



SHREYA PANDEY

# Modern Treasures

Data-Driven Insights into the Museum's Art  
Collection

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# Dataset Overview

- Constituent ID, Title, Artist, Medium, Dimensions
- Gender, Nationality, Classification, Department
- Date of Creation, Date Acquired



# Data Transformation in SQL



**Trimmed**

Standardized fields (Gender,  
Nationality, Medium)

**Split**

ConstituentID to normalize multi-artist  
entries

**Extracted and  
Transformed**

Year & Month fields from Date  
Acquired

# Dashboard Structure

Power BI Dashboard Layout



## Page 1 - Museum Overview

- KPIs & Yearly Trends
- Acquisition Timeline by Period
- Classification & Nationality Analysis
- Most Featured Artist

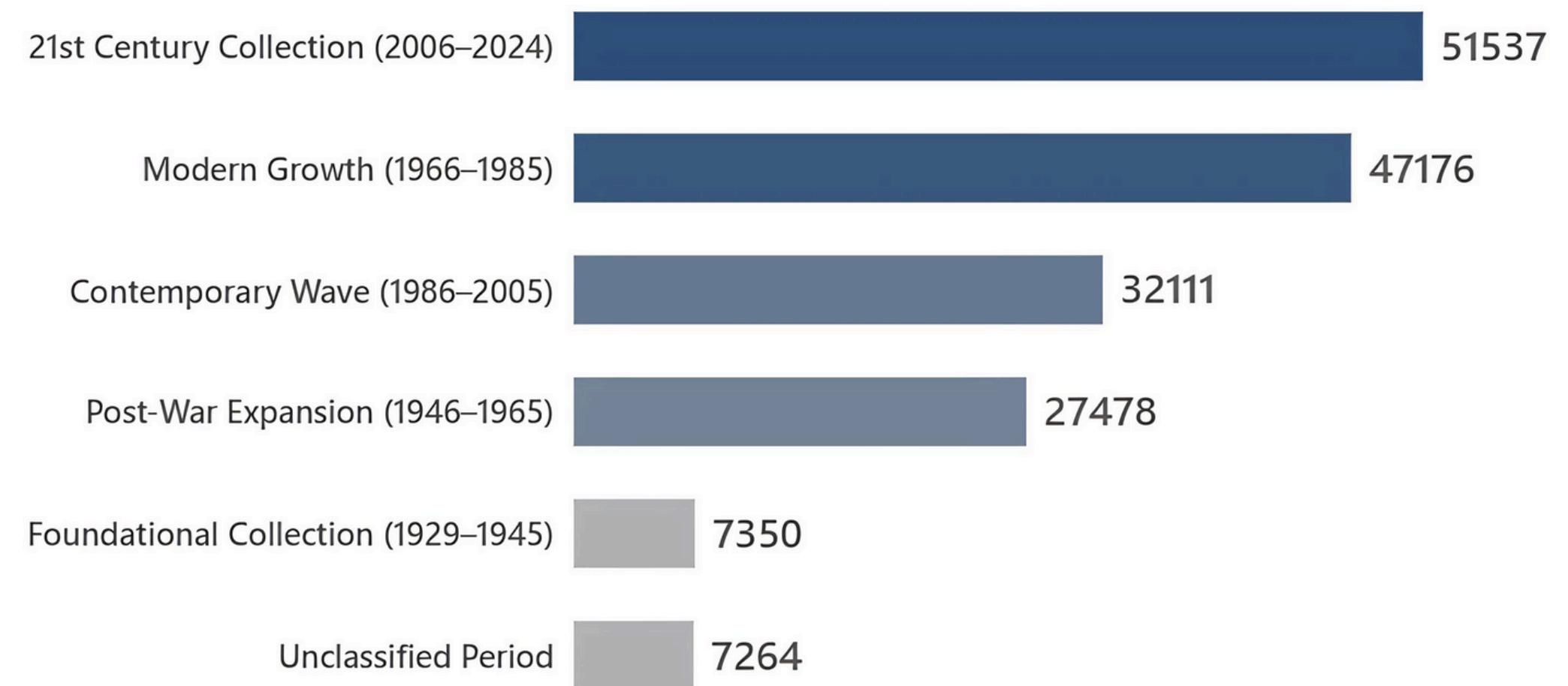


## Page 2 - Artists & Department Explorer

- Interactive Artist Profile
- Top Artist per Department
- Total Artworks by Year & Department

# How Modern Is the Collection?

## Artwork Acquisition Trends



Over 80% of the Artworks were acquired after 1965

Majority Artworks added in the 21<sup>st</sup> Century (2006-2024)

It shows a strong focus on Modern & Contemporary Artworks

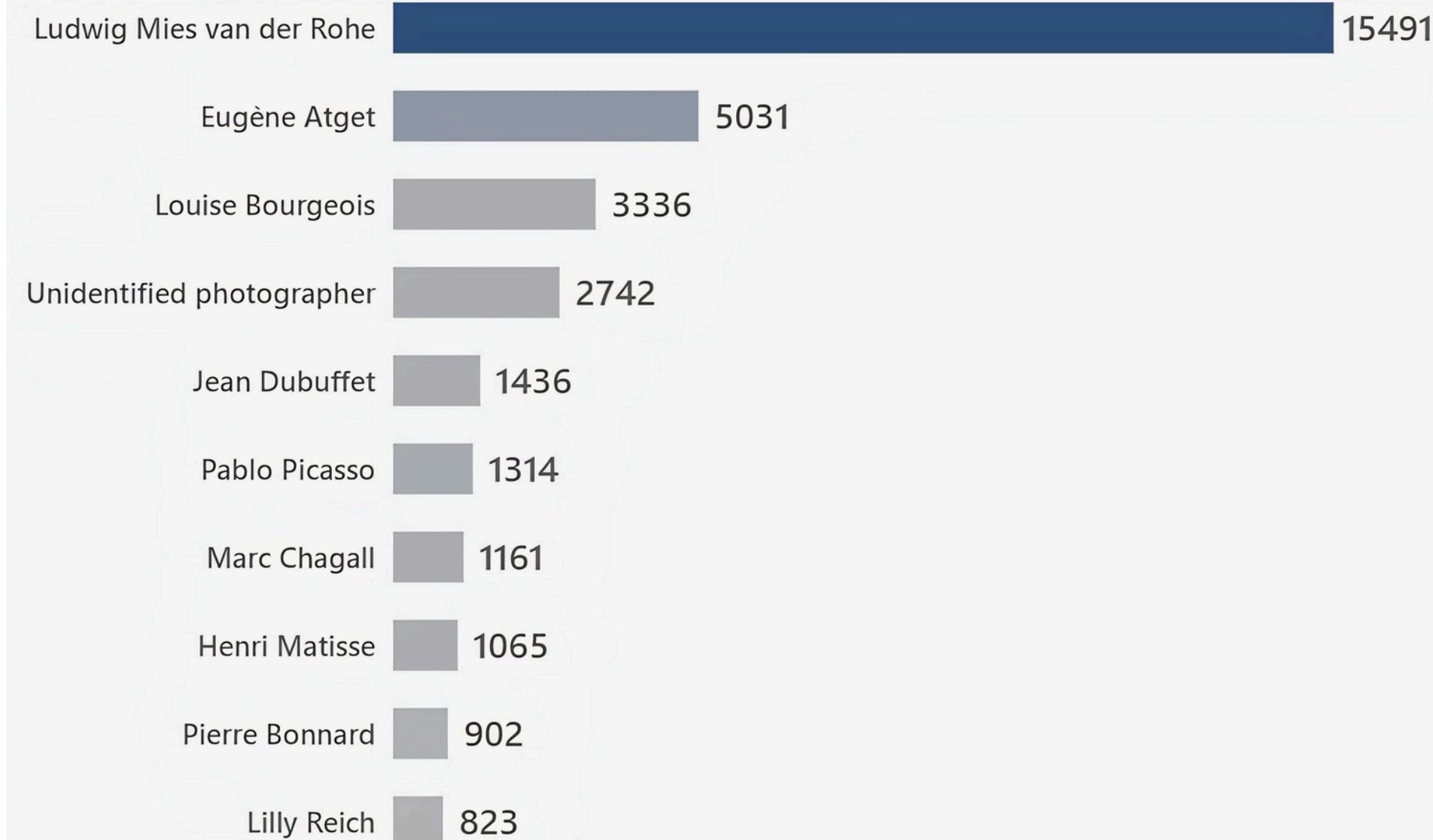
# Artist Most Featured

Who Dominates the Collection?

Ludwig Mies van der Rohe: 15,000+ pieces

Eugene Atget leads in Photography

Picasso, Matisse, Chagall also featured prominently



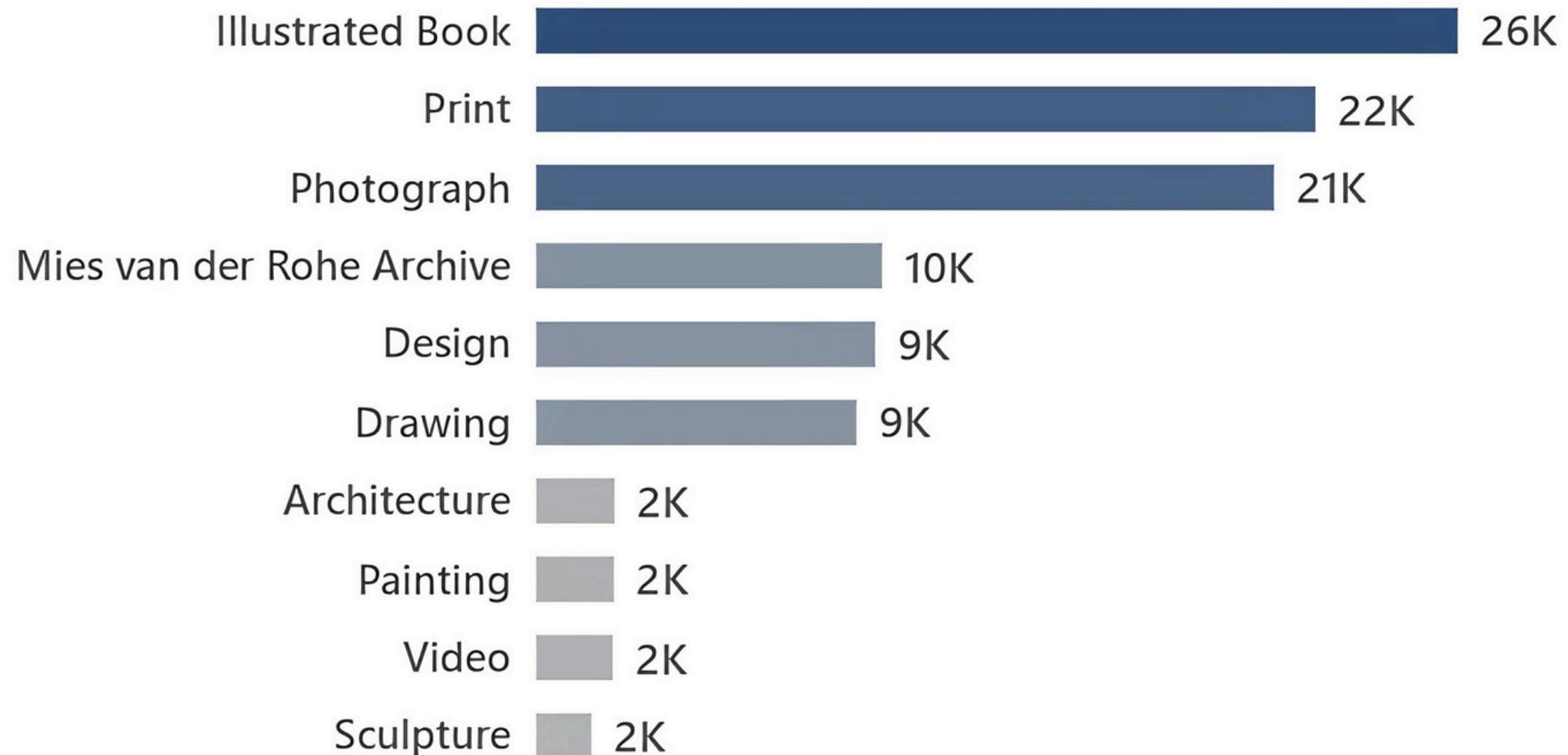
# Collection by Classification

What types of artwork are most common?

Photographs, Prints, and Illustrated Books dominate

Strong focus on reproducible visual media

Paintings represent a smaller portion



# Top Artist by Department

Curatorial Focus by Department



**Eugene Atget**

Photography



**Jerry Lewis**

Film



**Pablo Picasso**

Painting & Sculpture



**Louise Bourgeois**

Drawings & Prints



**Patterson Beckwith,  
Alex Bag**

Media & Performance



**Ludwig Mies van der  
Rohe**

Architecture & Design -  
Image Archive



**George Maciunas**

Fluxus Collection



**Ludwig Mies van der  
Rohe**

Architecture & Design



# MUSEUM COLLECTION INSIGHTS DASHBOARD

## Museum Overview

Year

All

Nationality

All

Department

Architecture & D...

Architecture & D...

Drawings & Prints

Film

Fluxus Collection

Media and Perform...

Painting & Sculpt...

Photography

Overview

Department & Artist Explorer

Total Artworks

107,118

Total Departments

8

Latest Acquisition Year

2024

Total Artists

14,077

Total Artworks and Total Artists by Month

● Total Artworks ● Total Artists

30K

20K

10K

0K

Time-Based Trends (Artworks and Artists)

● Total Artworks ● Total Artists

10K

5K

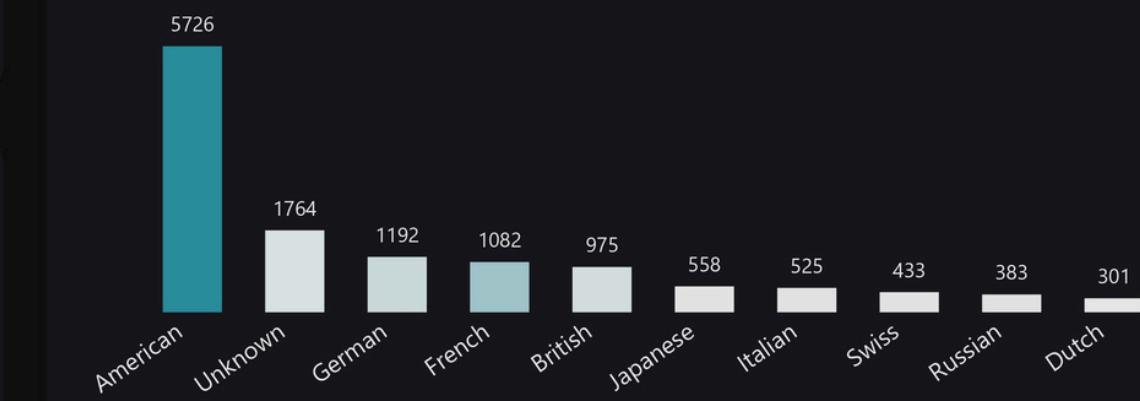
0K

1000  
500  
0  
Year

Artwork Classification Breakdown (Top 10)

Illustrated Book	25.7K
Print	21.7K
Photograph	20.6K
Mies van der Rohe Archive	9.6K
Design	9.5K
Drawing	8.9K
Architecture	2.2K
Painting	2.2K
Video	2.1K
Sculpture	1.5K

Top 10 Nationality Distribution



Most Featured Artists

Ludwig Mies van der Rohe	9001
Eugène Atget	2919
Pablo Picasso	1187
Louise Bourgeois	1162
Marc Chagall	1128
Unidentified photographer	1075
Jean Dubuffet	1052
Henri Matisse	1035
Pierre Bonnard	900
Lilly Reich	651



# MUSEUM COLLECTION INSIGHTS DASHBOARD

Date Acquired

11/19/1929

10/28/2024

## Department & Artist Explorer

Year

All

Nationality

All

Department

Architecture & D...

Architecture & D...

Drawings & Prints

Film

Fluxus Collection

Media and Perform...

Painting & Sculpt...

Photography

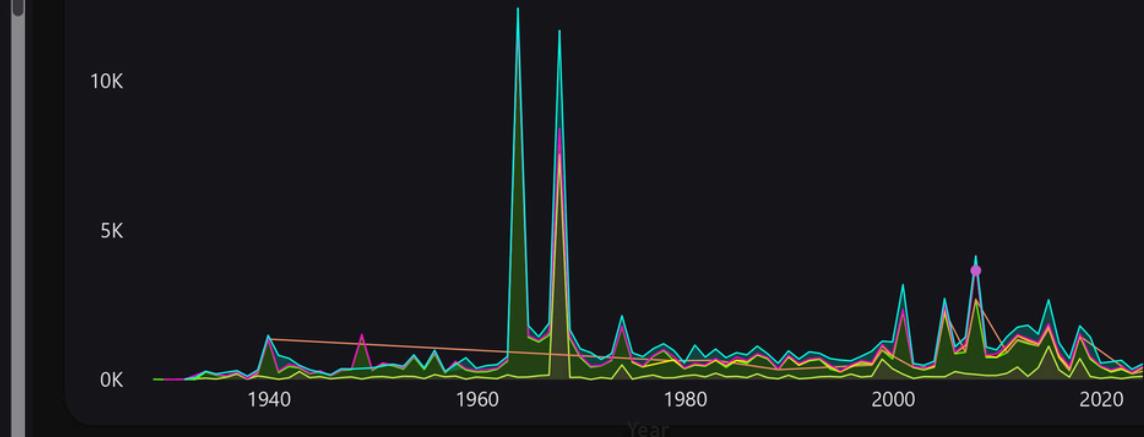
Overview

Department & Artist Explorer

ConstituentID	DisplayName	ArtistBio	Gender	Department	Total Artworks
1	Robert Arneson	American, 1930–1992	male	Drawings & Prints	2
2	Doroteo Arnaiz	Spanish, born 1936	male	Drawings & Prints	1
3	Bill Arnold	American, born 1941	male	Photography	26
4	Charles Arnoldi	American, born 1946	male	Drawings & Prints	1
5	Per Arnoldi	Danish, born 1941	male	Architecture & Design	8
6	Danilo Aroldi	Italian, born 1925	male	Architecture & Design	1
7	Bill Aron	American, born 1941	male	Photography	1
9	David Aronson	American, born Lithuania 1923	male	Architecture & Design	1
10	Irene Aronson	American, born Germany 1918	female	Drawings & Prints	1
11	Jean (Hans) Arp	French, born Germany (Alsace). 1886–1966	male	Architecture & Design	4
11	Jean (Hans) Arp	French, born Germany (Alsace). 1886–1966	male	Drawings & Prints	216
11	Jean (Hans) Arp	French, born Germany (Alsace). 1886–1966	male	Painting & Sculpture	19
12	Jüri Arrak	Estonian, born 1936	male	Drawings & Prints	1
13	José Arellano Fischer	Mexican, 1911–1995	male	Drawings & Prints	1
15	Folke Arstrom	Swedish, 1907–1997	male	Architecture & Design	1
16	Cristobal Arteche	Spanish, 1900–1964	male	Architecture & Design	1
18	Artko		Unknown	Architecture & Design	1
19	Richard Artschwager	American, 1923–2013	male	Drawings & Prints	34
19	Richard Artschwager	American, 1923–2013	male	Painting & Sculpture	12
19	Richard Artschwager	American, 1923–2013	male	Photography	1
21	Ruth Asawa	American, 1926–2013	female	Drawings & Prints	33
22	Isidora Aschheim	Israeli	female	Drawings & Prints	1
23	Charles Robert Ashbee	British, 1863–1942	male	Architecture & Design	1
24	Donald Ashcraft	American, born 1927	male	Drawings & Prints	1
25	E. M. Ashe	American, 1867–1941	male	Architecture & Design	1
26	Göran Åslin	Swedish, born 1940	Unknown	Architecture & Design	2
27	Erik Gunnar Asplund	Swedish, 1885–1940	male	Architecture & Design	33
28	Geneviève Asse	French, born 1923	female	Drawings & Prints	50
30	Sergio Asti	Italian, 1926–2021	male	Architecture & Design	5
31	Dana Atchley	American, 1941–2000	female	Drawings & Prints	7
32	Atelier Eggers	French	Unknown	Architecture & Design	1
33	A. A. P.	American	Unknown	Architecture & Design	1

### Total Artworks by Year and Department

Department ● Architecture ... ● Architecture ... ● Drawings & ... ● Film ● Fluxus Collecti... ● Media and ... ● Painting & S... ● Photography



### Top Artist in Each Department

Artist	Department
Eugène Atget	Photography
Pablo Picasso	Painting & Sculpture
Patterson Beckwith, Alex Bag	Media and Performance
George Maciunas	Fluxus Collection
John Jensen, Jerry Lewis	Film
Louise Bourgeois	Drawings & Prints
Ludwig Mies van der Rohe	Architecture & Design - Image Archive
Ludwig Mies van der Rohe	Architecture & Design

# Technology & Tools

Powered By...



**SQL Server**

Data cleaning, joins, filtering



**DAX in Power BI**

Dynamic measures (top artist, period logic)



**Power BI**

Dashboard creation and interactivity



# Conclusion

- The Museum's collection is **modern, diverse, and globally influenced**, clearly focusing on 20th and 21st-century works.
- Key insights into **top artists, acquisition trends, and departmental focus** offer curators, researchers, and art lovers valuable knowledge.
- The interactive Power BI dashboard transforms raw data into a **visual storytelling tool**, enabling smarter decisions and richer engagement.

# Thank You

