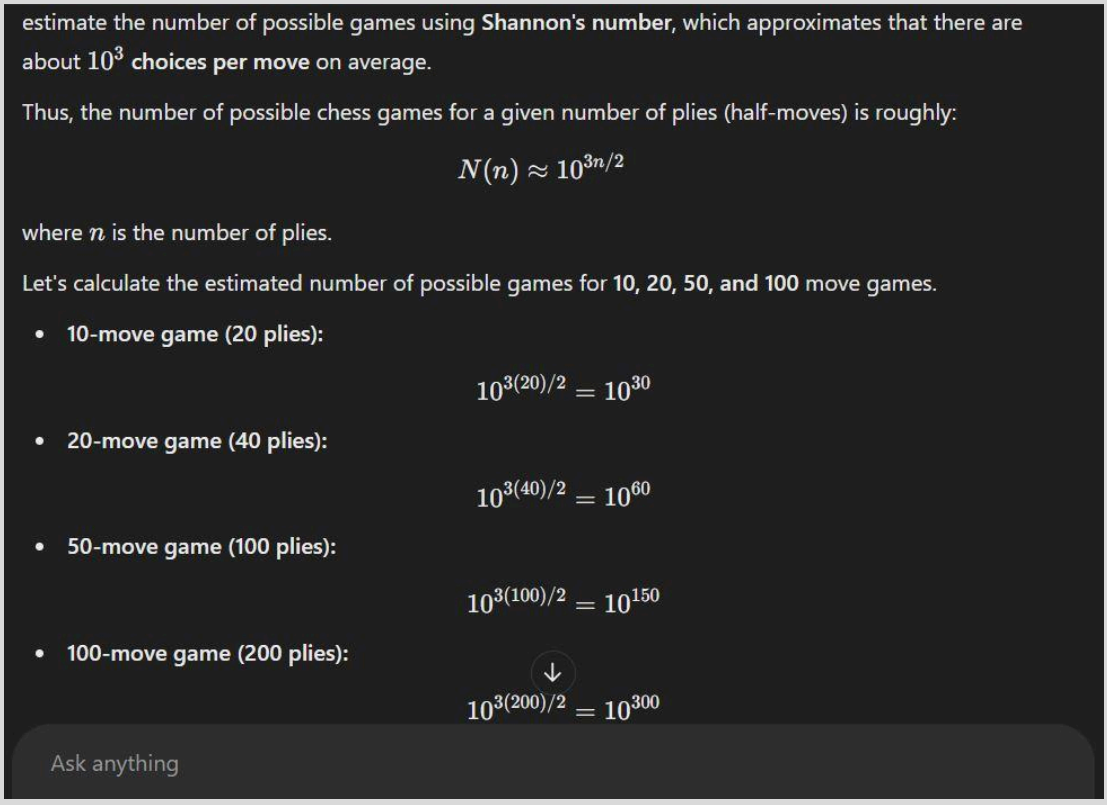
CTW L FSIQ Debunk

By HelloThere1089

This is going to be a fairly short doc. I will be debunking a feat of CTW L which is mentioned in this doc.

Orthogonal Crazyhouse Chess Feat Debunk

First of all let's understand what the phrase "seeing x moves ahead" means. Magnus Carlsen, the current peak of humanity can see 15 to 20 moves ahead allegedly. Most grandmasters claim they usually see 3,4,5, or even 10 moves ahead when they are forced situations. This simply means that they see a few ways the next 3 to 20 moves can go. This is because with only 2 moves there are 400 ways a game can go. I doubt people compute 400 possible combinations before starting a game in seconds. That would be superhuman already and beyond what actual human calculators can do.

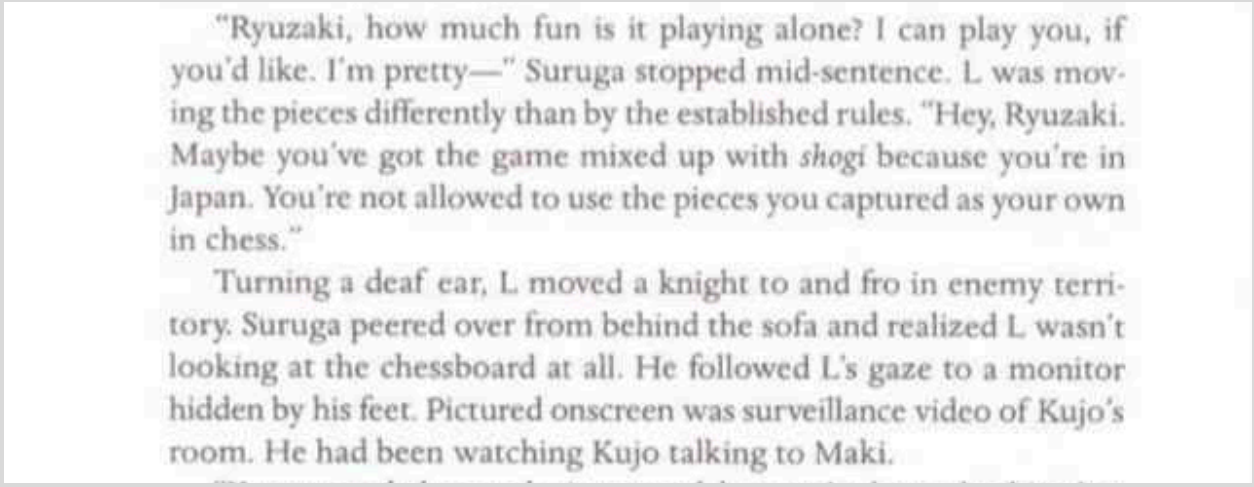


I hate to use AI for this, but something is better than nothing. As you can see a 10 move game along is somewhere around 10^30 possible combinations. I doubt any human can do that. Usually when people say they "see x moves ahead" they usually mean they see a few combinations of x moves. That's all. So at the minimum we can say they thought about x moves. The feat in question however stems from this statement in the novel:

> "What was already written in the Death Note could not be altered. I knew that the U.S. government and the FBI were wary of my connection with the Death Note. I withheld this information about the mistaken date from my report so I might use it in an emergency. Also, that threat to force the president to launch nuclear weapons isn't possible either. The Death Note cannot be used to kill in a way that involves killing others. I neglected to include that detail in the report as well..."
>
> Though the trick was now clear, Suruga was not yet entirely satisfied. "Then why didn't you say as much to the president? That both Death Notes had been destroyed and that the person threatening the president was a fake L. It was hardly necessary to go along with the impostor's methods. We were nearly killed because of it."
>
> L did not offer an answer as he trained his sights on the road ahead. To Suruga, L seemed to be studying a chessboard and looking hundreds of moves ahead.
>
> L 02-3 Hope

It mentions L looking hundreds of moves ahead. This would only mean that L computed at the minimum 200 moves. It is nowhere near the proposed 9.546887x10^273 computations in the doc. This would only be true if it were stated in the novel that L looked into all possible combinations of the next 100 moves. However nothing like that is stated. So this debuffs L's CPI from doing 10^273 computations to 200 computations as a conservative estimate. The doc also mentions L visualizing 10^273 chess boards which is again never stated. Note that 200 moves is still a superhuman feat in **CPI** and **VSI**.

4D Visualization Debunk



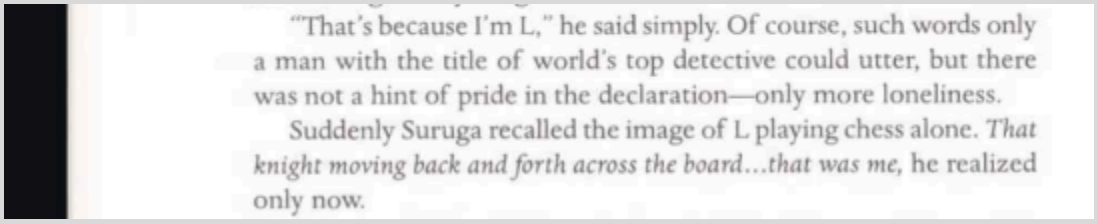
"Ryuzaki, how much fun is it playing alone? I can play you, if you'd like. I'm pretty—" Suruga stopped mid-sentence. L was moving the pieces differently than by the established rules. "Hey, Ryuzaki. Maybe you've got the game mixed up with *shogi* because you're in Japan. You're not allowed to use the pieces you captured as your own in chess."

Turning a deaf ear, L moved a knight to and fro in enemy territory. Suruga peered over from behind the sofa and realized L wasn't looking at the chessboard at all. He followed L's gaze to a monitor hidden by his feet. Pictured onscreen was surveillance video of Kujo's room. He had been watching Kujo talking to Maki.

Apparently some people use the statement of L not looking at the chessboard while moving his knight back and forth as an argument for 4D visualization. I'd like to point out a couple of things here:

1. L is moving his Knight back and forth.
2. L is not looking at the chessboard while doing that.

Now I'd like to present another statement from the novel:



"That's because I'm L," he said simply. Of course, such words only a man with the title of world's top detective could utter, but there was not a hint of pride in the declaration—only more loneliness.

Suddenly Suruga recalled the image of L playing chess alone. *That knight moving back and forth across the board…that was me,* he realized only now.

L moving the knight back and forth was not only against the rules (no, that does NOT confirm it was crazyhouse), it was just a metaphor for Suruga from L. Which means at the time he wasn't even playing a real game. He was spacing out. Even if we grant that L was looking at the monitor while simultaneously visualizing the chessboard, that would just be parallel processing and multitasking. Which would be impressive but not comparable at all to visualizing 4 spatial dimensions.

VSI: Lawliet had been capable of visualising the chessboard in Space, as described by him not at all looking at the chessboard, meaning it isn't even in his field of vision. While doing so, he was visualising a 3D being, on a 2D Grid in Space, which isn't possible without the inclusion of the temporal dimension, or Time. And hence it becomes a Space-Time Event, which also isn't possible to describe without the inclusion of Time as a coordinate. Therefore, Lawliet had visualised all 4 coordinates in order to perceive and describe an Event in Space-Time with respect to time, meaning he needed x, y, z, and w, which w = Time obviously. In conclusion, Lawliet had visualised the Temporal Dimension, Described an Event in Space-Time which isn't possible without the inclusion of Time as a dimension.

This is a common argument made in favor of 4D visualization. First of all, popular grandmasters often visualize chess boards in their heads. That is nothing special. Secondly, you can visualize a 3D object in a 2D grid. That's how human visualization and imagination works. The images in our retinas are always 2D. Our imaginations as well are 2D. We might think they are 3D if we rotate them in our heads, or use the different shadows and depth to create a 3D perception, but that doesn't change the fact that it is all 2D. It's similar to a drawing or a video of a 3D object.

Thirdly, a weird nitpick but, you can't really visualize temporal dimensions like that. It would have been one thing if the argument said 4 spatial dimensions with coordinates x, y, z, w, but mentioning a temporal dimension is completely unnecessary. Visualizing an object with 3 spatial dimensions and a temporal dimension would mean someone is visualizing a 3D object with uncountably infinite snapshots simultaneously, while visualizing an object with 4 spatial dimensions would be like visualizing a tesseract. Nothing of that sort is ever stated. L is just visualizing a chessboard. It is very common and probably peak human level with wank.