In [1]:

```
import pandas as pd
import plotly.express as px
df = pd.read_csv('https://raw.githubusercontent.com/Tomoharuu/VideoGameSalesTest/main/Video_Games_Sales_as_at_22_Dec_2016.csv')
display(df)
```

	Name	Platform	Year_of_Release	Genre	Publisher	NA_Sales	EU_Sale
0	Wii Sports	Wii	2006.0	Sports	Nintendo	41.36	28.9
1	Super Mario Bros.	NES	1985.0	Platform	Nintendo	29.08	3.5
2	Mario Kart Wii	Wii	2008.0	Racing	Nintendo	15.68	12.7
3	Wii Sports Resort	Wii	2009.0	Sports	Nintendo	15.61	10.9
4	Pokemon Red/Pokemon Blue	GB	1996.0	Role-Playing	Nintendo	11.27	8.8
...	...	...	...	...	...	...	.
16714	Samurai Warriors: Sanada Maru	PS3	2016.0	Action	Tecmo Koei	0.00	0.0
16715	LMA Manager 2007	X360	2006.0	Sports	Codemasters	0.00	0.0
16716	Haitaka no Psychedelica	PSV	2016.0	Adventure	Idea Factory	0.00	0.0
16717	Spirits & Spells	GBA	2003.0	Platform	Wanadoo	0.01	0.0
16718	Winning Post 8 2016	PSV	2016.0	Simulation	Tecmo Koei	0.00	0.0

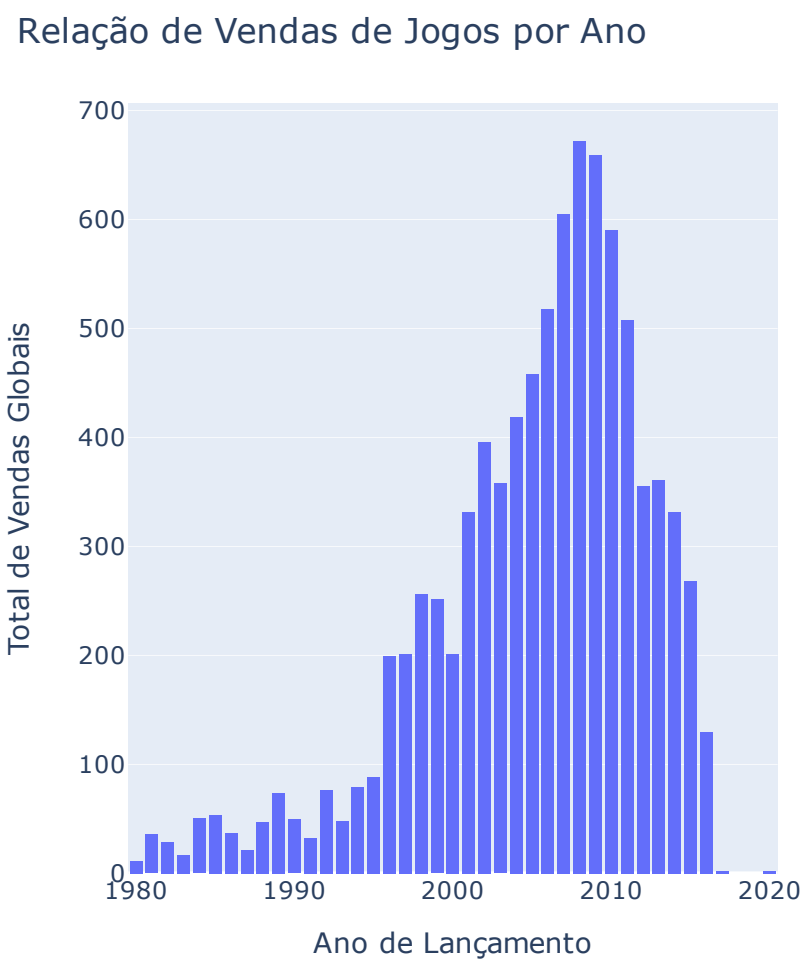
16719 rows × 16 columns

In [2]:

```
# Ao olhar as vendas por ano, se percebe os anos nos quais a venda de jogos de video game estavam em alta
```

In [3]:

```
vendas_ano = px.histogram(df, x='Year_of_Release', y='Global_Sales')
vendas_ano = vendas_ano.update_layout(bargap=0.2, title_text='Relação de Vendas de J
ogos por Ano', yaxis_title_text='Total de Vendas Globais', xaxis_title_text='Ano de
 Lançamento')
vendas_ano.show()
```



In [4]:

```
critica_anual = df['Média Crítica'] = df[['Critic_Score', 'Year_of_Release']].groupb
y('Year_of_Release').mean()
critica_anual = critica_anual.dropna(subset='Critic_Score', how='all')
critica_anual = critica_anual.reset_index()
display(critica_anual)
```

	Year_of_Release	Critic_Score
0	1985.0	59.000000
1	1988.0	64.000000
2	1992.0	85.000000
3	1994.0	69.000000
4	1996.0	89.875000
5	1997.0	85.294118
6	1998.0	81.821429
7	1999.0	75.769231
8	2000.0	69.349650
9	2001.0	71.414110
10	2002.0	69.046252
11	2003.0	70.181197
12	2004.0	69.393939
13	2005.0	68.819847
14	2006.0	67.338710
15	2007.0	66.180636
16	2008.0	65.904895
17	2009.0	67.554531
18	2010.0	67.482000
19	2011.0	68.692000
20	2012.0	72.984424
21	2013.0	71.278388
22	2014.0	71.065134
23	2015.0	72.871111
24	2016.0	73.155172

In [5]:

```
critica_anual = px.histogram(critica_anual, x='Year_of_Release', y="Critic_Score", h
istfunc='avg')
critica_anual.update_layout(bargap=0.1, xaxis_title_text='Ano de Lançamento', yaxis_
title_text='Média da Crítica', title_text='Média de Notas da Crítica por Ano')
critica_anual.show()
```