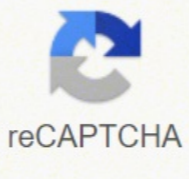




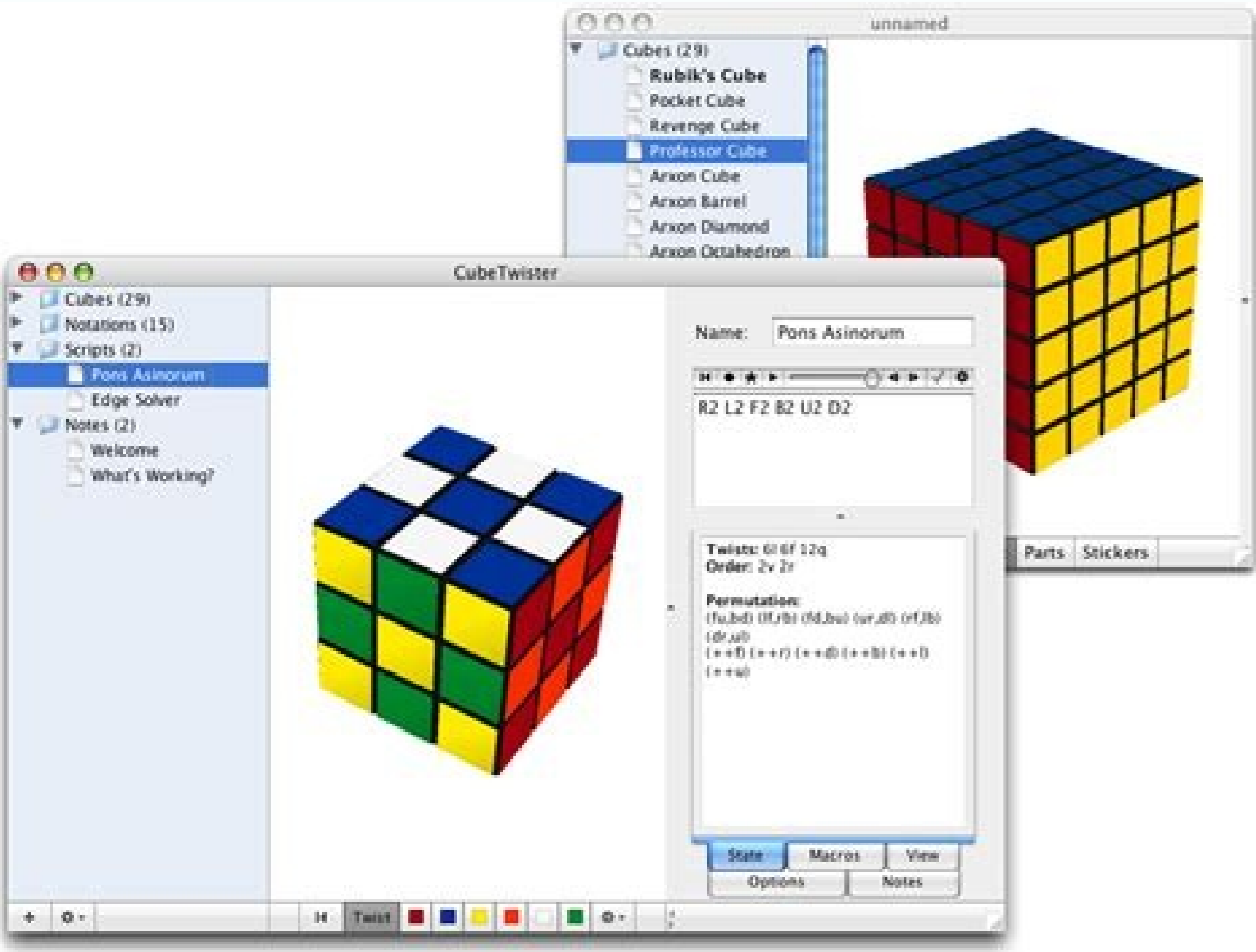
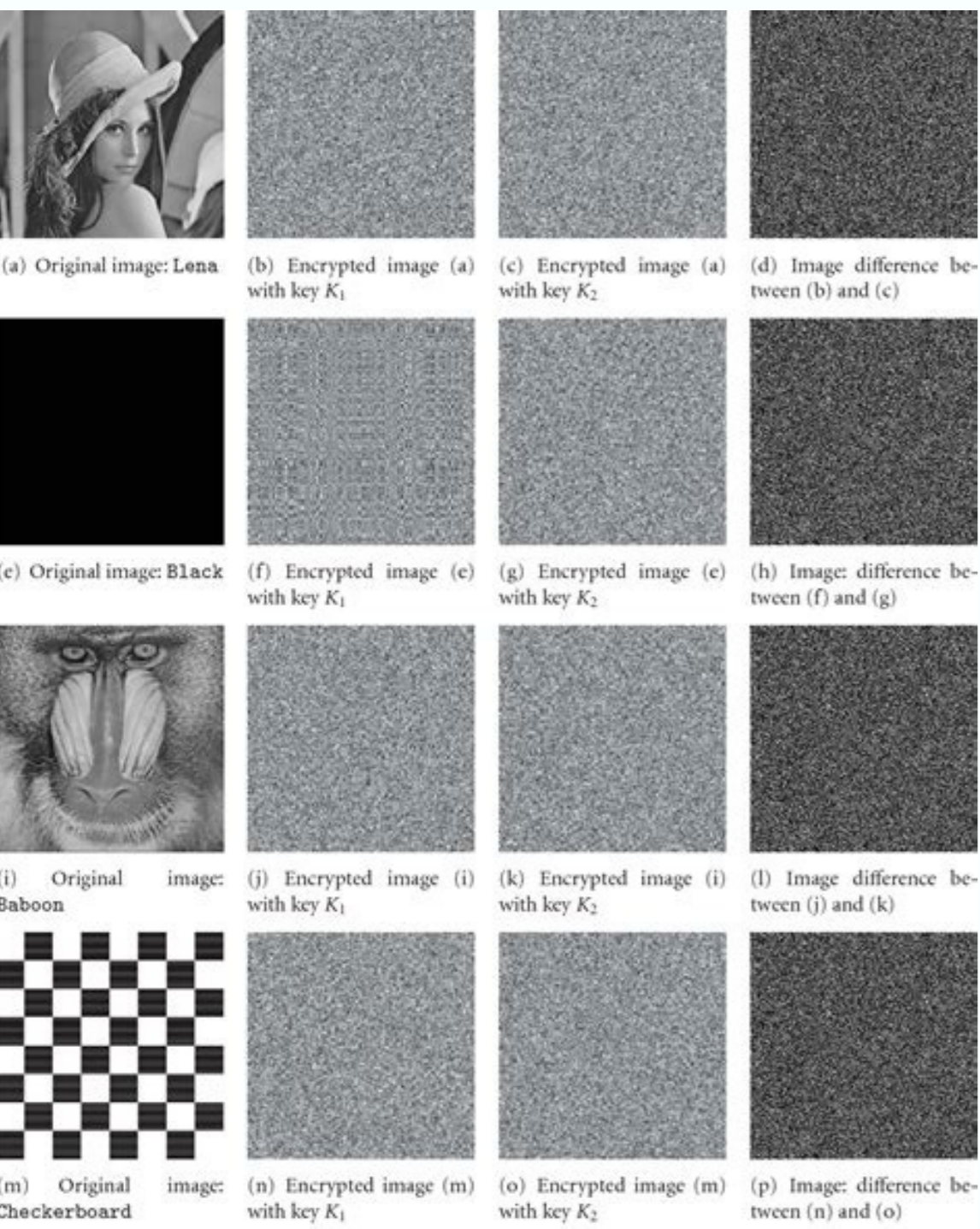
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Rubik's Cube Solution

How to Solve the Rubik's Cube in Seven Steps

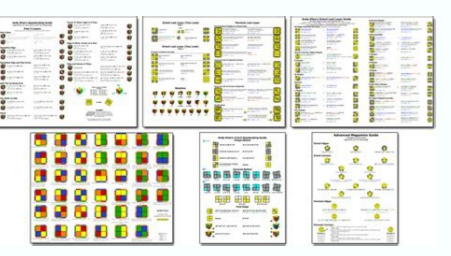
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The world's most famous puzzle, simultaneously beloved and despised for its beautiful simple complexity, the Rubik's Cube has been frustrating gamers since Erno Rubik invented it back in 1974. Over the years many brave gamers have whole-heartedly taken up the challenge to restore a mixed Rubik's cube to its colorful and perfect original configuration, only to find the solution fragmenting just out of their grasp time and time again. After spending hours and days re-trying and turning the colorful cube in vain, many resorted to removing and replacing the multi-colored facets of the cube in a hasty attempt to cheat the seemingly impenetrable logic of the cube, while others simply tossed it to the side and deleted it as impossible. The Rubik's cube, it seemed, had defied all.

Humanity required a solution, so intelligent gamers went to work to take down the so-called "invention cube". Amazingly, not only did they discover a solution, they formulated many of them, ranging from beginner-level to advanced. One of these bright bulbs was Denny Dedmore. Not only did he discover an efficient and fool-proof solution for solving the cube, he also provided several amazing "algorithms" (move-sequences) which made following his solution very simple. Mr. Dedmore completed his now easy-to-master solution by recording the brilliant move sequences found throughout the guide, which made exploring the various moves and turns necessary to solve the Rubik's cube visually understandable.

We are now proud to bring you the stunning Rubik's cube strategy guide originally developed by Denny



Rubik 5x5x5, Rubik 5x5x5.

Park also holds the world record single for one-handed solving at 6.82 seconds set at Bay Area Speedcubin' 20 2019, breaking the longest standing cubing world record which was held by Feliks Zemdegs.[11] Park holds the world records for single and mean of three 6x6x6 solves: 1 minute, 9.51 seconds and 1 minute, 15.63 seconds, set on January 25, 2020, at Houston Winter 2020 and January 22, 2022, at Baton Rouge Winter 2022.[12] Park holds the world records for single and mean of three 7x7x7 solves: 1 minute, 40.89 seconds and 1 minute, 46.57 seconds, set at Cubing Nationals 2019 and Houston Winter 2020 respectively.[13] Park currently holds the world record for average of five Rubik's Cube solves: 5.08 seconds, set at Bay Area Speedcubin' 29 PM 2022, 2019-04-01. A machine has taught itself to solve a Rubik's Cube without human assistance, according to a group of UC Irvine researchers. Two algorithms developed by the researchers, collectively called Deep Cube, typically can solve the 3-D combination puzzle within 30 moves, which is less than or equal to systems that use human knowledge, according to the team's research paper. ^ a b McDuff, Tammye (2016-06-16). "Cerritos Resident is North America's #1 Rubik's Cube Champion". Wondering how people can come up with a Rubik's Cube solution without even looking? Hews Media Group. ^ World Cube Association - Max Park Records ^ World Cube Association - 5x5x5 Records ^ a b World Cube Association - 3x3x3 Most Sub-X Solvers ^ World Cube Association - 3x3x3 One-Handed History ^ World Cube Association - 6x6x6 Records ^ World Cube Association - 7x7x7 Records ^ "World Cube Association - 4x4x4 Average Records". I was careful not to waste any contact paper, since I didn't have much left. I left a little edge all around, to account for human error. His parents, Miki and Schwann Park, were told that he might need lifelong care.[3] Park's motor skills were severely impaired because of his autism and so his mother, Miki Park, taught Park how to solve a Rubik's cube that he had taken interest in. Ultimately, the point of the cube is to make every side monochromatic. After doing that, cut off the tiny, or big, plastic excess edges. At his second competition, he came in first place in the 6x6x6 event. You'll want to solve this yellow side before you complete any other sides. If you don't have Contact Paper, use another type of cold laminating sheet, or you can use old/unused electronic device (iPod, PDA) screen protectors instead (6 of them) ^ "How Rubik's Cubes helped Park with his autism and become a record breaker". It might be easier for you to figure out what to do by seeing it in action rather than reading about it and interpreting diagrams. The machine "plays" with the puzzle and learns how to solve it from any starting point, McAleer said. McAleer and his team, which includes one professor and two other students, submitted their research in May for consideration for publication at the Conference on Neural Information Processing Systems later this year. If the group used a reinforcement learning approach, in which the machine was rewarded for every step it took that brought it closer to solving the puzzle, it would be "impossible for neural networks to know when it's in a good or bad state," McAleer said. The group was inspired by a research paper that used neural networks and an advanced search method called the "Monte Carlo tree search" to teach artificial intelligence to play the strategy board game Go. The group launched the project to push artificial intelligence to go beyond pattern recognition and to reason about problems, McAleer said. "In order to solve the Rubik's Cube, this artificial intelligence has to reason symbolically," he said. ^ World Cube Association - World Championship 2017 podium ^ World Cube Association - Max Park at World Championship 2019 ^ World Cube Association - 3x3x3 Most Sub-X Solvers ^ World Cube Association - 3x3x3 Average Results ^ World Cube Association - Max Park rankings Retrieved from " There are many ways to get to that one solution, so if you master the technique shown to you in instructions, you can try to come up with a new one on your own. "They Said Autism Meant He'd Need Life-Long Care—Then He Got a Rubik's Cube". Note that different instructions may use different symbols to indicate when a specific face is meant to be turned away from you, or inverted. Solve the White Side First: Most Rubik's Cube solution instructions start with a formation called the white cross, which involves lining up white pieces into a cross shape across the up face, or the top layer of the cube. The same is true of Rubik's Cubes. World Cube Association. Retrieved 2020-08-09. He began learning speedcubing and performing at competitions. If you don't have either one, use some thick, clear tape instead. "It has to think about how it's going to manipulate this mathematical structure." McAleer said the next step is to see how the research could be applied in biology, such as in protein folding, the process by which a protein structure assumes its functional shape or conformation. priscella.vega@latimes.com Vega writes for Times Community News American Rubik's Cube speedsolver Max ParkBorn (2001-11-28) 28 November 2001 (age 20)Cerritos, California, United StatesKnown forRubik's Cube Speedsolving Medal record Representing United States Speedcubing WCA World Championship Event 1st 2nd 3rd 3x3x3 1 0 0 4x4x4 1 0 0 5x5x5 1 0 1 6x6x6 1 0 1 7x7x7 1 0 0 2017 Paris 3x3x3 2017 Paris 3x3x3 One-Handed 2 0 0 Total 7 0 2 2017 Paris 3x3x3 2017 Fort Wayne, IN 5x5x5 2017 Fort Wayne, IN 4x4x4 2017 Fort Wayne, IN 3x3x3 2017 Fort Wayne, IN 6x6x6 2017 Fort Wayne, IN 7x7x7 2017 Fort Wayne, IN 2018 Salt Lake City, UT 6x6x6 2018 Salt Lake City, UT 7x7x7 2018 Salt Lake City, UT 3x3x3 One-Handed 2 0 1 Total 11 4 3 2016 Portland, OR 5x5x5 2016 Portland, OR 6x6x6 2016 Portland, OR 7x7x7 2016 Portland, OR 3x3x3 One-Handed 2017 Fort Wayne, IN 7x7x7 Max Park is an American Rubik's Cube speedsolver who currently holds the world record average of five 3x3x3 solves (by WCA standards), 5.08 seconds, set on 3 April 2022 at Bay Area Speedcubin' 29 PM 2022.[1] Prior to Park's average, the record had been held by Tymon Kolasiński of Poland with an average of 5.09 seconds set at Cubers Eve Lubartów 2021.[2] Park was previously the only cuber, other than Feliks Zemdegs, to have set the record since 27 September 2009 until Ruihang Xu broke it on 5 June 2021.[2] He has also set multiple world records in solving the 4x4x4, 5x5x5, 6x6x6, and 7x7x7 cubes, and 3x3x3 one-handed.[2] He has won 339 events across many Rubik's cube competitions.[3][4] Early life Max Park was born on 28 November in the year 2001 in Cerritos, California.[4][5] When Park was two years old, he was diagnosed with moderate to severe autism. If you look at Rubik's Cube instructions, they usually include vocabulary referring to the cube's six faces in addition to things like corner and center pieces. [10] Park was the first person to achieve a sub-10 second one-handed average in competition, with an average of 9.99 seconds on 13 January 2018 at Thanks Four The Invite 2018. Official rankings[19] Event Type Time (sec) World Ranking 2x2x2 Single 2.88 9948th Ao5 4.31 7335th 3x3x3 Single 4.09 3rd Ao5 5.08 1st 4x4x4 Single 16.79 1st Ao5 19.88 1st 5x5x5 Single 33.02 1st Ao5 38.45 1st 6x6x6 Single 1:09.51 1st Ao5 1:15.90 1st 7x7x7 Single 1:40.89 1st Ao5 1:46.57 1st 3x3x3OH Single 6.82 1st Ao5 8.89 2nd Square-1 Single 52.69 9480th Ao5 1:10.20 8473th References ^ a b c World Cube Association - 3x3x3 Records ^ a b Rapson, Jenny (2017-07-29). Using an actual laminator would require you to peel off the back, possibly ripping the paper in half thick wise, and taking some paper with it, leaving the rest at random thicknesses everywhere, not to mention parts of the image. Guinness World Records. The top and bottom, or up and down faces, get solved in a similar way, and the other faces of the cube come together more slowly. Watch TutorialsIf you find written instructions and diagrams for solving Rubik's Cubes to be difficult to follow, look up video tutorials. Using a laminating sheet such as Contact Paper, will help protect the ink from water, body oil in the hands, and scratches. Park holds the world record for average of five 4x4x4 solves: 19.88 seconds, set on April 3, 2022, at Bay Area Speedcubin' 29 PM 2022.[14] He also holds the world record single for the 4x4x4 solve: 16.79, set at Bay Area Speedcubin' 29 PM 2022. Park is the 2-time US National Champion in 3x3x3, 3-time champion in 4x4x4, 2-time champion in 5x5x5, 2018 champion in 6x6x6, 2018 champion in 7x7x7, and 2-time champion in 3x3x3 One-Handed. There are important in-between steps, but you won't solve the cube by trying to individually solve each side. I then pressed against it and down with a square piece of plastic serving as a squeegee to remove air bubbles from the surface. This means all the pieces on the up face, or the side facing upwards, will be white. Conventional wisdom within the Rubik's Cube community holds that it's not cheating to look up solutions. If your not as careful or have plenty of laminating sheet to use, then just place it somewhere on a corner, and cut the paper square out. This record was broken by Patrick Ponce with an average of 8.70 seconds. The Rubik's Cube is more than just a toy; it's a challenging puzzle that can take novices a long time to solve. Another thing to use is an actual laminating machine. Fortunately, there's an easier route to figuring it out, and these tips can help. Know the BasicsIf you've ever put a jigsaw puzzle together, you've probably used words like "edge piece" and "corner piece." These words mean specific things in the context of the puzzle. ^ "The Speed Cubers | Official Trailer | Netflix - YouTube". Retrieved 2020-11-15. At the World Championship 2017 in Paris, Park won 3x3x3 and 3x3x3 one-handed and placed 3rd in 5x5x5 and 6x6x6.[15] At the World Championship 2019 in Melbourne, Park won 4x4x4, 5x5x5, 6x6x6, 7x7x7, and 3x3x3 One-Handed. Retrieved January 29, 2022. Also, you'll only need to laminate the image on one side. Here I used old screen protectors, since I liked the texture they gave once they're finished. Rubik's Cube instructions typically use letter abbreviations to refer to specific faces, so even if you can intuit what's meant by "corner piece" or "center piece," you should still understand that L means left face. www.youtube.com. Some instructions may then have you flip the cube so the white is on the bottom before you proceed. Solve the Yellow Side SecondThe center pieces of a Rubik's Cube remain static, and yellow is always opposite to white. I used the closely and cleanly cut paper, and placed it against a corner in the contact paper, and used a pencil and traced around it. MORE FROM QUESTIONS ANSWERED.NET You'll only need to laminate one side. Cerritos Community News. Make sure the printed out image fits inside the screen protector plastic sheet. I have one, but have not tested laminating my printed out image, since I believe the plastic will be too thick and stiff to effectively use on the cube. After that, I carefully placed the paper in the middle of the peeled off contact paper. After you've done this, you'll need to move corner pieces to allow for the creation of a complete white face. Park finished 4th in the 3x3x3 final after winning the first three rounds.[16] Park is one of two cubers to have solved the 3x3x3 in less than 5 seconds in competition at least five times.[17] and one of the two cubers to have achieved at least five sub-6 second averages of five 3x3x3 solves in competition.[18] In 2020, Max appeared in the Netflix documentary The Speed Cubers, a film about speedcubing largely focus on Feliks Zemdegs and Max Park. For Every Mom. That means that when you flip the cube over to turn the solved white side downward, you'll have a yellow center piece on top. Less than 5.8% of the world's population can solve the Rubik's Cube, according to the Rubik's website. "At first I didn't think it was possible to solve the Rubik's Cube without any human data or knowledge," said Stephen McAleer, a UCI doctoral student. The trick, he said, is to present an advanced computer with a solved Rubik's Cube and let it unscramble the puzzle bit by bit. The researchers call this algorithm "autodidactic iteration," in which the machine works backward to teach itself the moves that solve the puzzle. In the second algorithm, the trained neural networks use the moves learned in the first algorithm to solve the cube. He made progress in social development—such as theory of mind by waiting in a queue and mirroring body language on a podium—at competitions.[6] Career Park currently holds the world record for average of five 3x3x3 solves: 5.08 seconds set at Bay Area Speedcubin' 29 PM 2022.[7] Park holds the world records for single and average of five 5x5x5 solves 33.02 seconds and 38.45 seconds, both set at Florida Big & Blind Time 2022.[8] Prior to Park's first 5x5x5 record, the records for single and the average of five 5x5x5 solves had been held by Feliks Zemdegs of Australia, who had improved the two records a combined 32 times.[9] Park is the only cuber other than Zemdegs to have set either 5x5x5 record since 11 August 2012.[9] Park previously held the world record for average of five 3x3x3 solves with one hand: 9.02 seconds, set on 12 March 2022 at Florida Spring B 2022. Some people may never figure out how to solve without help; don't feel bad if you need extra information. Try to Find Your Own Route to SolvingErno Rubik, the person who invented the Rubik's Cube, took more than a month to figure out how to solve his original puzzle.

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