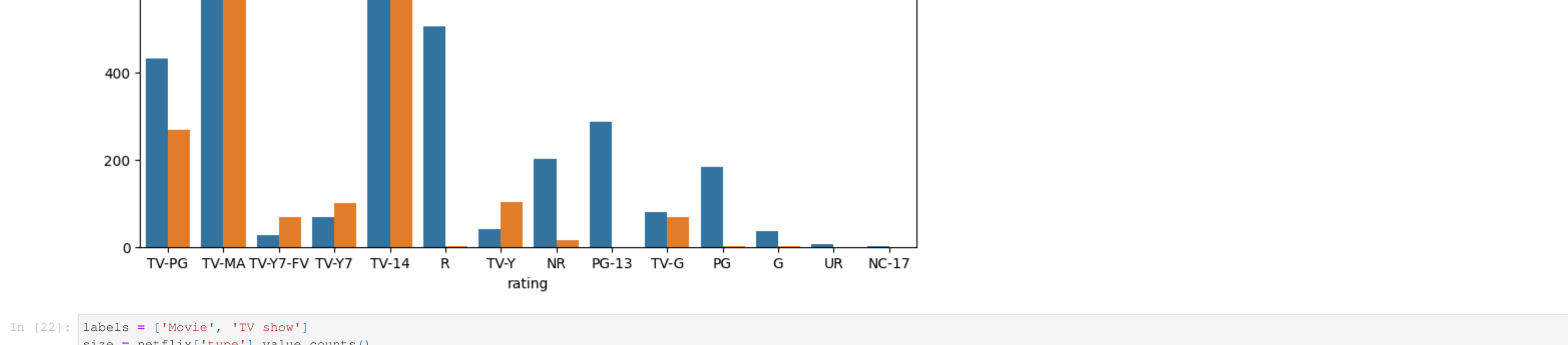
```
fig.set_size_inches(13,13)
plt.title("Rating")

C:\Users\Sachin\Anaconda\Local\Temp\ipykernel_7780\243977801.py:2: UserWarning: set_ticklabels() should only be used with a fixed number of ticks, i.e. after set_ticks() or using a FixedLocator.
  ans.complot(metafix["rating"],set_ticklabels(ans.complot(metafix["rating"]).get_ticklabels(), rotation=90, ha="right"))

Out[102]: Text(0.5, 1.0, "Rating")
```



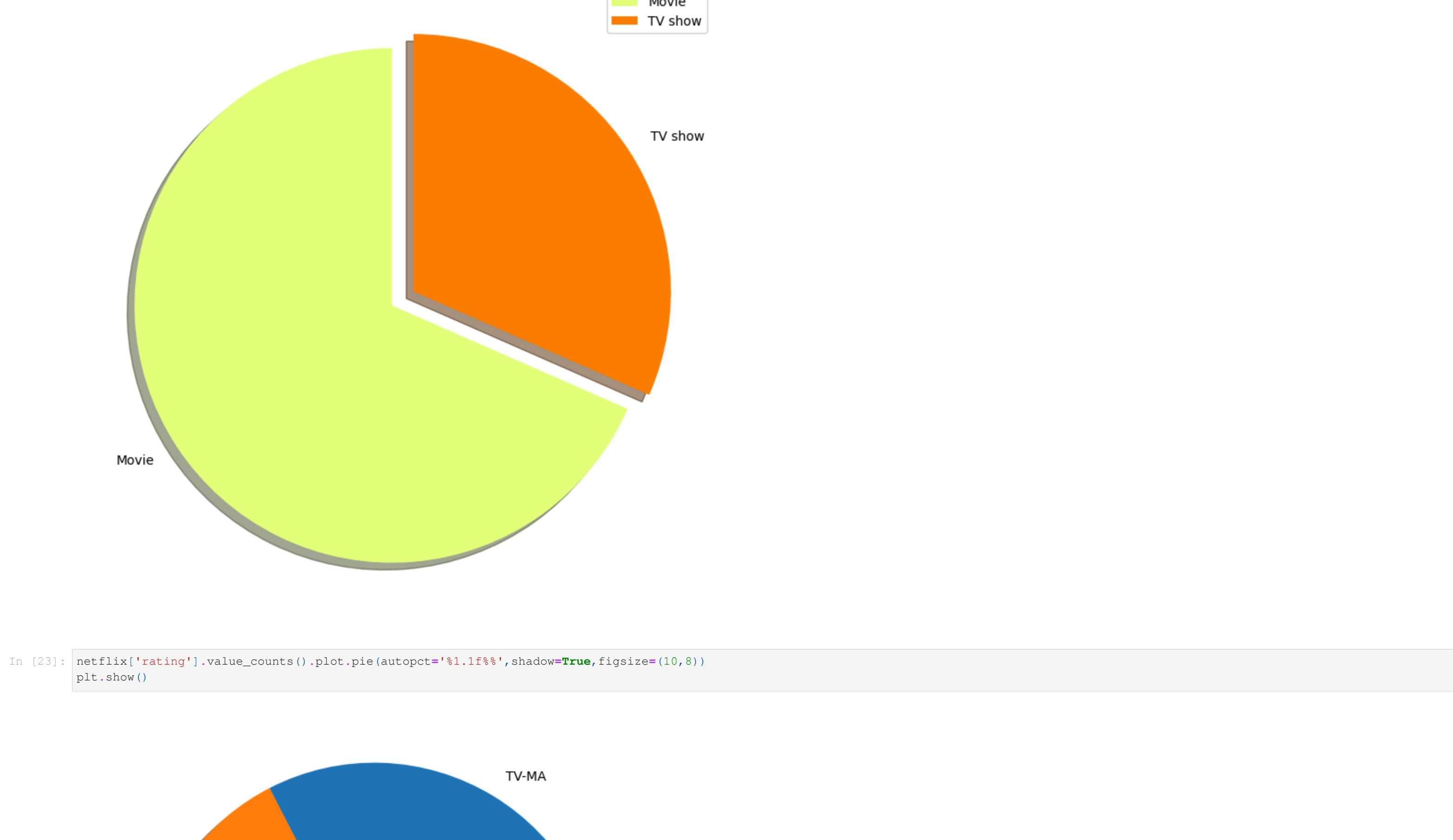
Category	no (count)	yes (count)
noisy	~1000	~680
not noisy	~1000	~670



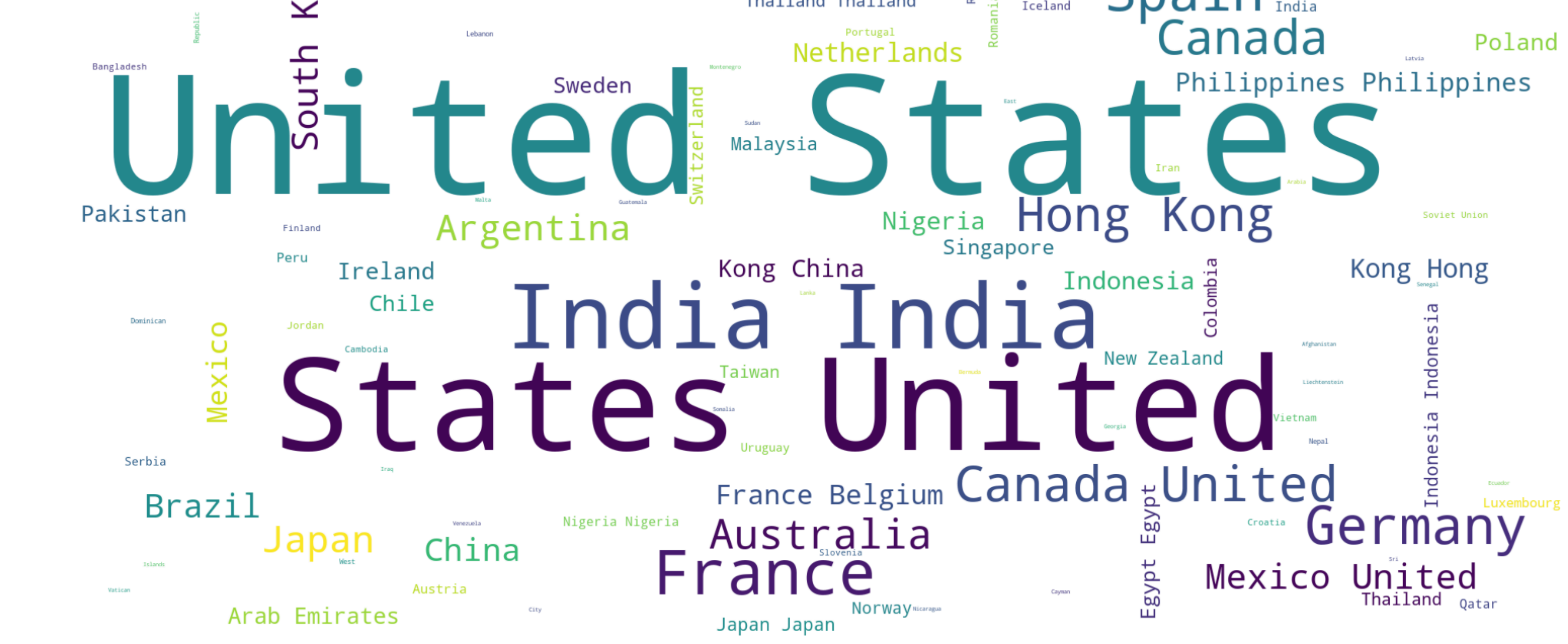
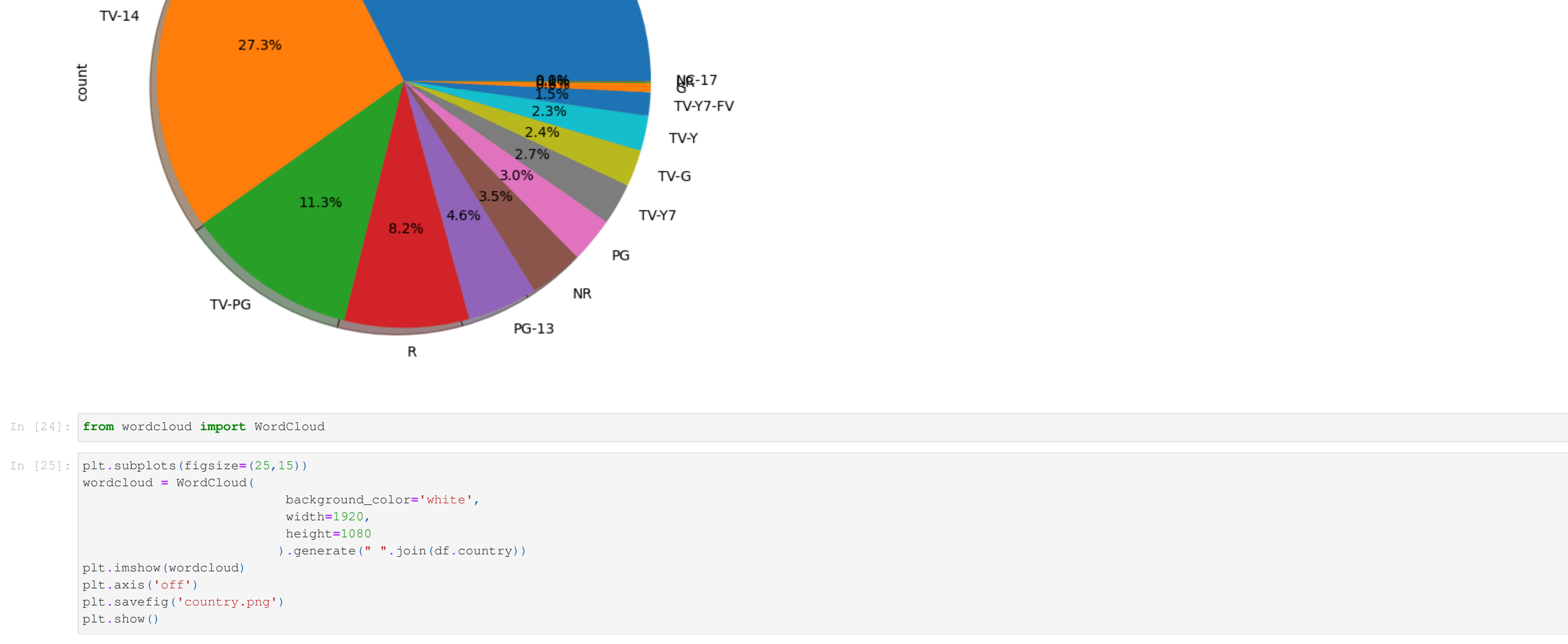
```

colors = plt.cm.Winter(np.linspace(0, 1, 2))
explode = [0, 0.1]
plt.rcParams['figure.figsize'] = (9, 9)
plt.pie(size, labels=labels, colors = colors, explode = explode, shadow = True, startangle = 90)
plt.title('Distribution of Type', fontsize = 25)
plt.legend()
plt.show()

```

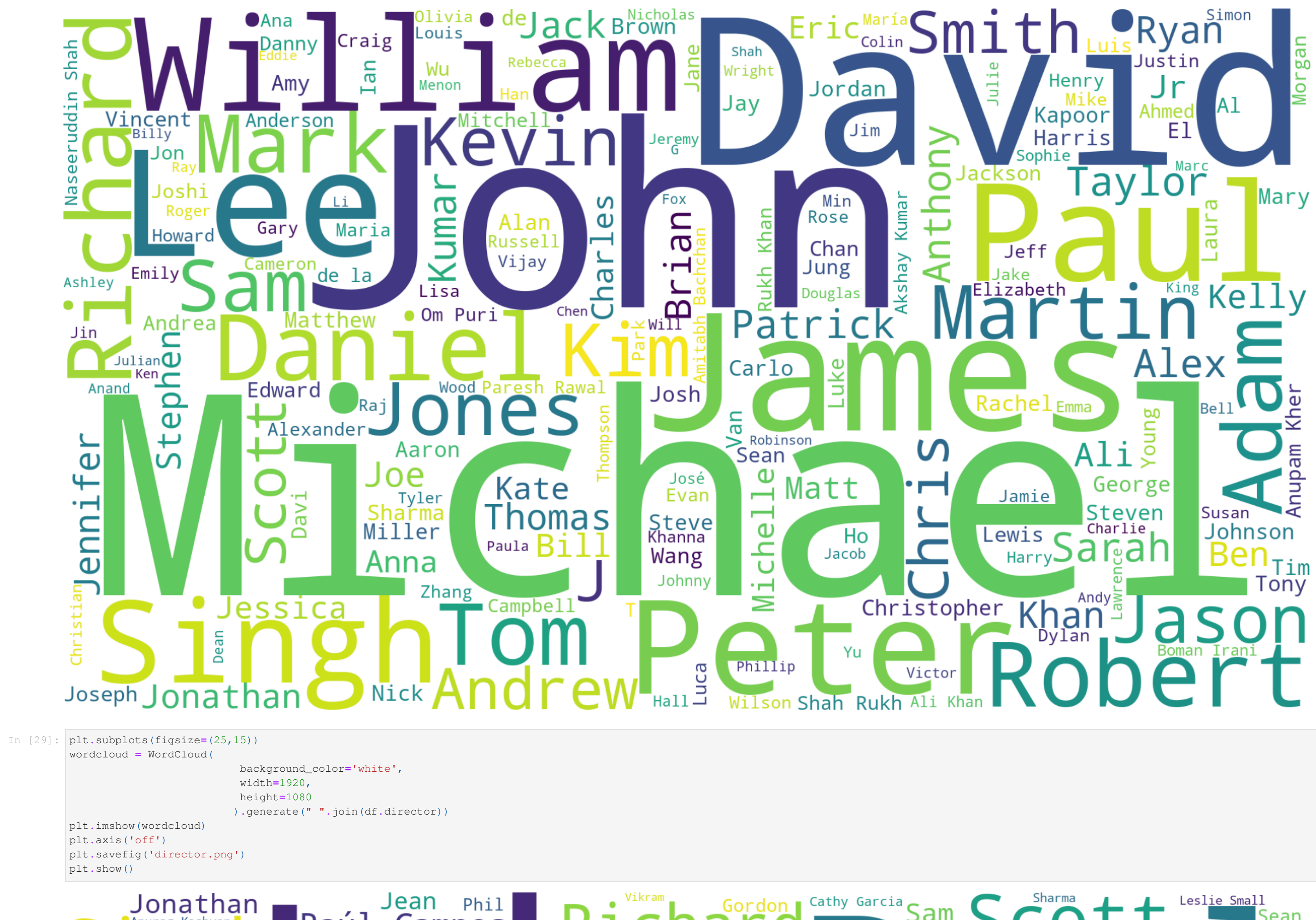


Frequency	Percentage
Often	32.6%
Sometimes	67.4%



```
In [24]: plt.subplots(figsize=(25,15))
wordcloud = WordCloud(
    background_color='white',
    width=1500,
    height=1100
).generate(" ".join(df.cast))

plt.imshow(wordcloud)
plt.axis('off')
plt.savefig('cast.png')
plt.show()
```



A word cloud visualization showing names of people associated with the movie industry. The names are arranged in a circular pattern around a central point. The names include: Singh, Jon, Tim, Sanjay, Martin, Ghosh, Kelly, Oliver, Eric, Steve, Al, Noah, Baumbach, Kim, Ryan, David, Luke, Max, Yilmaz, Erdogan, Pablo, Diego, Steven Spielberg, Joe, Jav, Karas, Tiwari, Jay, Jesse, V, Priyadarshan, Zoya Akhtar, Scott, Moore, Richard, Campos, Kunte Arolyam, WOO Jeffco, Hakan Altun, Tarantino, Rami Malek, and Rajanmouli.



