

### Luck or Hard Work

Absolute Success (काल्पनिक) is Luck (भाग्य). Relative Success (सापेक्ष सफलता) is Hard Work (कठोर परिश्रम), Choice (चुनाव, विकल्प) & Habits (आदतें).



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"I Believe in Hard Work and Luck, and that the first often leads to the second." ~ J.K Rowling (Renowned author of Harry Potter).

Luck gives you success directly, but hard work gives you success with a lot of experience, skills and sometimes failure lessons too.

But the fight between luck and hard work does not finish with achievement of the goal, it also plays a crucial part in surviving in that position.

Hard work starts with inspiration, which often comes in the form of luck. So, when we get right down to it, hard work and luck are inseparable. Luck and hard work are connected in many ways. When a person adds to their skill set by practice, active learning, and dedication, they can then be prepared to take advantage of any unexpected opportunities, which could be described as luck. Successful people often are on the move and their self-development is a focus to ensure they are adding to their toolkit.

More than luck, taking a closer look at behaviours and tendencies in successful individual include specific traits. They exhibit persistence, resiliency, courage, and perseverance which may be a better predictor of success. A clear purpose and a drive to transform their lives makes people successful. The ability to be energized by a failure instead of being defeated by a setback keeps these "successful" people open to possibilities. That is when luck may strike.

#### Luck

#### "Luck is believing you're lucky," ~ Tennessee Williams

Buffett has long been a proponent for the role of luck in success. In 1997, Warren Buffett, the famous investor and multi-billionaire, proposed a thought experiment.

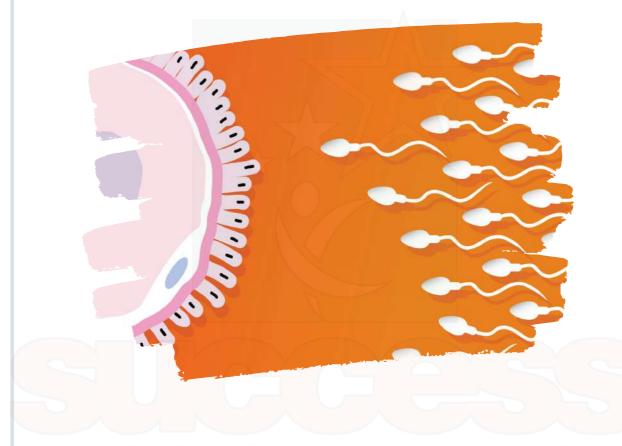
"Imagine that it is 24 hours before you are going to be born," he said, "and a genie comes to you."



"The genie says you can determine the rules of the society you are about to enter, and you can design anything you want. You get to design the social rules, the economic rules, the governmental rules. And those rules are going to prevail for your lifetime and your children's lifetime and your grandchildren's lifetime."

"But there is a catch," he said.

"You don't know whether you're going to be born rich or poor, male, or female, infirm or able-bodied, in the United States or Afghanistan. All you know is that you get to take one ball out of a barrel with 5.8 billion balls in it. And that's you."



"In other words," Buffett continues, "you're going to participate in what I call the Ovarian Lottery. And that is the most important thing that's ever going to happen to you in your life. It's going to determine way more than what school you go to, how hard you work, all kinds of things."

In his 2014 Annual Letter, he wrote, "Through dumb luck, [my business partner] Charlie and I were born in the United States, and we are forever grateful for the staggering advantages this accident of birth has given us." When explained in this way, it seems hard to deny the importance of luck, randomness, and good fortune in life. And indeed, these factors play a critical role. Now let us consider a second story!

# Hard Work - The Story of Project 523

In 1969, during the fourteenth year of the Vietnam War, a Chinese scientist named Tu Youyou was appointed the head of a secret research group in Beijing. The unit was known only by its code name: Project 523.



China was an ally with Vietnam, and Project 523 had been created to develop antimalarial medications that could be administered to the soldiers. The disease had become a huge problem. Just as many Vietnamese soldiers were dying from malaria in the jungle as were dying in battle.

Tu began her work by looking for clues anywhere she could find them. She read manuals about old folk remedies. She searched through ancient texts that were hundreds or thousands of years old. She traveled to remote regions in search of plants that might contain a cure.

After months of work, her team had collected over 600 plants and created a list of almost 2,000 possible remedies. Slowly and methodically, Tu narrowed the list of potential medications down to 380 and tested them one-by-one on lab mice.

"This was the most challenging stage of the project," she said. "It was a very laborious and tedious job, in particular when you faced one failure after another."

Hundreds of tests were run. Most of them yielded nothing. But one test - an extract from the sweet wormwood plant known as qinghao - seemed promising. Tu was excited by the possibility, but despite her best efforts, the plant would only occasionally produce a powerful antimalarial medication. It will not work always.

Her team had already been at work for two years, but she decided they needed to start again from the beginning. Tu reviewed every test and re-read each book, searching for a clue about something she missed. Then, magically, she stumbled on a single sentence in **The Handbook of Prescriptions for Emergencies**, an ancient Chinese text written over 1,500 years ago.

The issue was heat. If the temperature was too high during the extraction process, the active ingredient in the sweet wormwood plant would be destroyed. Tu redesigned the experiment using solvents with a lower boiling point and, finally, she had an antimalarial medication that worked 100 percent of the time.

It was a huge breakthrough, but the real work was just beginning.

### The Power of Hard Work

With a proven medication in hand, it was now time for human trials. Unfortunately, there were no centers in China performing trials for new drugs at the time. And due to the secrecy of the project, going to a facility outside of the country was out of the question.



They had reached a dead end.

That is when Tu volunteered to be the first human subject to try the medication. In one of the boldest moves in the history of medical science, she and two other members of Project 523 infected themselves with malaria and received the first doses of their new drug.

It worked.

However, despite her discovery of a breakthrough medication and her willingness to put her own life on the line, Tu was prevented from sharing her findings with the outside world. The Chinese government had strict rules that blocked the publishing of any scientific information.

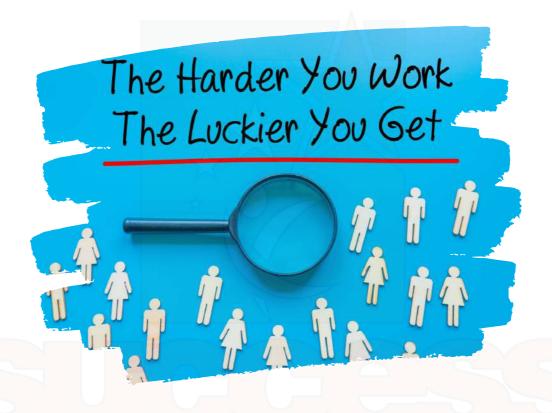
She was undeterred. Tu continued her research, eventually learning the chemical structure of the drug - a compound officially known as artemisinin - and going on to develop a second antimalarial medication as well.

It was not until 1978, almost a decade after she began and three years after the Vietnam War had ended, that Tu's work was finally released to the outside world. She would have to wait until the year 2000 before the World Health Organization would recommend the treatment as a defense against malaria.

Today, the artemisinin treatment has been administered over 1 billion times to malaria patients. It is believed to have saved millions of lives. Tu Youyou is the first female Chinese citizen to receive a Nobel Prize, and the first Chinese person to receive the Lasker Award for major contributions to medical science.

### Luck or Hard Work?

Tu Youyou was not fabulously lucky. My favorite fact about her is that she has no postgraduate degree, no research experience abroad, and no membership in any of the Chinese national academies - a feat that has earned her the nickname "The Professor of the Three No's".



But she was a hard worker. Persistent. Diligent. Driven. For decades she did not give up and she helped save millions of lives as a result. Her story is a brilliant example of how important hard work can be in achieving success.

Just a minute ago, it seemed reasonable that the Ovarian Lottery determined most of your success in life, but the idea that hard work matters feel just as reasonable. When you work hard you typically get better results than you would with less effort. While we can't deny the importance of luck, everyone seems to have this sense that hard work really does make a difference.

So, what it is? What determines success? Hard work or good fortune? Effort or randomness? I think we all understand both factors play a role, but I'd like to give you a better answer than "It depends."

Here are two ways I look at the issue.

### Absolute Success vs. Relative Success

One way to answer this question is to say: Luck matters more in an absolute sense and hard work matters more in a relative sense.

The absolute view considers your level of success compared to everyone else. What makes someone the best in the world in a particular domain? When viewed at this level, success is nearly always attributable to luck. Even if you make a good initial choice - like Steve Jobs choosing to start his new venture - you cannot understand all the factors that cause world-class outcomes.

As a rule, the wilder the success, the more extreme and unlikely the circumstances that caused it. It's often a combination of the right genes, the right connections, the right timing, and a thousand other influences that nobody is wise enough to predict. Then there is the relative view, which considers your level of success compared to those like you. What about the millions of people who received similar levels of education, grew up in similar neighborhoods, or were born with similar levels of genetic talent? These people aren't achieving the same results. The more local the comparison becomes; the more success is determined by hard work. When you compare yourself to those who have experienced similar levels of luck, the difference is in your habits and choices.

Absolute success is luck. Relative success is choices and habits.

There is an important insight that follows naturally from this definition: As outcomes become more extreme, the role of luck increases. That is, as you become more successful in an absolute sense, we can attribute a greater proportion of your success to luck.

# Both Stories are True

Sometimes people have trouble simultaneously holding both insights. There is a tendency to discuss outcomes in either a global sense or a local sense.

The absolute view is more global. What explains the difference between a wealthy person born in America and someone born into extreme poverty and living on less than \$1 per day? When discussing success from this angle, people say things like, "How can you not see your privilege? Don't you realize how much has been handed to you?"

The relative view is more local. What explains the difference in results between you and everyone who went to the same school or grew up in the same neighborhood or worked for the same company? When considering success from a local viewpoint, people say things like, "Are you kidding me? Do you know hard I worked? Do you understand the choices and sacrifices I made that others didn't? Dismissing my success as luck devalues the hard work, I put in. If my success is due to luck or my environment, then how come my neighbors or classmates or coworkers didn't achieve the same thing?"

Both stories are true. It just depends on what lens you are viewing life through.

## The Slope of Success

There is another way to examine the balance between luck and hard work, which is to consider how success is influenced across time.

Imagine you can map success on a graph. Success is measured on the Y-axis. Time is measured on the X-axis. And when you are born, the ball you pluck out of Buffett's Ovarian Lottery determines the Y-intercept. Those who are born lucky start higher on the graph. Those who are born into tougher circumstances start lower.

Here is the key: You can only control the slope of your success, not your initial position.

With a positive slope and enough time and effort, you may even be able to regain the ground that was lost due to bad luck. This quote summarized it well: "The more time passes from the start of a race, the less the head-start others got matters." This is not always true, of course. A severe illness can wipe out your health. A collapsing pension fund can ruin your retirement savings. Similarly, sometimes luck delivers a sustained advantage (or disadvantage). In fact, one study found that, if success is measured by wealth, then the most successful people are almost certainly those with moderate talent and remarkable luck.

In any case, it is impossible to divorce the two. They both matter and hard work often plays a more important role as time goes on.

This is true not only for overcoming bad luck, but also for capitalizing on good luck. Bill Gates might have been incredibly fortunate to start Microsoft at the right time in history, but without decades of hard work, the opportunity would have been wasted. Time erodes every advantage. At some point, good luck requires hard work if success is to be sustained.

### How to Get Luck on Your Side

Luck is out of your control. Even so, it is useful to understand the role it plays and how it works so you can prepare for when fortune (or misfortune) comes your way.

You can increase your surface area for good luck by taking action. The forager who explores widely will find lots of useless terrain but is also more likely to stumble across a bountiful berry patch than the person who stays home. Similarly, the person who works hard, pursues opportunity, and tries more things is more likely to stumble across a lucky break than the person who waits. Gary Player, the famous golfer, and winner of nine major championships, has said, "The harder I practice, the luckier I get."



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