

```
In [ ]: import pandas as pd
import matplotlib.pyplot as plt
import numpy as np

df = pd.read_csv('/Users/crisyuriok/Library/CloudStorage/OneDrive-Persona
                sep = ',',
                decimal=',',
                encoding='utf-8')

print(df.head())
print(df.shape)
print(df.columns)
display(df.dtypes)
```

	show_id	type	title \
0	s1	Movie	Duck the Halls: A Mickey Mouse Christmas Special
1	s2	Movie	Ernest Saves Christmas
2	s3	Movie	Ice Age: A Mammoth Christmas
3	s4	Movie	The Queen Family Singalong
4	s5	TV Show	The Beatles: Get Back

	director \
0	Alonso Ramirez Ramos, Dave Wasson
1	John Cherry
2	Karen Disher
3	Hamish Hamilton
4	NaN

	cast	country \
0	Chris Diamantopoulos, Tony Anselmo, Tress MacN...	NaN
1	Jim Varney, Noelle Parker, Douglas Seale	NaN
2	Raymond Albert Romano, John Leguizamo, Denis L...	United States
3	Darren Criss, Adam Lambert, Derek Hough, Alexa...	NaN
4	John Lennon, Paul McCartney, George Harrison, ...	NaN

	date_added	release_year	rating	duration \
0	November 26, 2021	2016	TV-G	23 min
1	November 26, 2021	1988	PG	91 min
2	November 26, 2021	2011	TV-G	23 min
3	November 26, 2021	2021	TV-PG	41 min
4	November 25, 2021	2021	NaN	1 Season

	listed_in \
0	Animation, Family
1	Comedy
2	Animation, Comedy, Family
3	Musical
4	Docuseries, Historical, Music

	description
0	Join Mickey and the gang as they duck the halls!
1	Santa Claus passes his magic bag to a new St. ...
2	Sid the Sloth is on Santa's naughty list.
3	This is real life, not just fantasy!
4	A three-part documentary from Peter Jackson ca...

(1450, 12)

Index(['show_id', 'type', 'title', 'director', 'cast', 'country', 'date_ad
ded',

'release_year', 'rating', 'duration', 'listed_in', 'description'],
dtype='object')

show_id	object
type	object
title	object
director	object
cast	object
country	object
date_added	object
release_year	int64
rating	object
duration	object
listed_in	object
description	object
dtype:	object

```
In [ ]: import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
import matplotlib.pyplot as plt

# Criação do gráfico de barras
categorias = df['listed_in'].value_counts()

plt.figure(figsize=(14,80))
plt.barh(categorias.index, categorias.values)

# Dados no eixo x
plt.yticks(df['listed_in'])

# Nome do eixo Y
plt.ylabel('Categoria')

# Nome do eixo X
plt.xlabel('Contagem')

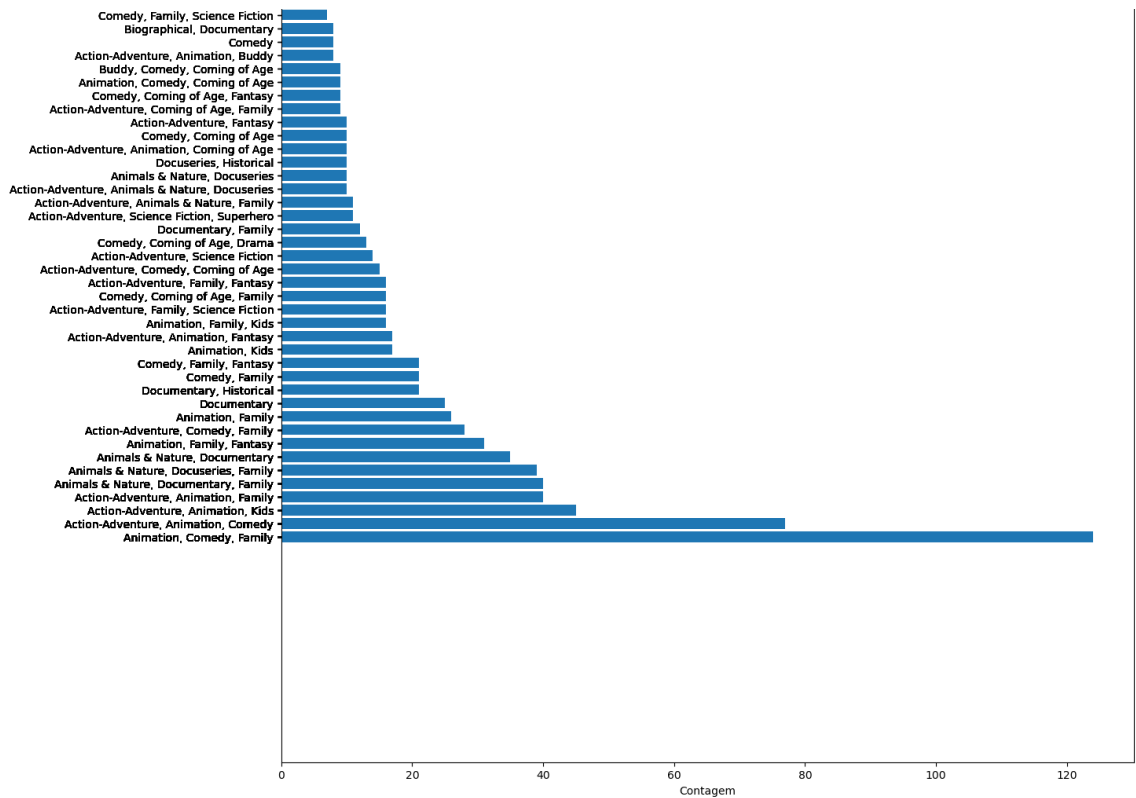
# Título do gráfico
plt.title('Categorias')

# Apresentação da figura
plt.show()
```

Action-Adventure, Animals & Nature, Animation
Buddy, Docuseries
Comedy, Family, Lifestyle
Dance, Music, Musical
Animals & Nature, Family, Reality
Docuseries, Kids
Comedy, Parody, Science Fiction
Docuseries, Historical, Reality
Drama, Romance
Animals & Nature, Documentary, Survival
Action-Adventure, Crime, Science Fiction
Biographical, Drama, Music
Animals & Nature, Kids, Music
Drama, Music, Romance
Fantasy, Variety
Action-Adventure, Fantasy, Musical
Action-Adventure, Docuseries, Fantasy
Family, Game Show / Competition, Reality
Drama, Fantasy, Mystery
Anthology, Documentary
Comedy, Family, Variety
Documentary, Music
Biographical, Historical, Musical
Animation, Documentary, Family
Action-Adventure, Crime, Fantasy
Action-Adventure, Documentary, Historical
Coming of Age, Documentary, Drama
Docuseries, Science Fiction
Animals & Nature, Family, Sports
Biographical, Comedy, Family
Coming of Age, Drama, Science Fiction
Animation, Family, Romance
Buddy, Comedy, Drama
Comedy, Fantasy, Romance
Docuseries, Family, Lifestyle
Action-Adventure, Disaster, Drama
Animation, Family, Historical
Animals & Nature, Family
Concert Film, Music, Musical
Docuseries, Family, Game Show / Competition
Comedy, Musical, Romance
Animation, Comedy, Crime
Crime, Drama, Mystery
Coming of Age, Fantasy, Mystery
Drama, Family, Historical
Comedy, Coming of Age, Medical
Variety
Buddy, Docuseries, Lifestyle
Family, Fantasy, Mystery
Game Show / Competition, Sports, Variety
Animation, Buddy, Kids
Comedy, Drama
Animation, Kids, Police/Cop
Action-Adventure, Family, Parody
Comedy, Drama, Thriller
Crime, Drama
Animation, Fantasy, Musical
Comedy, Romance, Romantic Comedy
Animation, Anthology, Science Fiction
Talk Show
Animation, Science Fiction
Animals & Nature, Reality
Animation, Crime, Family
Animation, Drama
Coming of Age, Music
Lifestyle
Animals & Nature
Action-Adventure, Superhero
Docuseries, Historical, Music
Musical
Animals & Nature, Docuseries, Medical
Action-Adventure, Buddy, Comedy
Action-Adventure, Docuseries, Reality
Comedy, Sports
Buddy, Comedy, Docuseries
Action-Adventure, Buddy, Science Fiction
Comedy, Reality
Animals & Nature, Comedy
Action-Adventure, Fantasy, Survival
Action-Adventure, Biographical, Drama
Biographical, Coming of Age, Drama
Family, Kids
Animals & Nature, Anthology
Musical, Romance, Western
Anthology, Science Fiction
Animation, Comedy, Parody
Action-Adventure, Family, Game Show / Competition
Animals & Nature, Animation, Kids
Animation, Superhero
Animation, Dance, Family
Action-Adventure, Drama, Historical
Action-Adventure, Docuseries, Lifestyle
Action-Adventure, Comedy, Spy/Espionage
Biographical, Coming of Age, Family
Action-Adventure, Reality, Survival
Comedy, Docuseries, Family
Concert Film, Family, Fantasy
Comedy, Variety
Animals & Nature, Animation, Family
Comedy, Crime, Fantasy
Anthology, Comedy, Kids
Action-Adventure, Documentary
Action-Adventure, Documentary, Superhero
Action-Adventure, Coming of Age
Animals & Nature, Documentary, Medical
Coming of Age, Family, Musical
Coming of Age, Musical
Coming of Age, Musical, Romance
Comedy, Family, Romantic Comedy
Animation, Family, Music
Coming of Age, Dance, Drama
Drama, Mystery
Action-Adventure, Coming of Age, Fantasy
Action-Adventure, Documentary, Sports
Drama, Parody, Science Fiction
Music, Reality
Action-Adventure, Crime, Family
Comedy, Coming of Age, Sports
Action-Adventure, Animals & Nature, Comedy
Animals & Nature, Docuseries, Travel
Kids
Animals & Nature, Coming of Age, Family
Biographical, Family, Historical
Action-Adventure, Drama, Family
Animation, Drama, Fantasy
Action-Adventure, Comedy
Buddy, Comedy, Romance
Comedy, Music
Comedy, Crime, Science Fiction
Crime, Drama, Family
Action-Adventure, Family, Western
Animation, Anthology, Kids
Action-Adventure, Science Fiction, Thriller
Buddy, Coming of Age, Family
Action-Adventure, Western
Action-Adventure, Family, Musical

Categoria

Action-Adventure, Family, Survival
Fantasy, Kids, Mystery
Action-Adventure, Family, Mystery
Animation, Buddy, Family
Buddy, Family, Sports
Family, Fantasy
Anthology, Comedy, Family
Docuseries, Family, Medical
Coming of Age, Dance, Sports
Biographical, Comedy, Drama
Animation, Anthology, Fantasy
Coming of Age, Musical, Science Fiction
Comedy, Mystery
Animation, Drama, Kids
Documentary, Family, Reality
Buddy, Comedy, Family
Comedy, Family, Game Show / Competition
Sports
Buddy, Coming of Age, Drama
Anthology, Family, Lifestyle
Animation, Family, Mystery
Animation, Kids, Parody
Documentary, Family, Variety
Drama, Family, Musical
Coming of Age, Docuseries, Family
Fantasy, Musical, Thriller
Drama, Family, Mystery
Animation, Comedy, Disaster
Family, Fantasy, Romance
Animation, Kids, Sports
Family, Variety
Animals & Nature, Biographical, Drama
Biographical, Drama, Historical
Comedy, Family, Western
Animation, Kids, Medical
Animation, Comedy, Fantasy
Comedy, Coming of Age, Romance
Coming of Age, Drama, Musical
Animation, Kids, Western
Fantasy
Buddy, Comedy
Drama, Historical, Sports
Action-Adventure, Mystery, Thriller
Comedy, Coming of Age, Crime
Animals & Nature, Coming of Age, Drama
Action-Adventure, Docuseries, Historical
Animation, Fantasy
Animation, Comedy, Dance
Action-Adventure, Comedy, Crime
Drama, Fantasy
Science Fiction
Coming of Age, Drama, Fantasy
Action-Adventure, Animation, Musical
Biographical, Sports
Biographical, Family, Sports
Animation
Drama, Music
Biographical, Drama, Family
Anthology, Docuseries, Family
Historical, Musical
Kids, Musical
Drama, Historical
Documentary, Sports
Documentary, Family, Historical
Animals & Nature, Kids, Variety
Animation, Kids, Music
Animation, Buddy, Coming of Age
Action-Adventure, Science Fiction, Spy/Espionage
Family, Lifestyle, Reality
Anthology, Comedy, Coming of Age
Coming of Age, Music, Musical
Comedy, Crime, Family
Action-Adventure, Animation, Superhero
Animals & Nature, Comedy, Coming of Age
Coming of Age, Sports
Action-Adventure, Fantasy, Soap Opera / Melodrama
Drama, Sports
Comedy, Family, Musical
Comedy, Drama, Romance
Comedy, Kids
Animals & Nature, Docuseries, Survival
Drama, Family
Family, Music, Variety
Action-Adventure, Family, Historical
Concert Film, Documentary, Music
Animals & Nature, Biographical, Documentary
Comedy, Fantasy, Kids
Animation, Coming of Age, Family
Animation, Drama, Family
Comedy, Family, Romance
Action-Adventure, Family
Coming of Age, Drama, Romance
Fantasy, Musical
Drama
Animals & Nature, Docuseries, Kids
Animation, Anthology, Comedy
Docuseries, Reality
Animation, Comedy, Drama
Movies
Action-Adventure, Docuseries, Family
Action-Adventure, Fantasy, Superhero
Comedy, Science Fiction
Anthology, Docuseries
Series
Animation, Coming of Age, Fantasy
Biographical, Drama
Docuseries, Reality, Survival
Comedy, Drama, Sports
Concert Film, Music
Family, Fantasy, Musical
Comedy, Drama, Family
Action-Adventure, Animation, Anime
Reality
Animation, Family, Parody
Animation, Kids, Musical
Action-Adventure, Coming of Age, Drama
Drama, Family, Fantasy
Biographical, Drama, Sports
Comedy, Family, Music
Animation, Comedy
Animation, Comedy, Kids
Animation, Anthology, Family
Comedy, Family, Kids
Coming of Age, Drama
Animation, Family, Musical
Action-Adventure, Animation
Animation, Family, Sports
Action-Adventure, Comedy, Fantasy
Coming of Age, Drama, Sports
Action-Adventure, Animation, Science Fiction
Coming of Age, Fantasy, Musical
Docuseries
Family, Game Show / Competition
Comedy, Family, Sports
Animals & Nature, Docuseries, Reality
Comedy, Coming of Age, Science Fiction
Biographical, Documentary, Music
Action-Adventure, Comedy, Kids
Action-Adventure, Animation, Anthology
Action-Adventure, Animals & Nature, Drama
Docuseries, Family
Comedy, Coming of Age, Music
Animation, Buddy, Comedy
Coming of Age, Drama, Family
Animals & Nature, Drama, Family
Action-Adventure, Animals & Nature, Documentary
Animation, Fantasy, Kids
Animals & Nature, Comedy, Family
Action-Adventure, Comedy, Science Fiction
Coming of Age, Drama, Music
Comedy, Fantasy
Comedy, Coming of Age, Kids
Coming of Age, Fantasy
Action-Adventure, Fantasy, Science Fiction



```
In [ ]: import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
import matplotlib.pyplot as plt

# Criação do gráfico de barras
content_per_year_type = df.groupby(['release_year', 'type']).size().unstack()
content_per_year_type

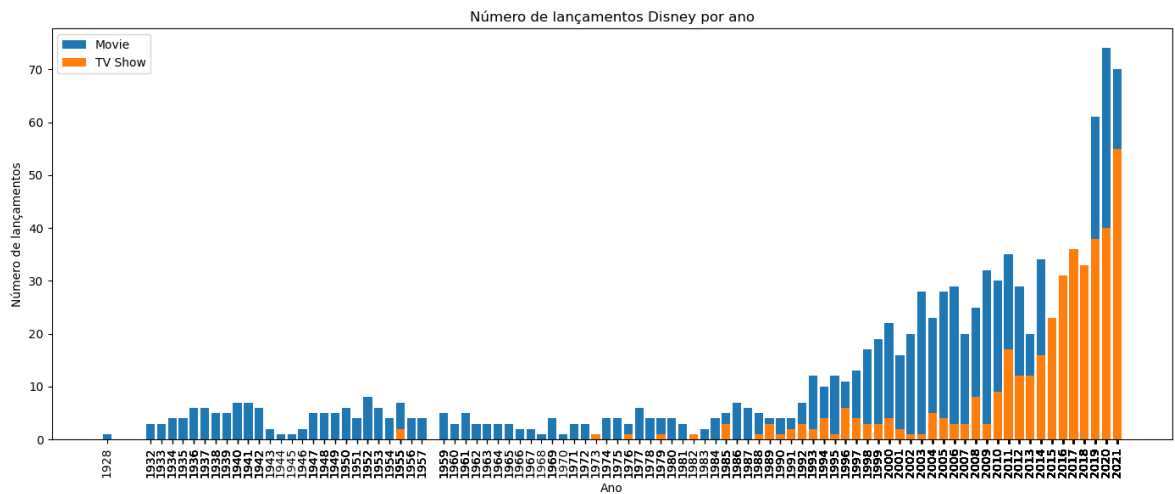
plt.figure(figsize=(14,6))
plt.bar(content_per_year_type['Movie'].index, content_per_year_type['Movie'])
plt.bar(content_per_year_type['TV Show'].index, content_per_year_type['TV Show'])

# Dados no eixo x
plt.xticks(df['release_year'])

# Nome do eixo Y
plt.ylabel('Número de lançamentos')

# Nome do eixo X
plt.xlabel('Ano')

# Título do gráfico
plt.title('Número de lançamentos Disney por ano')
plt.xticks(rotation=90) # Rotate x-axis labels to vertical
plt.tight_layout()
# Apresentação da figura
plt.legend()
plt.show()
```



```
In [ ]: import pandas as pd
import matplotlib.pyplot as plt
import numpy as np

df = pd.read_csv('/Users/crisyuriok/Library/CloudStorage/OneDrive-Personal/
                sep = ',',
                decimal='.',
                encoding='utf-8')

content_rating = df['rating'].value_counts()
labels = df['rating'].value_counts().keys()

fig1, ax1 = plt.subplots(figsize=(6,6))

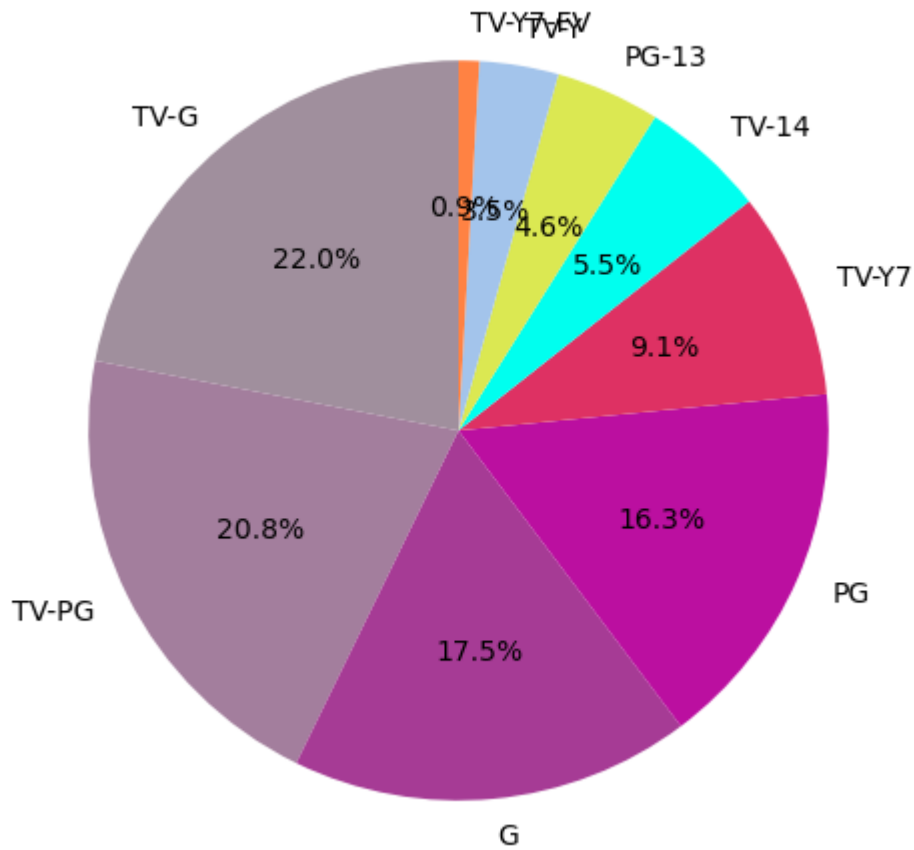
c = ['#A08F9D', '#A37E9D', '#A63B95', '#BB0FA0', '#de3163', '#00ffef', '#f08080']

ax1.pie(content_rating, labels=labels, autopct='%1.1f%%', startangle=90,
        plt.title('Indicação etária')

# plt.legend(('TV-G: General Audience\n', 'TV-PG: Parental Guidance\n', 'G

plt.show()
```

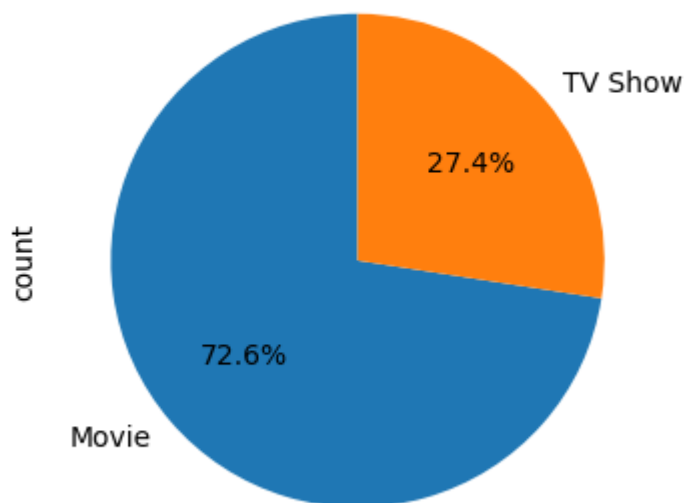
Indicação etária



```
In [ ]: content_type_dist = df['type'].value_counts()

plt.figure(figsize=(4,4))
content_type_dist.plot.pie(autopct='%1.1f%%', startangle=90)
plt.title('Tipos de mídia')
plt.show()
```

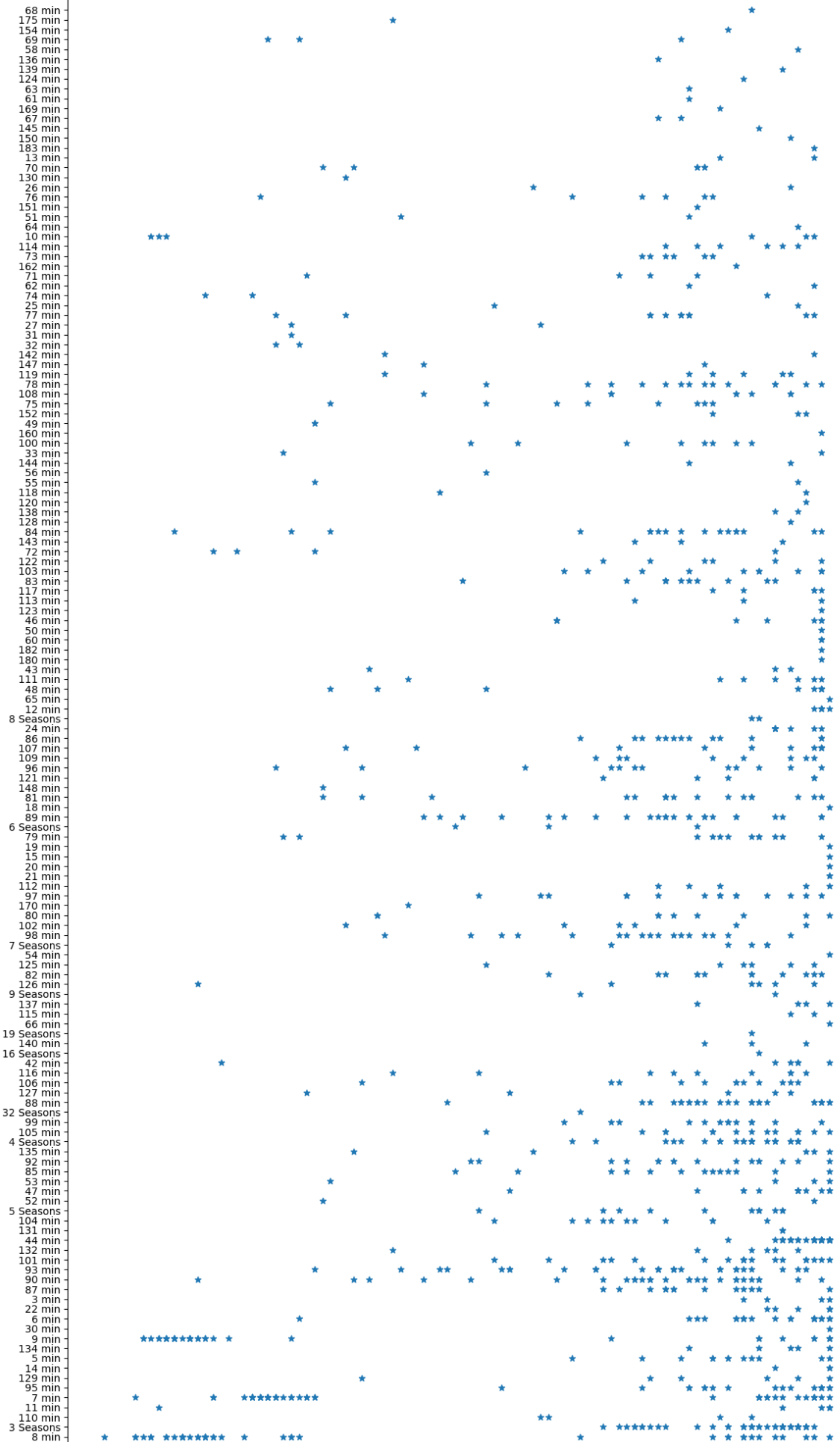
Tipos de mídia

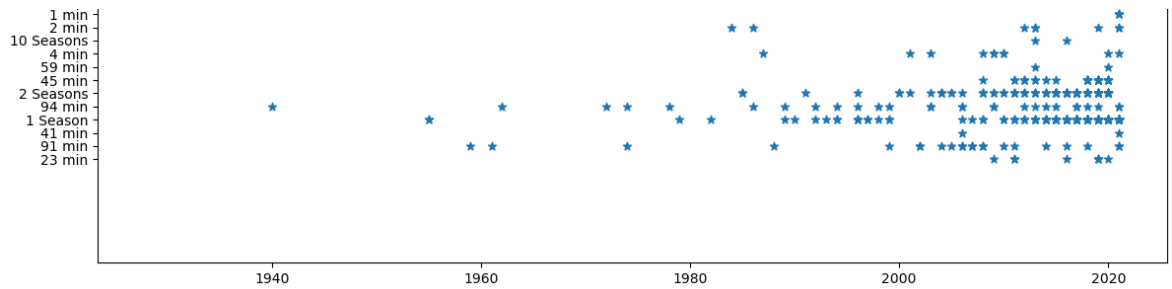



```
In [ ]: x = df['release_year']
y = df['duration']
plt.figure(figsize=(14,30))

plt.scatter(x, y , marker='*')
plt.title('Gráfico de Dispersão entre duração e ano')
plt.show()
```

Gráfico de Dispersão entre duração e ano





```
In [ ]: content_per_year_type = df.groupby(['release_year', 'type']).size().unsta
content_per_year_type

# plt.figure(figsize=(14,6))
# plt.bar(content_per_year_type['Movie'].index, content_per_year_type['Mo
# plt.bar(content_per_year_type['TV Show'].index, content_per_year_type['

plt.figure(figsize=(8,6))
plt.plot(content_per_year_type['Movie'].index, content_per_year_type['Mov
plt.plot(content_per_year_type['TV Show'].index, content_per_year_type['T
plt.title('Lançamentos por ano')
plt.xlabel('Ano')
plt.ylabel('Lançamentos')
plt.legend(content_per_year_type.keys())

plt.show()
```

