The Markets and Black Swan Theory

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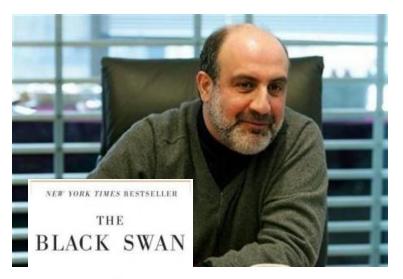
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Introducing Nassim Nicholas Taleb



- Born in 1960 in Amioun, Lebanon.
- Has been a Professor, Wall Street
 Trader and Hedge Fund Manager.
- Author of The Black Swan, a New York Times Best Seller.
- Currently working with the IMF to indentify and mitigate tail risks in Financial Markets.



Nassim Nicholas Taleb





Introducing Black Swan Theory



The theory was developed by Nassim Nicholas Taleb to explain:

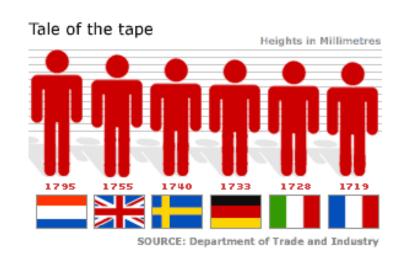
The disproportionate role of highimpact, hard to predict, and rare events that are beyond the realm of normal expectations in history, science, finance and technology.





Mediocristan

- Round up everyone in this room and have them stand next to each other.
- Imagine you then add to our group there is the tallest person in the world.
- They will make up a extremely small part of the total %.





Supreme Law of Mediocristan

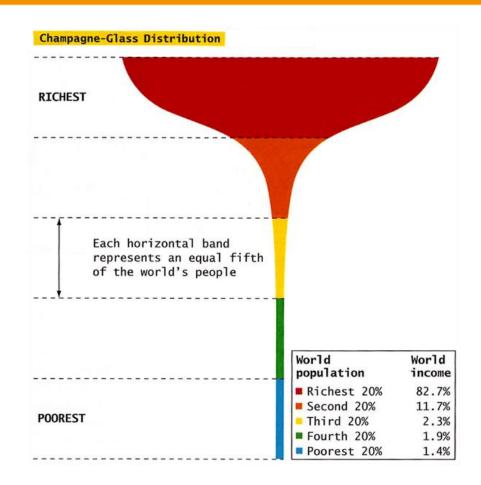
When your sample is large, **no single instance will significantly change** the aggregate of the total.





Extremistan

- Round up everyone in this room, add the richest person in the world.
- They will make up 99.9999% of the total wealth of the group.
- For someone's height to represent this share, they'd have to be 50,000x taller than the tallest person.







Supreme Law of Extremistan

Inequalities are such that **one single observation can disproportionately impact the aggregate**, or the total.





Impacts on the Bell Curve

The odds of being rich in Europe

FACTUAL DISTRIBUTION

People with a net worth

Higher than €1 million: 1 in 63

Higher than €2 million: 1 in 125

Higher than €4 million: 1 in 250

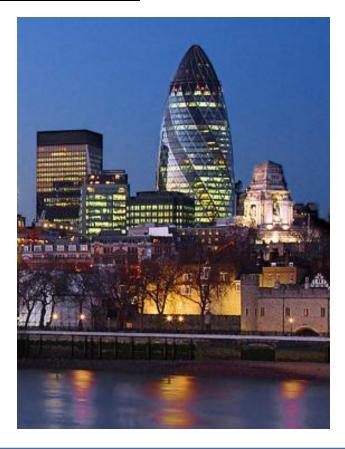
Higher than €8 million: 1 in 500

Higher than €16 million: 1 in 1,000

Higher than €32 million: 1 in 2,000

Higher than €320 million: 1 in 20,000

Higher than €640 million: 1 in 40,000







Impacts on the Bell Curve

The odds of being rich in Europe

GAUSSIAN LAW DISTRIBUTION

People with a net worth

Higher than €1 million: 1 in 63

Higher than €2 million: 1 in 127,000

Higher than €3 million: 1 in 14,000,000,000

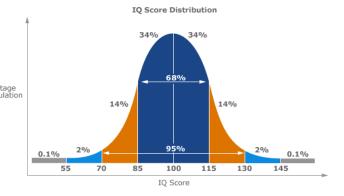
Higher than €4 million: 1 in 886,000,000,000,000

Higher than €8 million:

1 in 16,000,000,000,000,000,000,000,000,000

Higher than €16 million: 1 in . . . my computer isn't capable of

handling the computation.

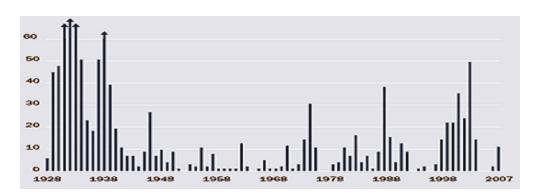






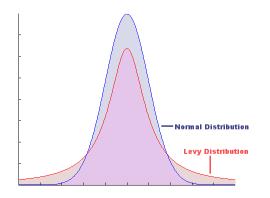
Impacts on the Bell Curve

Clearly the Bell Curve Doesn't Apply to Financial Markets



 Number of trading days in which the S&P 500's volatility was over 2% from January 1928 to October 2007.

Source: S&P 500, Charles Schwab



The Financial Markets operate in

Extremistan





Nassim's Performance

 Became Financially Independent after the 1987 crash.



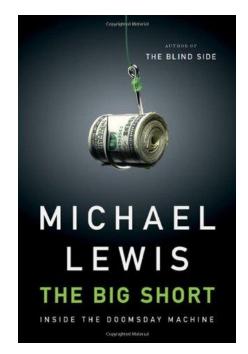
- Made a multi-million dollar return from the crash in 2007
- Funds which he advises for, run by Universa, returned 65% to 115% in October of 2008 alone.
- Assets under management (AUM) at Universa in 2009 were \$300,000,000. Return since inception has been \$2,000,000,000.





Other Hedge Funds Performance

- Founded in 2003 by then 30 year old James Mai and Charles Ledley with \$110,000 in capital.
- •Strategy was to invest in companies worldwide which they believed were undervalued due to the inability of the market to account for sudden and unexpected change.
- Within 2 years they grew the \$110,000 to \$15,000,000.
- In 2010, \$200,000,000 to \$300,000,000.





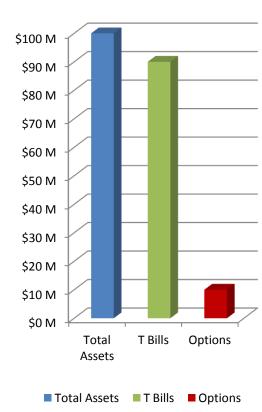




Mimicking Nassim

Why isn't everyone doing this?

- Involves a massive amount of patience.
- Fund keeps more than 90% of assets in cash or cash equivalents, earning a small amount of interest or losing a small amount of money most months.
- Fund buys way out of the money calls and puts and requires a decline of 20% or more in a month to be valueable.



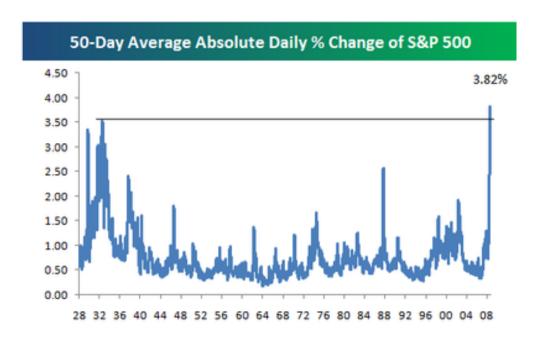






Mimicking Nassim

Why isn't everyone doing this?







Takeaways

• When evaluating outcomes to a particular event, identify whether you are in Mediocristan or Extremistan.

• Remember it's not a matter of "if", but a matter of "when" the next Financial catastrophe will happen.

 Nassim's solution: Rather than try to predict and prevent the next crisis, make society and portfolios "Black Swan Robust".







Takeaways

Imagine a speck of dust next to a planet a billion times the size of the earth. The speck of dust represents the odds in favor of your being born; the huge planet would be the odds against it. So stop sweating the small stuff. Don't be like the ingrate who got a castle as a present and worried about the mildew in the bathroom. Stop looking the gift horse in the mouth—

remember that you are a Black Swan.





Thank You for your Time

Questions?



