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MATHMANIA

Glossary

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NATIONS SELECTED

- ▶ The five nations I have selected for the Mathmania studies are
 - ▶ Australia
 - ▶ Spain
 - ▶ Portugal
 - ▶ Germany
 - ▶ Poland



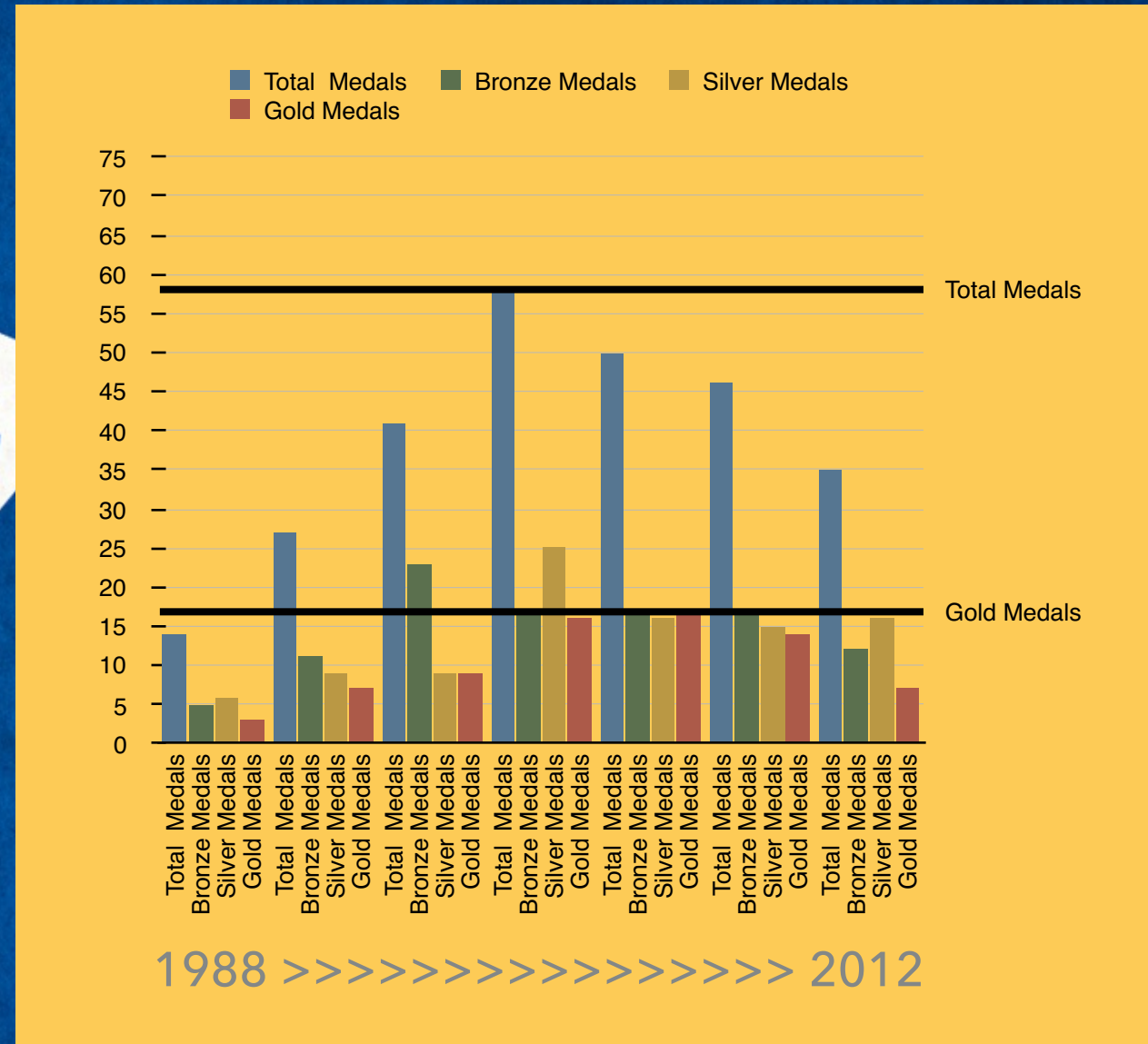
AUSTRALIA

AUSTRALIA'S CAMPAIGN FROM 1988 ONWARDS

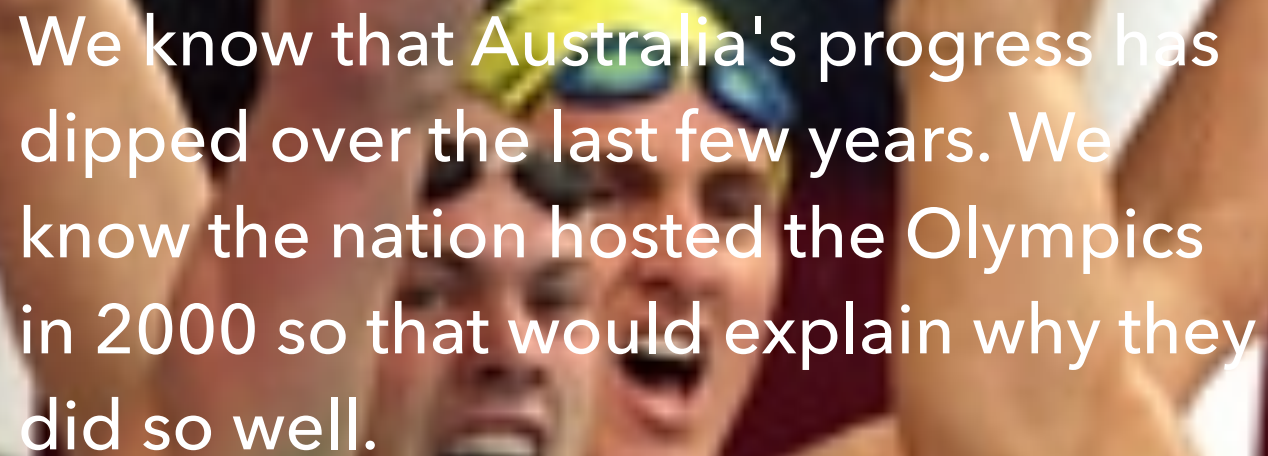
From 1988 onwards, Australia has won 271 medals including 102 Bronze, 96 Silver and 73 Gold medals.

The average Total Medals for each Olympics is 34 medals. They average 10 Gold medals for each Olympics as well.

The highest rank Australia has achieved for their Olympic performance was 4th and was when they hosted the Olympics in 2000.



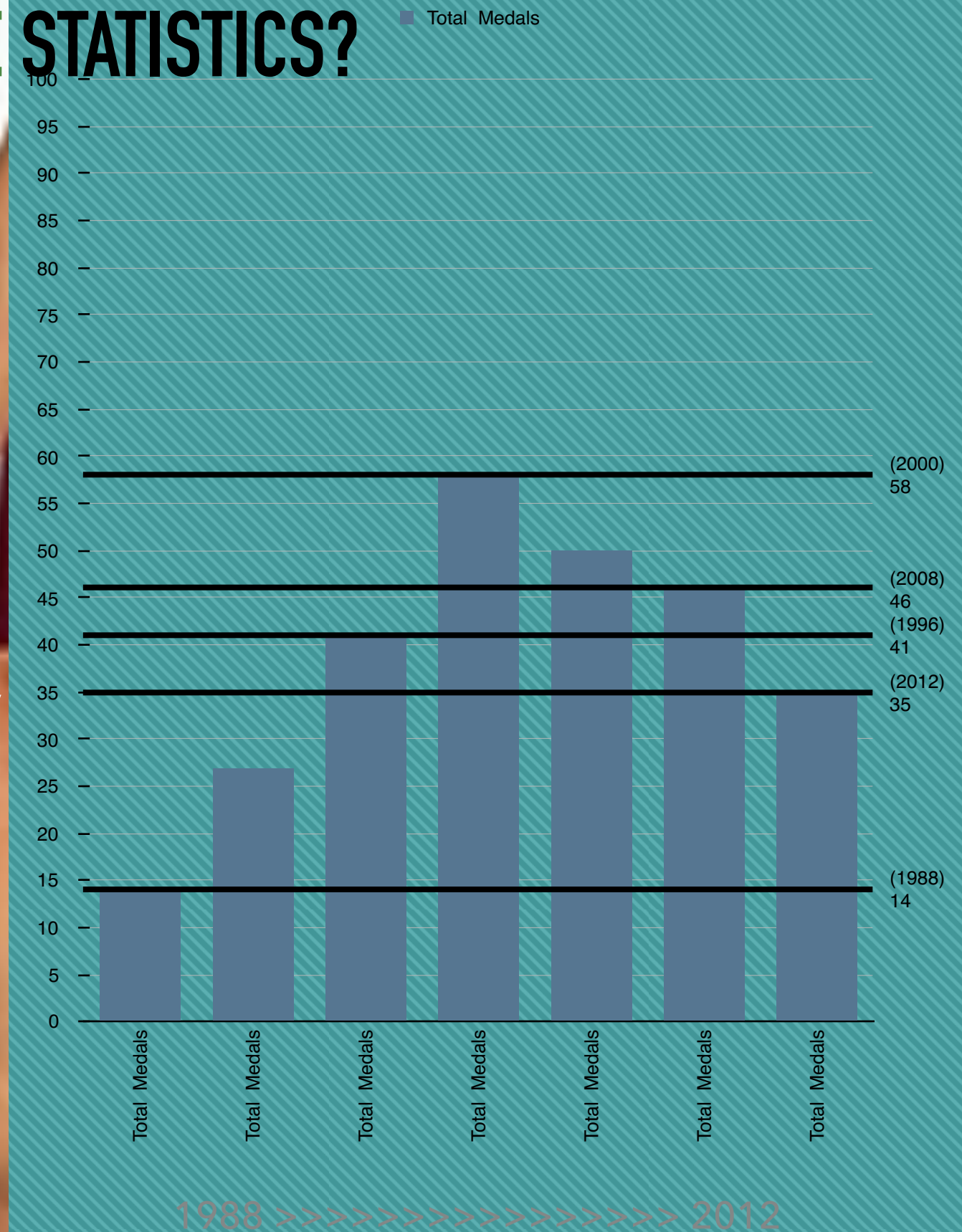
WHAT CAN WE LEARN FROM THE STATISTICS?



We know that Australia's progress has dipped over the last few years. We know the nation hosted the Olympics in 2000 so that would explain why they did so well.

In 2008, Australia won 6 Gold medals in swimming but in 2012, Australia only won 1 Gold medal and 6 Silver medals.

Going towards the future, Australia may do well at the Olympics in Rio de Janeiro as the climate is similar to typical Australian Summer weather.



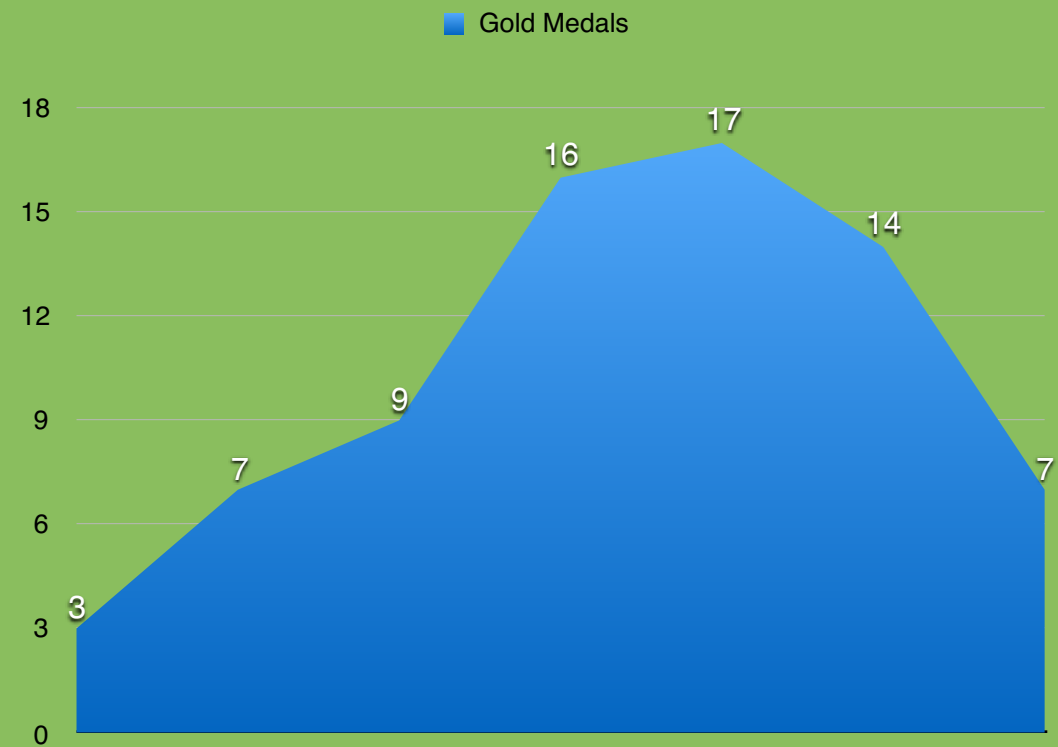
MEAN, MEDIAN AND RANGE OF AUSTRALIA'S OLYMPIC PERFORMANCES

Australia averages 33.875 medals per Olympics. Australia averages 10.429 gold medals per Olympics.

Australia's median was their peak performance in 2000, earning 58 medals, 17 of them being gold medals.

Australia's range of medals goes from 14 medals in 1988 to 58 medals in 2000, going up by 414%.

Australia's range of gold medals goes from 3 medals in 1988 to 17 in 2004, going up by 566%.



This graph shows that Australia's gold medal tallies are based on a negative skew. The gold medal tally was low at the start but has improved as time goes by before starting to dip again.



**SPAIN/
ESPAÑA**

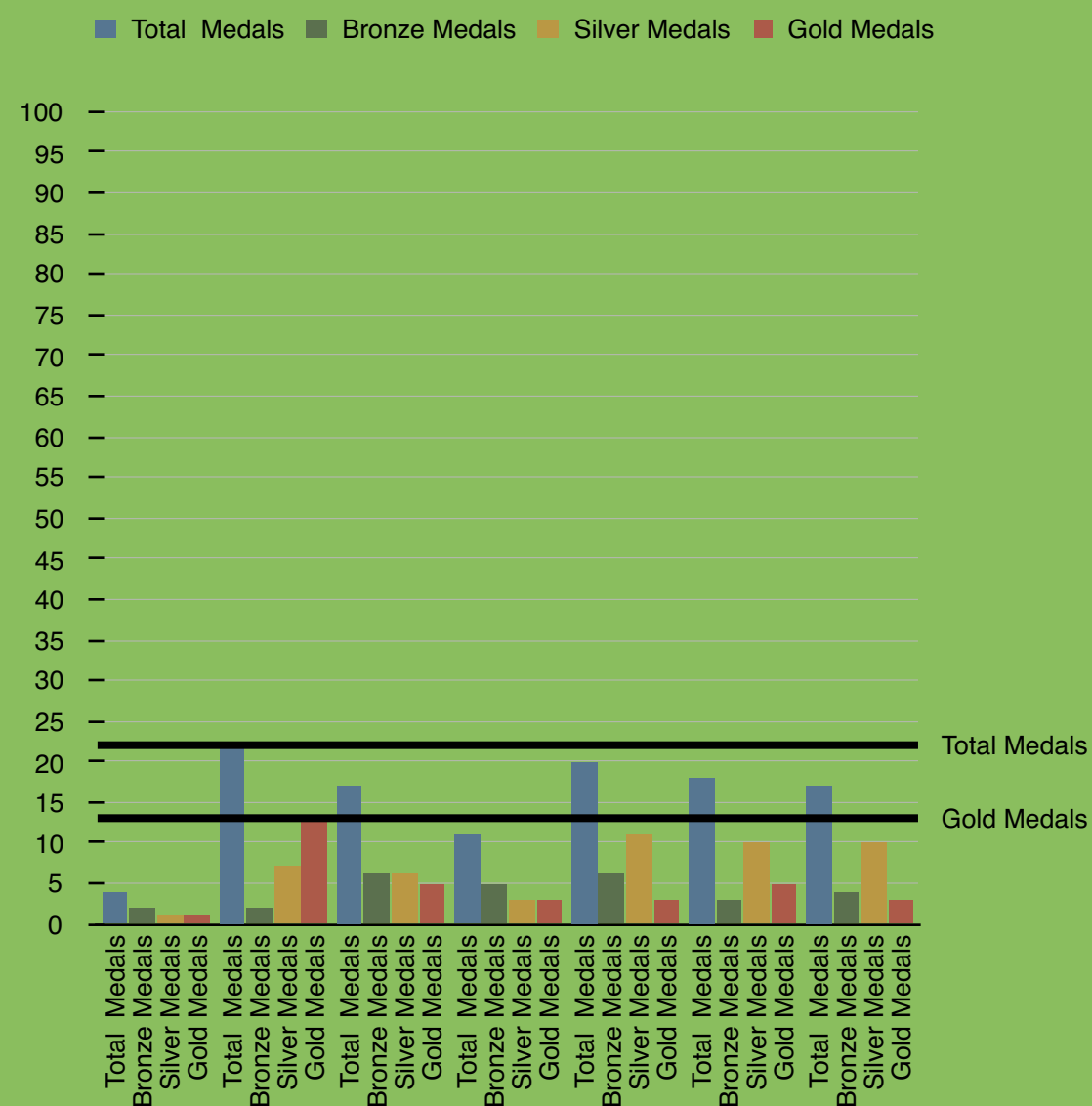
SPAIN'S CAMPAIGN FROM 1988 ONWARDS

From 1988 onwards, Spain has received 109 medals in total; 28 bronze medals, 48 silver medals and 31 gold medals.

The most successful event in the Olympics for Spain in 2012 was sailing where they won 2 of their 3 gold medals.

Spain's top performance was in 1992 where they hosted the Olympics in Barcelona where they won 13 gold medals, 7 silver medals and 2 bronze medals.

The highest rank Spain has achieved at the Olympics was a ranking of 6th at the Barcelona Olympics in 1992.

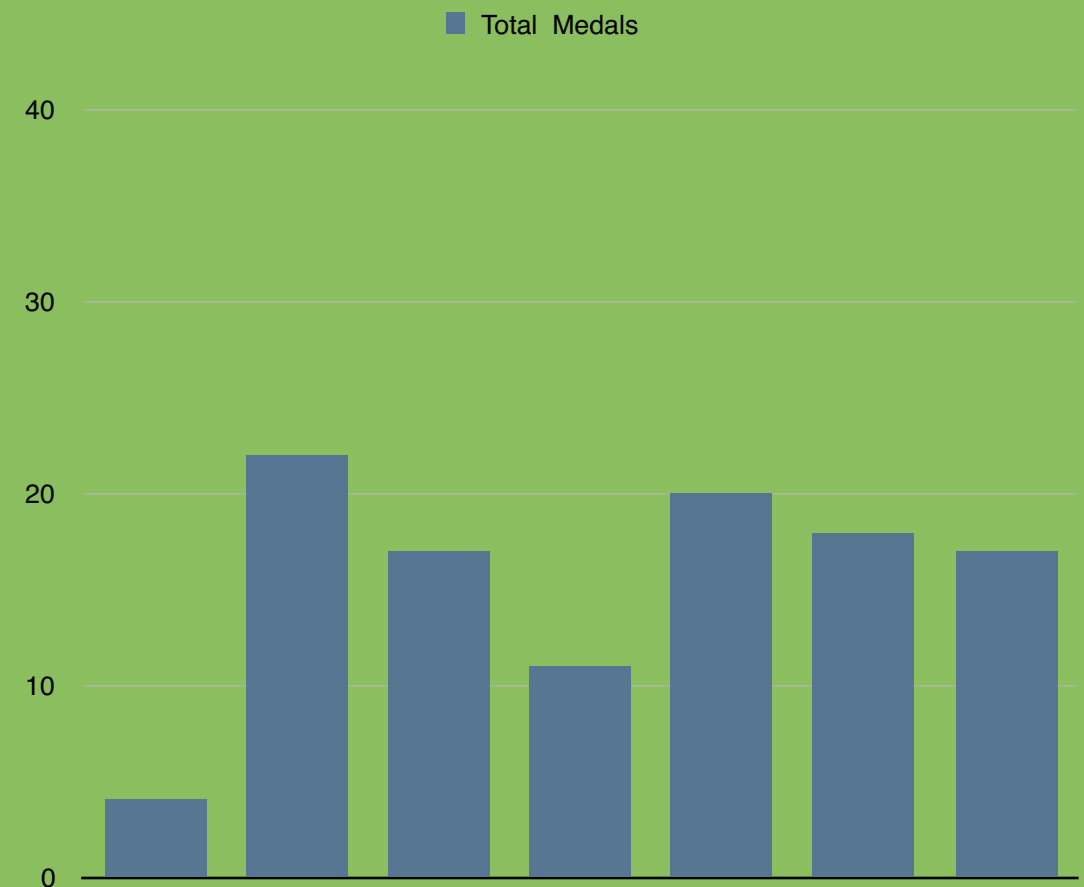


WHAT CAN WE LEARN FROM THE STATISTICS?

From the information that I have received from research, all of Spain's medal tallies have very steadily dropped since they hosted the Olympics in 1992.

Looking forward, as Spain grows larger, their Olympic status will slowly start to come back again.

For the 2016 Olympics, I would imagine that Spain will put forward another rather disappointing performance.



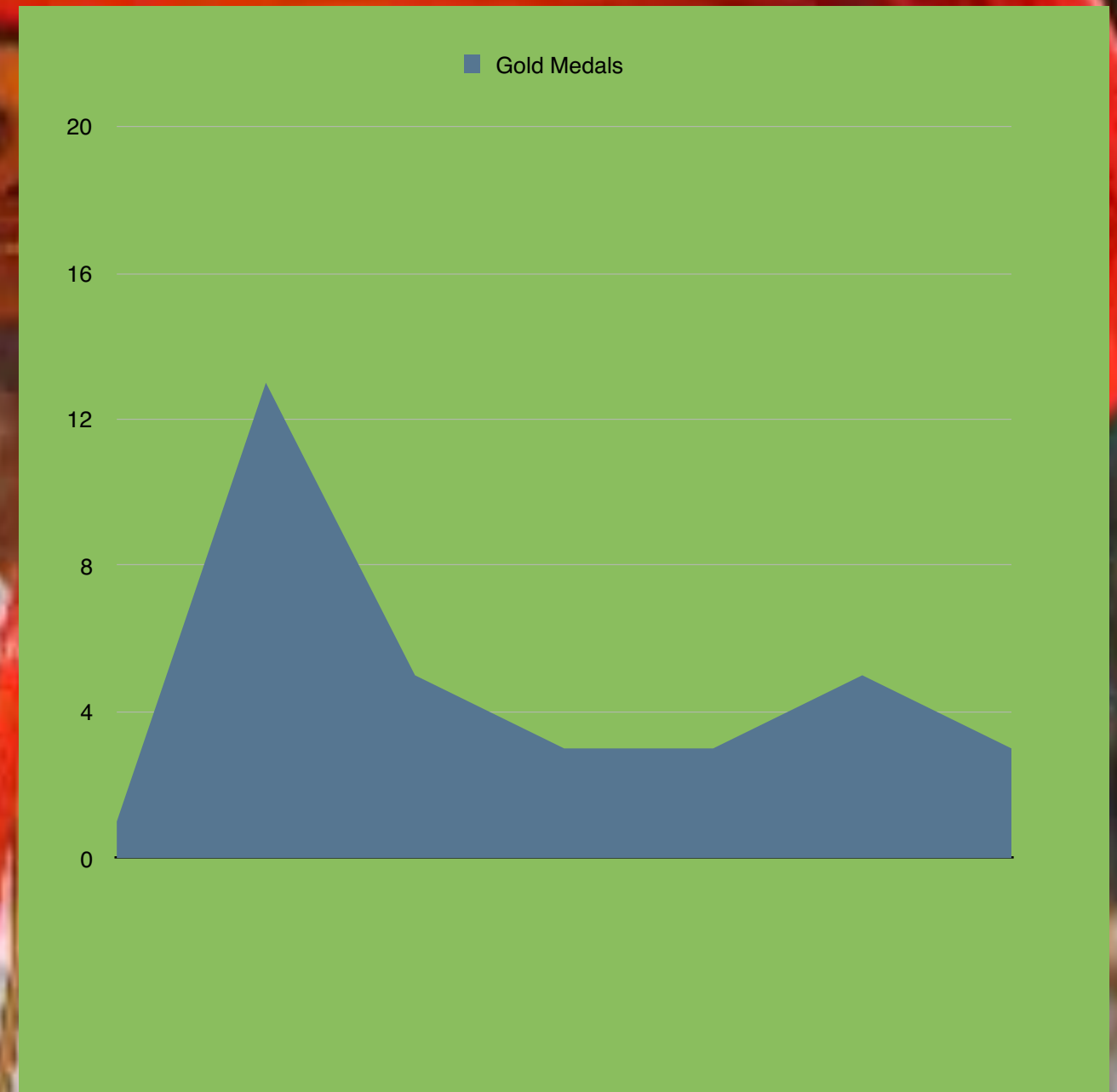
MEAN, MEDIAN AND RANGE OF SPAIN'S OLYMPIC PERFORMANCES

Spain averages 15.571 medals per Olympics. Spain averages 4.714 gold medals per Olympics.

Spain's median was their performance in 2000, earning 11 medals, 3 of them being gold medals.

Spain's range of medals goes from 4 medals in 1988 to 22 medals in 1992, going up by 550%.

Spain's range of gold medals goes from 1 medals in 1988 to 13 in 1992, going up by 1300%.





PORTUGAL/
PORTUGUESA

PORTUGAL'S CAMPAIGN FROM 1988 ONWARDS

Their top performer at the Olympics is Carlos Lopes. He won 1 gold medal and 1 silver medal. He won gold in the marathon in 1984 and silver in the 10km event in 1976.

Portugal has won all of their gold medals in track and field events; Men's marathon, Women's marathon, 10km run & Men's triple jump.

Portugal's best performance at the Olympics was in 2008 where they won 1 gold medal and 1 silver medal.



Portugal has not won enough medals to make a graph.

WHAT CAN WE LEARN FROM THE STATISTICS?

We know that Portugal is not the biggest or most powerful country in the world, but Portugal can certainly invest more money into the Olympics to lure in tourists and for bragging rights.

Portugal winning a total of 4 gold medals since 1988 must leave the Portuguese frustrated, wanting more from their athletes.

For the 2016 Olympics, I wouldn't be too surprised if Portugal were to get no more than 2 gold medals throughout the tournament.



Portugal is one of the worst performers at the Olympics in Europe.

MEAN, MEDIAN AND RANGE OF PORTUGAL'S OLYMPIC PERFORMANCES

Portugal averages 1.517 medals per Olympics. Portugal averages 0.517 gold medals per Olympics.

Portugal's median was their performance in 2000, earning 2 medals, none of them being gold medals.

Portugal's range of medals goes from 0 medals in 1992 to 3 medals in 2004, going up by N/A%.

Portugal's range of gold medals goes from 0 medals in 1992, 2000 & 2004 to 1 in 1988, 1996, 2008 & 2012 going up by N/A%.



I think Portugal will win 1 gold medal at the 2016 Olympics.

GERMANY/ DEUTSCHLAND

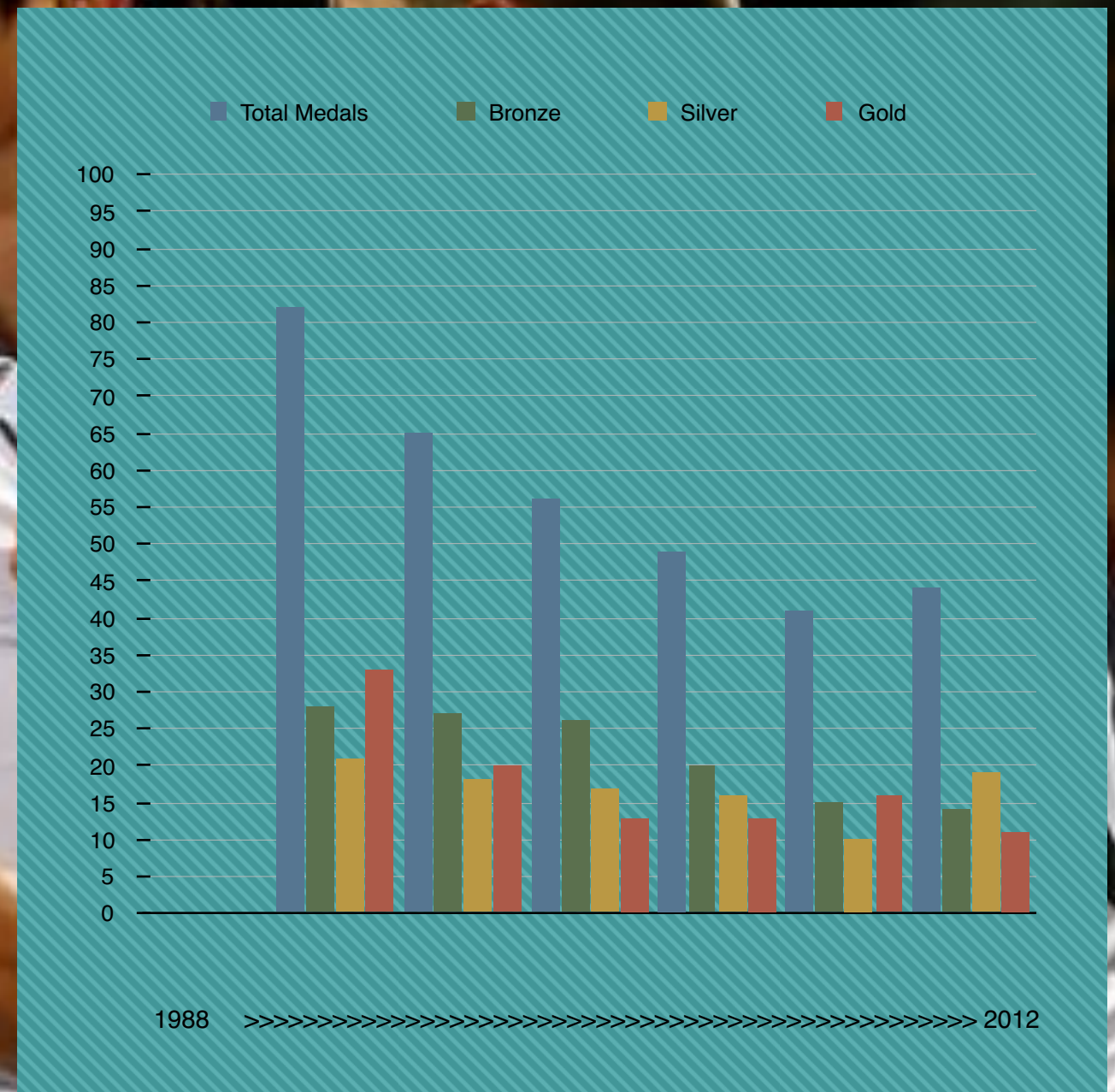


GERMANY'S CAMPAIGN FROM 1988 ONWARDS

It's quite interesting that Germany's best performance at any Olympics was their first Olympics campaign after being split into West Germany and East Germany due to Communism in the East.

Germany are the current football champions of the world and that may influence some results at the 2016 Olympics.

Germany's best performance at the Olympics was in 1992 where they won 82 medals, 33 of them being gold medals.

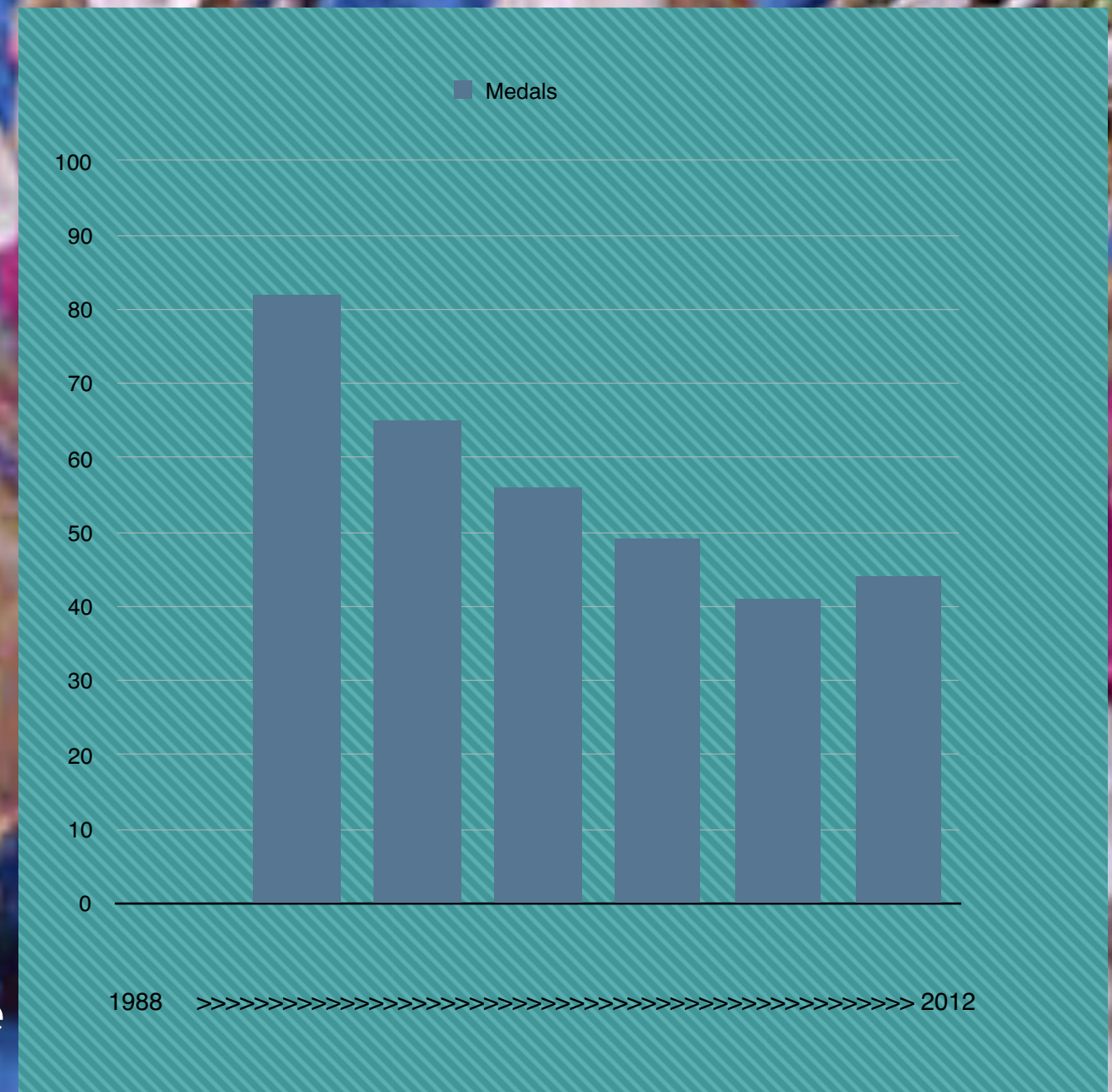


WHAT CAN WE LEARN FROM THE STATISTICS?

In my eyes, it's quite surprising to see that Germany's decline at the Olympics is still occurring even though their economy and population is growing at a very fast rate.

Winning 40 gold medals in the last 4 Olympic tournaments must still be entertaining for the Germans.

In 2016, I believe that Germany will win at least 13 gold medals and will win the Olympic Football Championship.



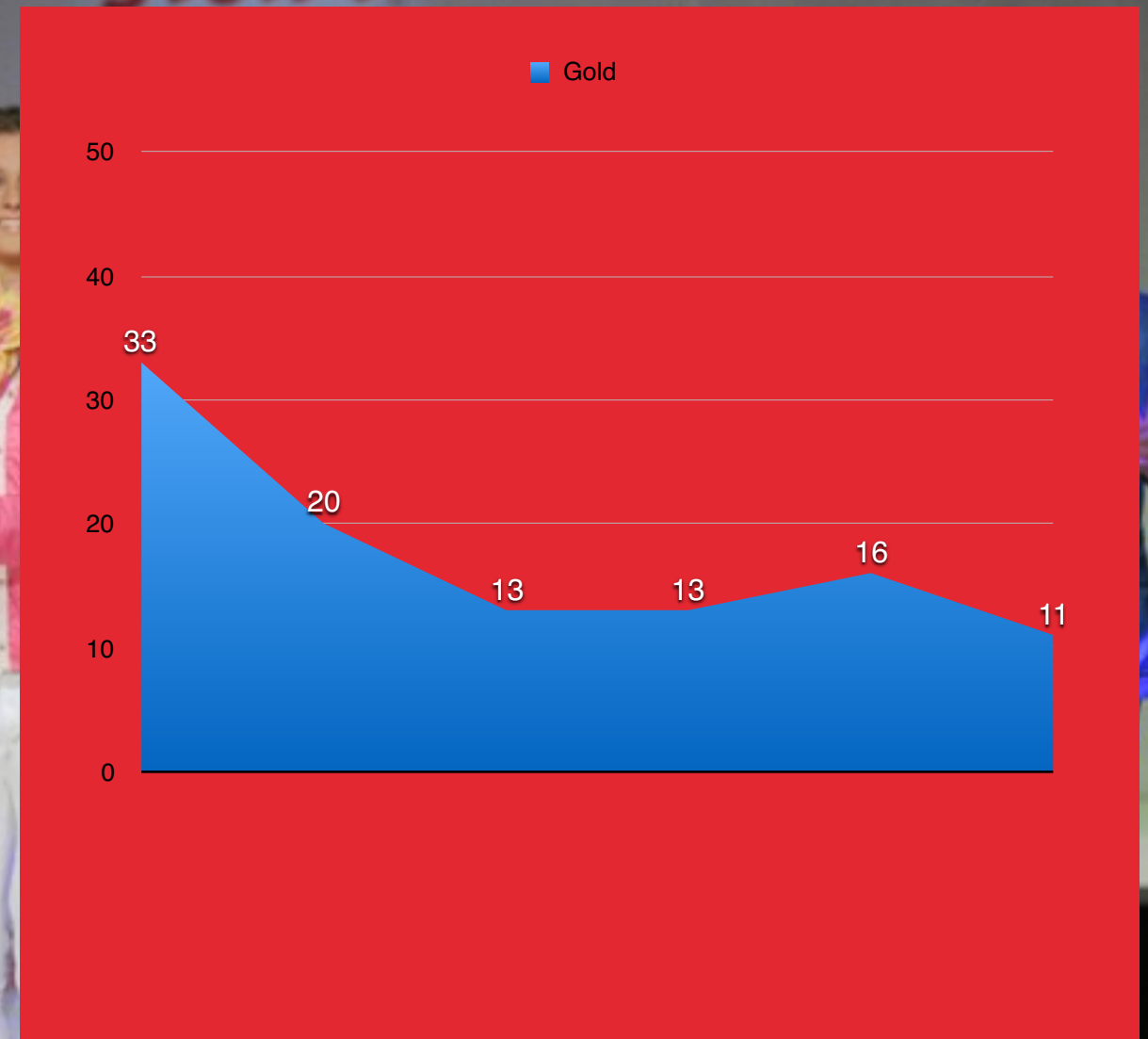
MEAN, MEDIAN AND RANGE OF GERMANY'S OLYMPIC PERFORMANCES

Germany averages 51.167 medals per Olympics. Germany averages 17.667 gold medals per Olympics.

Germany's median was their performance in 2000, earning 56 medals, 13 of them being gold medals.

Germany's range of medals goes from 41 medals in 2008 to 82 medals in 1988, going up by 100%.

Germany's range of gold medals goes from 11 medals in 2012 to 33 in 1988, going up by 200%.



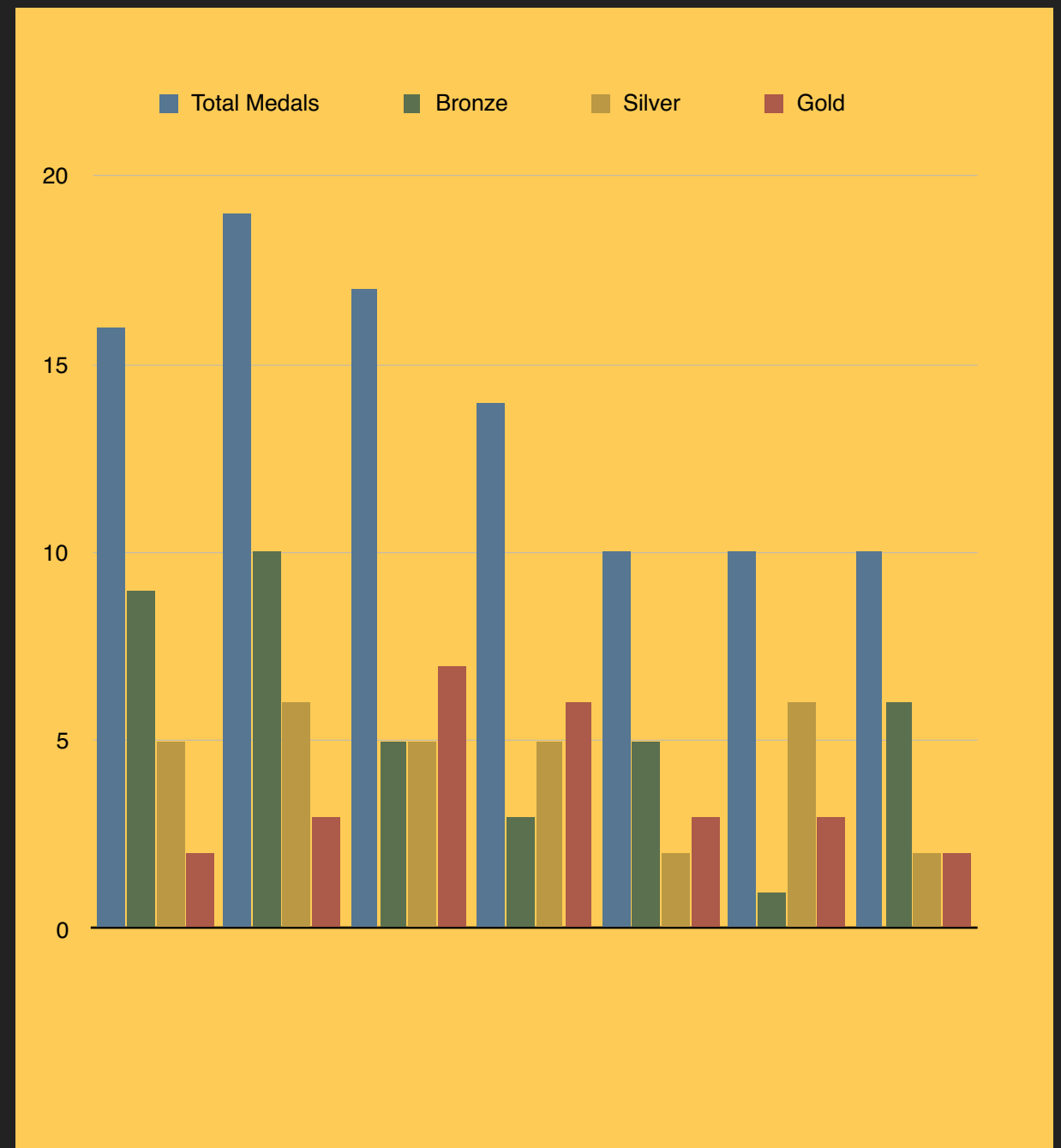
**POLAND/
POLSKA**

POLAND'S CAMPAIGN FROM 1988 ONWARDS

For a country that is relatively small in comparison to other European nations, they certainly have a lot of firepower winning a lot of medals for a small nation.

One of their star athletes, Robert Lewandowski, his whole family has competed in professional competitions in different sports for Poland, creating a path for future Polish children to follow.

Poland's best performance was in 1996 where they won 17 medals and 7 of them being gold medals.

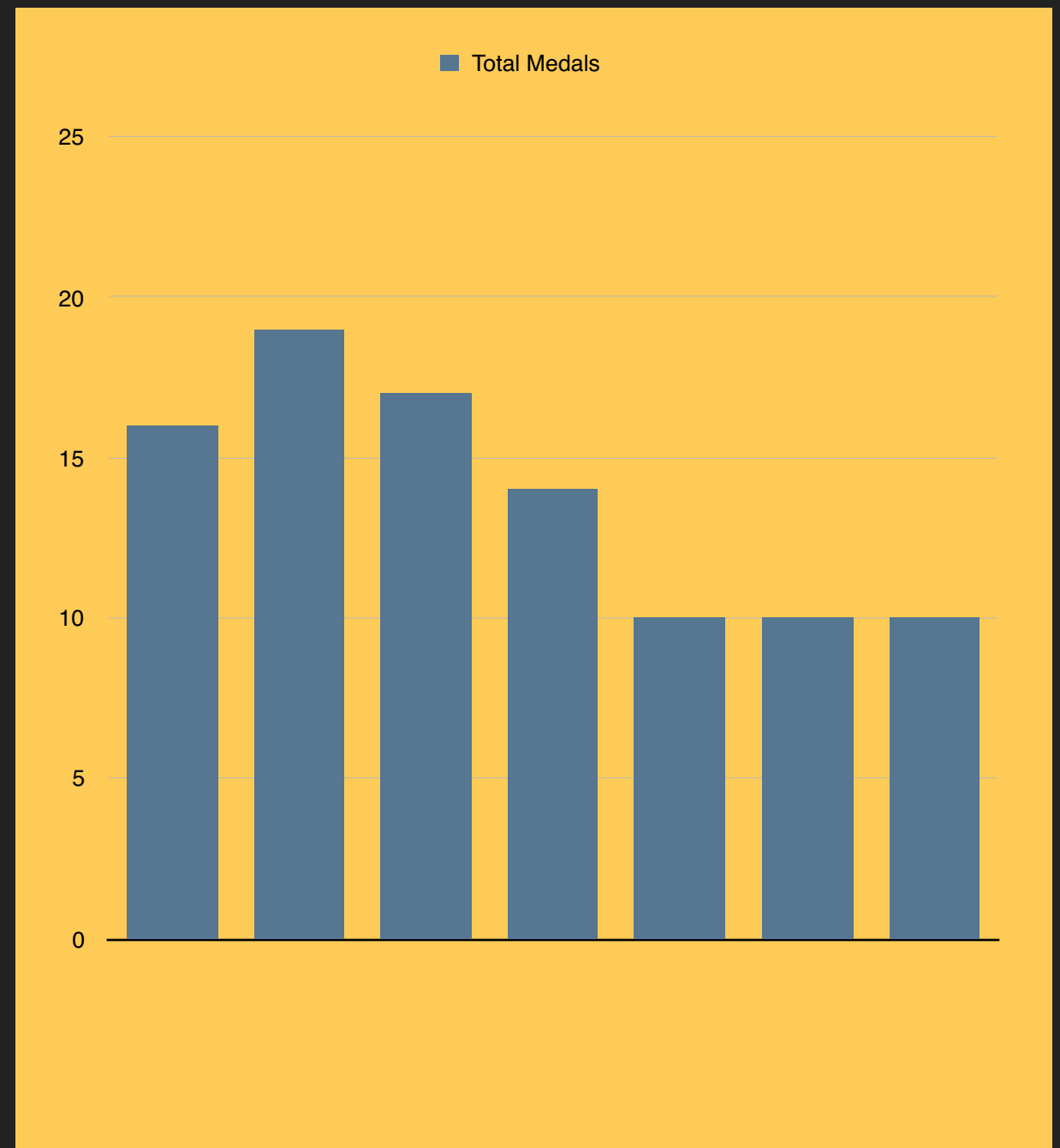


WHAT CAN WE LEARN FROM THE STATISTICS?

What we can learn from these statistics is that even though Poland does not have all the money in the world, they can still bring up world-class athletes here and there.

If more investing were made into improving Poland's reputation at the Olympics, then Poland could potentially be a dark horse over the next couple of decades.

In 2016, I believe that Poland will give a similar performance to 2012's and that they will start to climb up the world rankings.



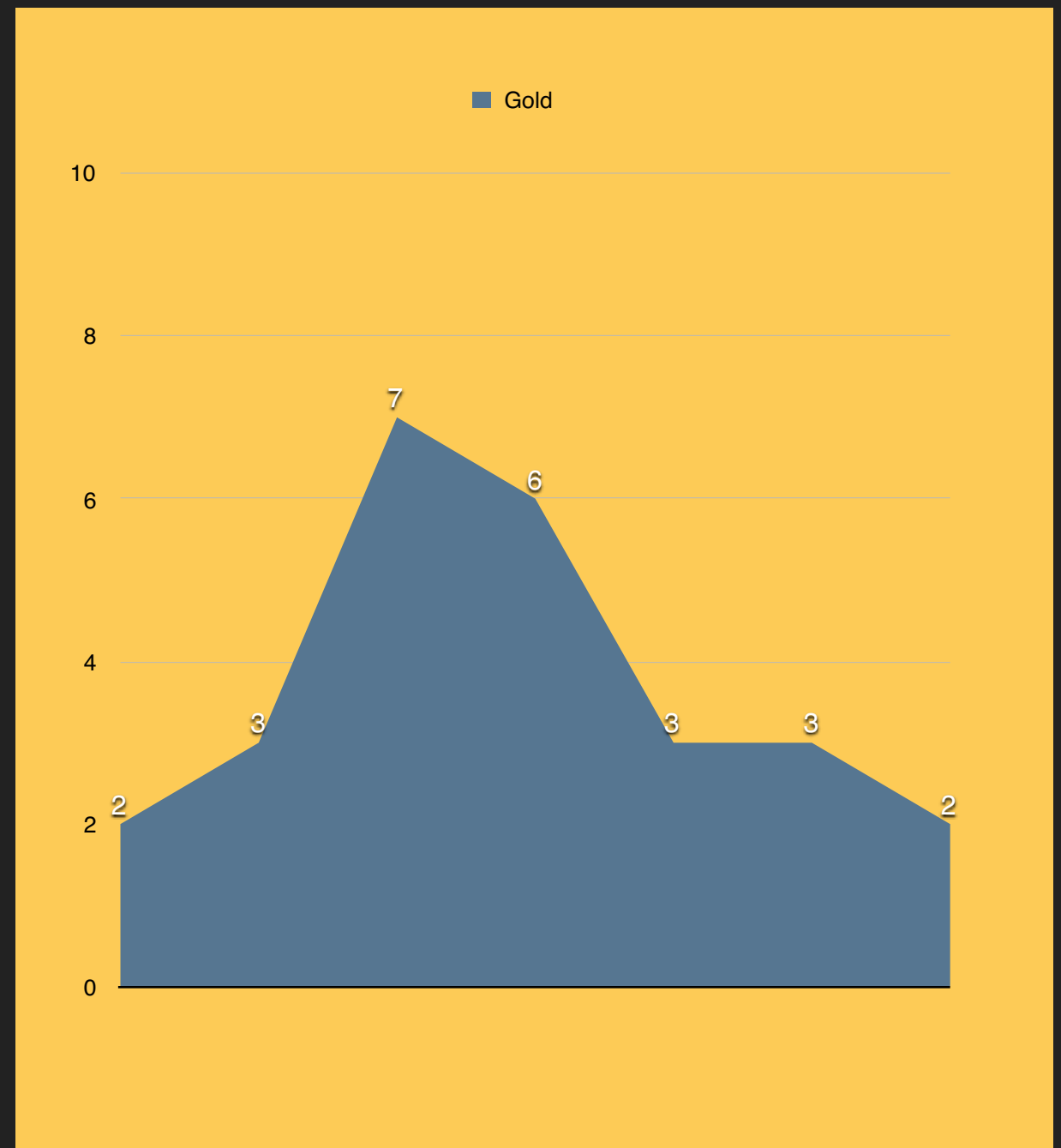
MEAN, MEDIAN AND RANGE OF POLAND'S OLYMPIC PERFORMANCES

Poland averages 13.714 medals per Olympics. Poland averages 3.714 gold medals per Olympics.

Poland's median was their performance in 2000, earning 14 medals, 6 of them being gold medals.

Poland's range of medals goes from 10 medals in 2004-2012 to 19 medals in 1992, going up by 90%.

Poland's range of gold medals goes from 2 medals in 1988 & 2012 to 7 medals in 1996, going up by 285%.





WINNER

IT WAS A TIGHT FINISH BETWEEN POLAND AND GERMANY BUT WE ARE GIVING THE PRIZE TO GERMANY BECAUSE THEY HAVE A HIGHER RECOGNITION THAN POLAND DOES ON THE WORLD STAGE.

THEY ALSO CAN PRODUCE ATHLETES IN ALL AREAS AND NOT JUST FIGHTING AND RUNNING LIKE POLAND DOES.

GERMANY WINS!

Fredrik Holmstrom

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