Citation:

1. Economy study published dataset: GDP of Soviet Union pre 1991:  Maddison, Angus (2006). [The World Economy](https://www.stat.berkeley.edu/~aldous/157/Papers/world_economy.pdf) (PDF). Paris, France: Development Centre of the Organisation for Economic Co-operation and Development (OECD). pp. 400–600. [ISBN](https://en.wikipedia.org/wiki/ISBN_(identifier)) [978-92-64-02261-4](https://en.wikipedia.org/wiki/Special:BookSources/978-92-64-02261-4).
2. Kaggle dataset: GDP data after 1991 for various countries including Russia https://www.kaggle.com/tunguz/country-regional-and-world-gdp?select=gdp\_csv.csvb
3. United Nation website: Population date for various countries including Soviet Union pre 1991 and Russia post 1991 https://population.un.org/wpp/Download/Standard/Population/

Chart, line chart

Description automatically generated

1. This graph shows the gender trend of Russian athletes participating the Olympic games over the years.
2. The number of both male and female have been raise and fall over the year, but started with very small percentage of female athletes in 1950, the ratio of female participation has been improving , in recent years since 2006 Russia has been sending more female athletes than male athletes.
3. In so far as communist leaders have generally regarded the sports arena as being in the spotlight of world attention, the major effort in sports competition has been to win Olympic. One effect of this policy since the 1950s has been to encourage women's sport in all the events of the Olympic Game.

Chart, line chart

Description automatically generated

Currently Russia is the world's [eleventh-largest economy](https://en.wikipedia.org/wiki/List_of_countries_by_GDP_(nominal)) by nominal GDP, the GDP witnessed decades of increase before dissolution during the periods [Soviet Union](https://en.wikipedia.org/wiki/Soviet_Union)'s economy was guided by a series of .Following the collapse of the [Soviet Union](https://en.wikipedia.org/wiki/Soviet_Union), the GDP took a dramatic dip, that is when Russia underwent a radical transformation, moving from a [centrally planned economy](https://en.wikipedia.org/wiki/Planned_economy) to a [globally](https://en.wikipedia.org/wiki/Globalization)  [market economy](https://en.wikipedia.org/wiki/Market_economy). And GDP number had been collapsing through 1990s but Russia bounced back from the August 1998 financial crash with surprising speed, and a sharp, but brief [recession in Russia](https://en.wikipedia.org/wiki/Great_Recession_in_Russia) due to global credit crisis in 2008 was followed by a strong recovery beginning in late 2009.

Chart, scatter chart

Description automatically generated

The plot below shows how the total medal points (Y-axis) vary with Russia country GDP (X-axis).

As we can see from the correlation analysis, the relationship is not too far from linear. The graph suggests the GDP and medal counts over the years are positively correlated, Olympic medal count tends to go hand-in-hand with economic clout.