Want to get rich quick in the market



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Part 1: Understand the role of luck

Part 2: Build focused, long-term thinking

Part 3: Determine your expected stock market return









Part 1: Understand the role of luck

Part 2: Build focused, long-term thinking

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Learning outcomes

- Learn the best way to think about the stock market
- **Understand variation**
- Open your mind to the role that luck plays in outcomes in life











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- ★ I have a message for you to remember for the rest of your life
 - But you may not like it
- ★ Are you ready?









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- ★ Imagine you were going to a casino for the first time and you tell your friends,
- * "I'm going to get rich in that casino."









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- You are so confident that you ask your family and friends,
- ★ "Give me all the money you have I'm going to use it to place bets at the casino and get us rich!"







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- Is that the right mentality to have when you go to a casino?
- ★ Of course not!
- You could lose all your money in the blink of an eye!





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★ To be successful in the stock market, you must approach it with the right expectations, just as you should a casino





The role of randomness in the stock market

- ★ Randomness plays a role in stock market outcomes
 - In anything governed by randomness there will always be winners and losers
- ★ But there is no way to guarantee that YOU will be that winner









There is randomness in the stock market

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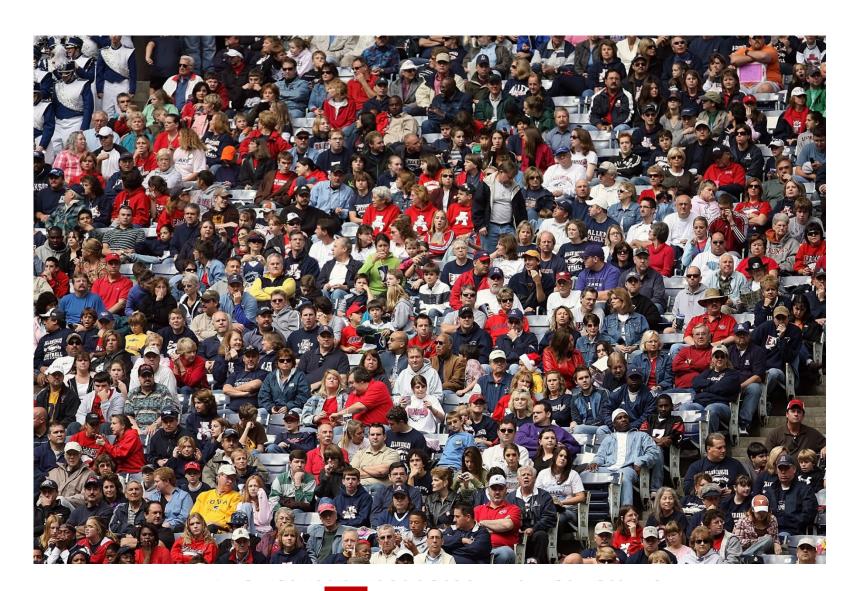
- ★ As with everyday life, randomness oftentimes plays a major role
- Let's make sure we thoroughly understand randomness







Imagine a stadium filled with 10,000 people



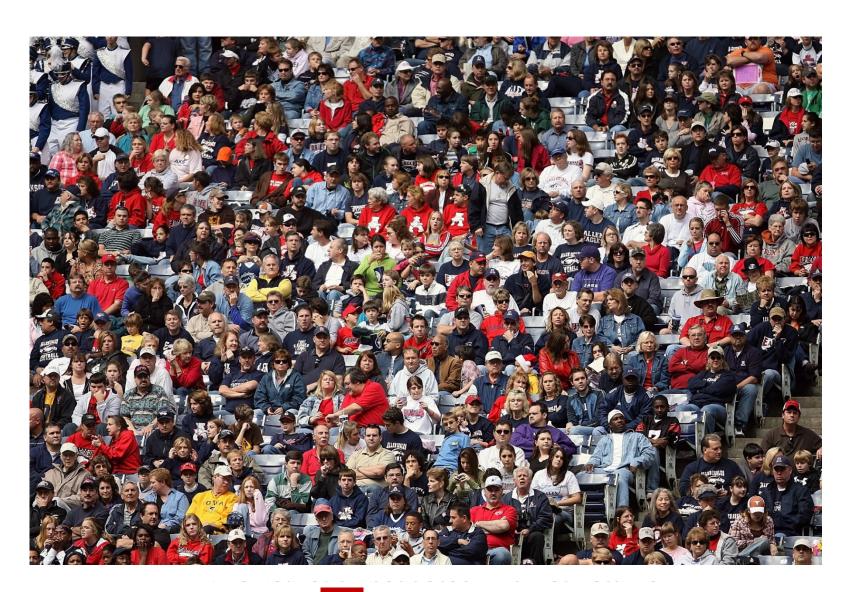








Let's ask them to stand up to play a game











Then tell them the game is flipping coins











And that tails are bad, heads are good

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Tails = bad

Heads = Good





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- ★ The winners will be those who flipped heads the greatest number of times in a row
 - If anyone breaks their consecutive flipping, they are out of the game and must sit down





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★ For example, assume someone flipped heads, then heads again, but then tails; they would be out of the game and would sit down





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★ The biggest losers will be those who flipped tails the greatest number of times in a row





★ For example, if they flipped tails, then tails, but then heads; they would be out of the game and would sit down









We ask them to make their first flip











What should be the outcome?

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About half of them should have flipped heads and half tails







Then we tell them

- ★ If you flipped tails move to the left side of the stadium
- ★ If you flipped heads move to the right side

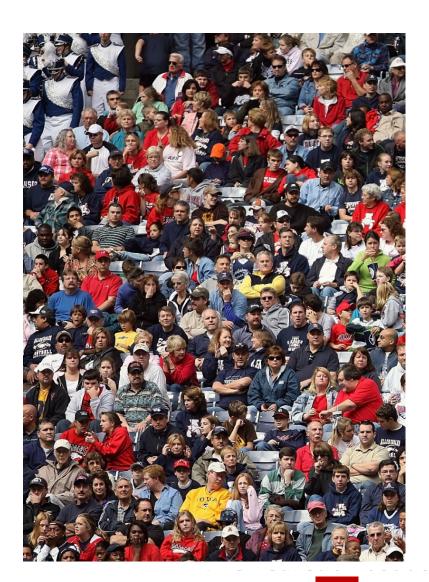
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There will be 5,000 on both sides













What does the stadium look like now?

- ★ 5,000 tails flippers on the left, and
- ★ 5,000 heads flippers on the right







Then we ask them to make their second flip











What should be the outcome of the 2nd flip?

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- ★ About half of the 5,000 head flippers will flip tails
 - Too bad, they are out of the game and must sit down







What should be the outcome of the 2nd flip?

- ★ This will leave 2,500 people who flipped heads twice in a row – consecutively
- * Results should be the same for tails









Here's the stadium after the 2nd flip







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★ 2,500 on both sides







We ask those standing to make their 3rd flip











What should be the outcome of the 3rd flip?

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- ★ About half of the 2,500 head flippers will flip tails
 - Too bad, they are out of the game and must sit down







What should be the outcome of the 3rd flip?

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- ★ About half of the 2,500 tail flippers will flip heads
 - Too bad, they are out of the game and must sit down







What should be the outcome of the 3rd flip?

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★ This leaves 1,250 people standing who flipped heads consecutively and the same for tail flippers





Here's the stadium after the 3rd flip







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★ 1,250 on both sides







We ask those standing to make their 4th flip











What should be the outcome of the 4th flip?

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- ★ About half of the 1,250 head flippers will flip tails
 - Too bad, they are out of the game and must sit down







What should be the outcome of the 4th flip?

- ★ This leaves 625 people who flipped heads consecutively
- ★ Results should be the same for tail flippers









Here's the stadium after the 4th flip







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★ 625 on both sides





Here's the stadium after the 5th flip



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★ 313 on both sides











Here's the stadium after the 6th flip



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★ 156 on both sides











Here's the stadium after the 7th flip



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★ 78 on both sides











Here's the stadium after the 8th flip



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★ 39 on both sides











Here's the stadium after the 9th flip



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★ 20 on both sides











Here's the stadium after the 10th flip



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★ 10 on both sides











We now have 10 winners on the right side



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★ 10 on both sides









What part did random variation play in this?





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★ What do you think?







How would the finalists answer this question?

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★ "How did you do it?!"







Understanding random variation

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★ What is most interesting to the human mind, the average outcome or the extreme outcome?





Understanding random variation

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- People tend to focus on the extreme outcomes because they are more interesting
- ★ But usually those extreme outcomes have no more meaning than the average outcomes







Randomness produces winners and losers

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- ★ This exercise shows us that even in a game based completely on chance there will always be winners and losers
 - Even extreme winners and losers







Randomness produces winners and losers



- ★ We also acknowledge that this randomness is underlying much of the outcomes that happen in life
 - Of course, the role of luck in life is much harder to detect, but it is there







Randomness produces winners and losers

★ The challenge is to try to answer this question...









Answer this question

★ What role does randomness play in the outcomes in the stock market?









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