

# Winter Olympics — Medal Performance Analysis

Exploratory data analysis of medal distribution across countries, sports, gender and age

## Purpose of the analysis

The goal of this analysis is to understand long-term medal performance patterns at the Winter Olympics, identify dominant countries and sports, and explore demographic factors influencing medal success.

## Target user

Management, product owners and analysts interested in data-driven insights into performance structures and long-term trends.

### Data source

Historical Winter Olympics medal data

Public sources (LA Times, Sports-Reference, Wikipedia)

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**Power BI • DAX • Python**  
**2025**

**3K**  
**Medals**

**44**  
**Countries**

**15**  
**Sports**

**2K**  
**Athletes**

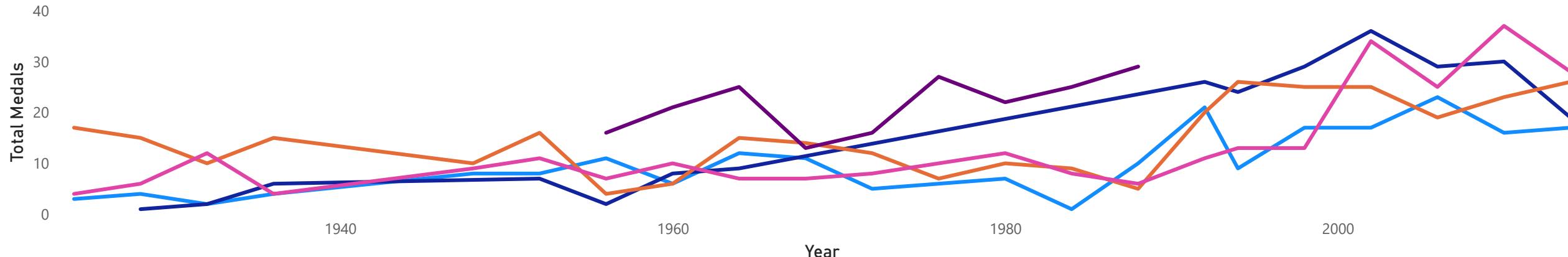
**692**  
**Teams**

**Decades**

All

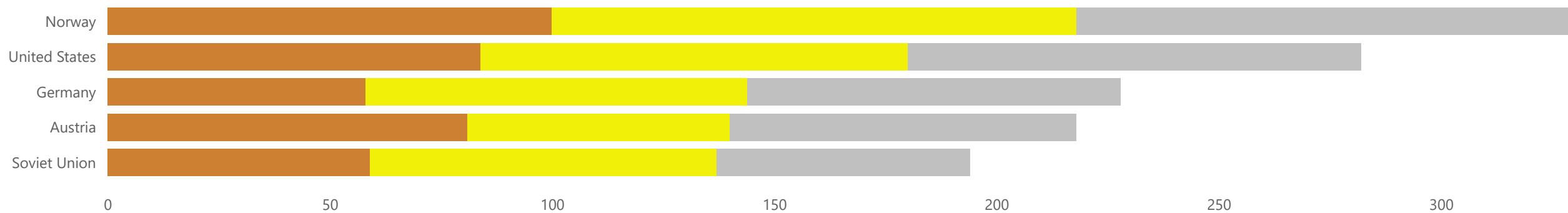
## Medal Trends Over Time - Top Countries

● Austria ● Germany ● Norway ● Soviet Union ● United States



## Top Performing Countries by Medals

● bronze ● gold ● silver



## KEY INSIGHT

Norway, USA and Germany consistently dominate Winter Olympics medal counts over time, driven by strong performance in skiing and skating disciplines.

Medals

3K

Countries

44

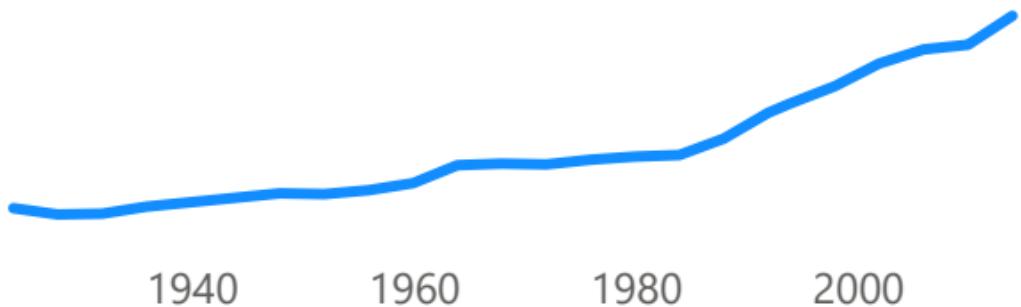
Sports

15

All



## Medals Trend - Selected Context



gold

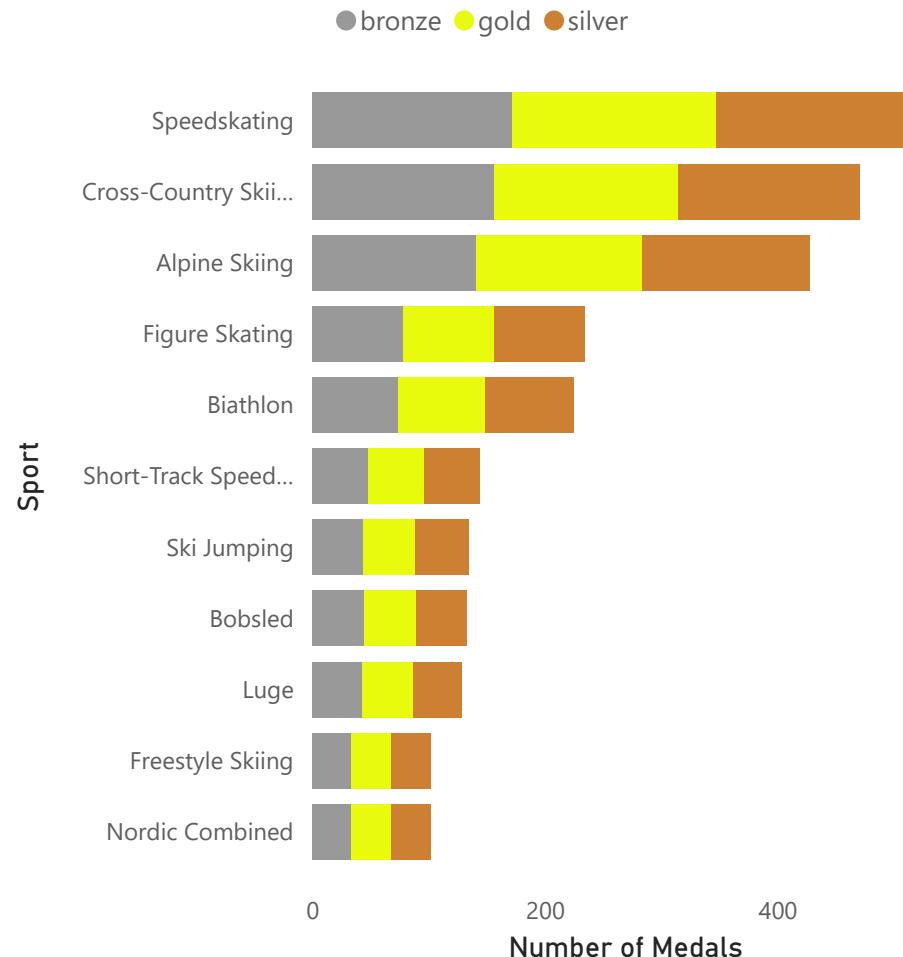


bronze



silver

## Top Sports by Medal Contribution



### KEY INSIGHT

Medal success is driven by a small number of sports, with a clear age peak around mid-20s and significant gender differences across countries.

### KEY INSIGHT #2

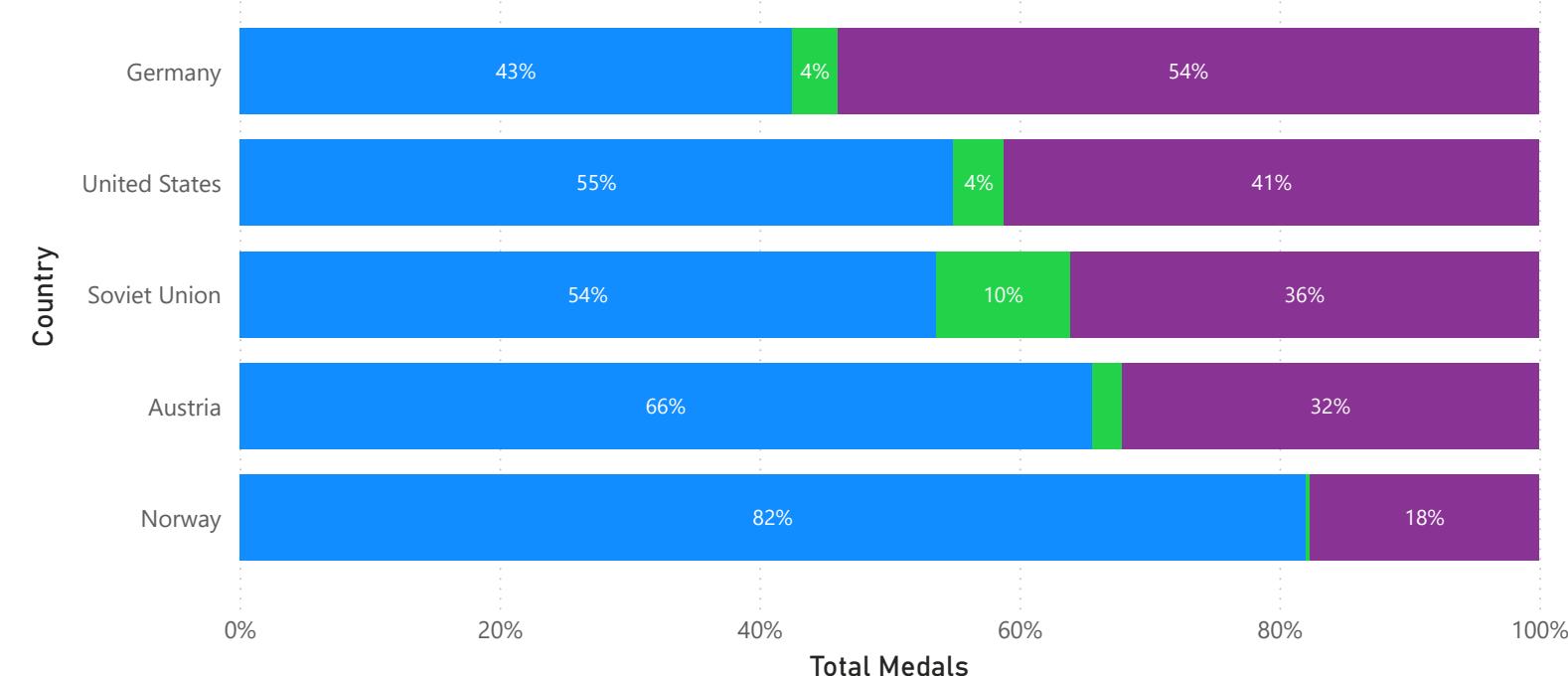
Germany and USA show the highest share of women medalists, while Norway remains male-dominated across decades.

## Country, Decade, Sport

Country	Decade	Sport
All	All	All

## Gender Distribution of Medals by Country

Gender ● Men ● Mixed ● Women



## Age Distribution of Medal-Winning Athletes

