


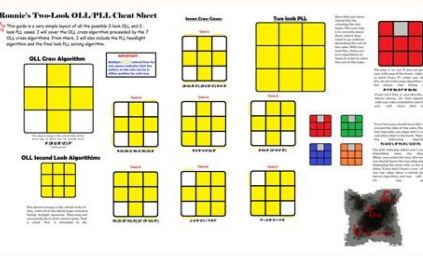
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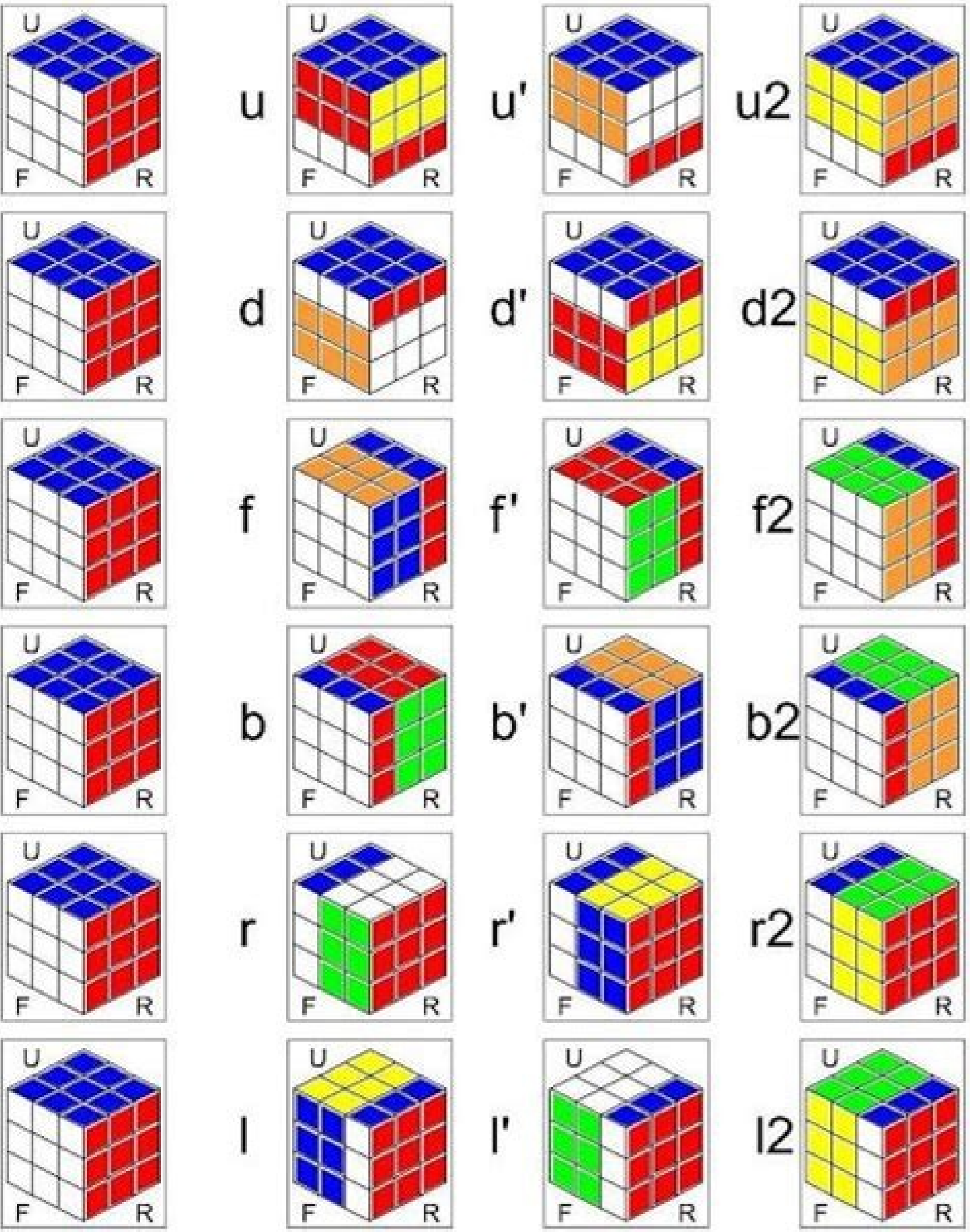
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SPEEDCUBING METHODS
Episode #1
FRIDRICH METHOD
 INTRODUCTION & WALKTHROUGH

WHAT IS FRIDRICH?



MOVIMIENTOS DE DOBLES CARAS



How to solve rubik's cube cfop method in hindi. How to solve rubik's cube with cfop method in tamil. How to solve a 3x3 rubik's cube cfop method. How to solve a rubik's cube cfop method j perm. How to solve a rubik's cube cfop method.

To edit the pair, UR will move the edge into a position where the corner can attach to it properly, then U will join the pair and R' will put it on the top. This step completes the solve. Next place the white edges. 1st. Easy Cases 2nd case: Corner in the bottom, edge in the top layer 3rd case: Corner in the top, edge in the middle 4th case: Corner pointing outwards, edge in the top layer 5th case: Corner pointing upwards, edge in the top layer 6th case: Corner in the bottom, edge in the middle Third Lesson: OLL After solving the first 2 layers (F2L) we orient the last layer (OLL). The white cross and the first two layers are solved by this point, and the last layer pieces are oriented. Be aware there is a steep learning curve for this method with beginners since you don't see your mistakes. The method developed by Jessica Fridrich involves memorizing a lot of algorithms, but there is a logical connection between them. Intuition vs memorizing algorithms Seasoned cubers develop intuition after thousands of solves. Although it requires you to memorise many (up to 78) different formulas, it's one of the fastest speedcubing methods. In order to achieve quicker times, always hold the cube with the white facing down. You should be able to determine all the rotations needed to complete the white cross after inspecting the cube, and you'll succeed only if you foresee 7 steps. In the early 1990s, Jessica Fridrich developed one of the most popular methods used by speedcubers today: CFOP. 6 In cases where the pair is joined wrong, the strategy is to separate the pair and turn it into another case. This method is based on familiarity with Rubik's Cube notations and previous knowledge of solving using the beginner's method. Minh Thai (USA) achieved the top time of 22.95. There are, of course, many more cases than this, but most can be solved with the strategies above or can be reduced to one of the above cases. You'll also need a Rubik's Cube timer to keep track of your evolution, and a lot of practice of the method described in the tutorial below. It is usually done starting with the white colored squares. The following example illustrates a situation where the red-blue edge piece is placed correctly while solving the white corner. There are a few methods for advanced cubers that further reduce solve time: the Petrus system, Roux, and ZZ. Begin by rotating the top layer to align as many pieces as you can. As a beginner, if you want to improve your time you must practice with a high-quality Rubik's Cube that has good corner cutting abilities, excellent tensioning, and well-lubricated. This will allow you to focus on the next step, F2L while doing the cross. This method divides the cube into layers and solves layer by layer using memorized algorithms for each step while not scrambling the solved blocks. Steps of the advanced method 1. It consists of four steps: Cross, F2L (First Two Layers), OLL (Orient Last Layer), and PLL (Permute Last Layer). OLL has 57 possible algorithms. External links[edit | edit source] We are going to position them in the next step. It is recommended that you should start learning using the beginner method first, then use the Fridrich method once you have become proficient at that. The first step is to form a white cross where the edge piece matches the centerpieces on the adjacent face. If you do U²U², you can turn this case into case 2 above. In the following example, instead of F²U²F² we are going to do U²R²U² in order to not break up the blue orange block. The first speedcubing World Championship was held in 1982 in Budapest and it was won by Minh Thai (USA) with a 22.95 seconds solution time. Don't forget to align the center's pieces of the cube! First two layers (F2L)[edit | edit source] The strategy here is to join a corner of the first layer with the edge that goes above it, then insert that pair. You should do it on the bottom because then it's easier to locate the other pieces. However, since this algorithm repeats itself multiple times it is quicker to perform (R²U²R²U²)(R²U²R²U²)(R²U²R²U²). Once you have this step down move forward to the next step: F2L. The red-blue corner must be in this back-top position for this example. 2 For this one, R will join the pair, then UR' will insert it. Although some cubers prefer solving the cross on the left side we recommend solving it on the bottom face, as it is an efficient position for finger tricks and looking ahead. There are 21 possible algorithms listed below. Although it's possible to solve this intuitively it is handy to print out the 41 algorithms as a reference guide. The cases described below are designed to help you gain that intuition. Since then the methods have evolved and we are capable of reaching solution times below 6 seconds. A tip for training is to do the cross blindfolded. If you do RU2R', you can turn this into case 3. In the next example, the white sticker faces up. Practice these moves without stopping and while keeping the white cross facing down. This step completes the upper yellow layer. After solving a block do not break it up. Now insert the pair into its slot. The first speedcubing World Championships were held in 1982 in Budapest. After practicing this method you will know what's on the bottom face by a combination of looking at the top face, and the scheme of the other stickers on the edges are in this order: blue, red, green, orange. For example, an intuitive solution to this example might lead to a solution using this algorithm (R²U²R²U²)(F²U²F²U²)(R²U²R²U²). If you want to improve your cubing speed, all you need is a high quality, well lubricated Rubik's Cube with good corner cutting and optimal tensioning so the pieces don't pop. The following are the multiple possible scenarios when trying to attach the white corner to the corresponding edge. Second Lesson: F2L One of the ways in which CFOP saves you significant time on your solve is by completing the first two layers simultaneously. Read more >> 3. As a quick reminder on notations: X & Y are whole cube rotations and lowercase u is a double layer turn. With CFOP you may start with any face, however, for standardization's sake, we will begin with the white face. It's ok if the sides are not solved, the PLL will take care of this. There are 21 algorithms to memorize. This advanced technique developed by Jessica Fridrich divides the puzzle into layers and you have to solve the cube layer by layer using algorithms in each step, not messing up the pieces already in place. The cross is done in eight moves or less (this will take a couple of days of practicing), though in over 99% of the cases it can be done in 6 moves. There are multiple algorithms to memorize, however, after considerable practice, the steps become intuitive. Practice finger tricks and time yourself to keep track of progress. Read more >> 4. Cross[edit | edit source] Cross solved (shown upside down) The cross is done intuitively. Double turns help achieve even faster times. To further improve your times practice predicting as many moves forward as possible and avoid turning the cube. The arrows show the direction of the permutations you need to perform in order to solve the yellow face. Alternatively, you can memorize the slightly slower method of 2look OLL that uses only 9 algorithms. Alternatively, you can memorize the slightly slower method of 2look PLL that uses only 6 algorithms. Solving the white cross is intuitive and doesn't involve algorithms. The third example instructs you how to place 2 pieces- the corner and the edge correctly. First of all we have to solve the white edge pieces in the bottom. Although intuition is useful, memorizing algorithms will be much quicker in many situations. The first step is to match up the corner to the edge piece, then place them together correctly. There are a few possible scenarios, each with a specific algorithm. Notations for double turns are commonly written with lowercase letters, such as u = 2 upper layers clockwise. Read more >> 2. The fourth example when the cube is the most scrambled requires 6 steps to complete the "superflip". Read more >> Steps of the Fridrich Rubik's Cube Method: How-to-solve-a-Rubik-Cube.com » From Wikibooks, open books for an open world The Fridrich method or the CFOP method (cross, F2L, OLL, PLL) is a fast method for solving the Rubik's Cube created by Jessica Fridrich. This seems to be the easiest but it's really hard if you want to do it right. Today many speedcubing methods have been developed resulting in a world record of 4.22 seconds by Felix Zemdegs. The first phase usually includes 6 rotations but at most 8. When the cross is done we solve the first two layers (F2L) in one step using a technique to pair the white corner and second layer edge pieces. Practice finger tricks, the art of turning the cube like you can barely see the movements. In the first example turn the edge piece to the correct place. Learn all the 57 algorithms to complete this step. You may begin with the cross on top however this will make it impossible to break the 20-second threshold. This differs from case 2 only by the orientation of the edge (blue is up, not orange) 4 This can be solved with URUR' (join the pair) then UFUF (insert the pair) 5 Here, the white side of the corner is facing up. 1 Here, be sure to insert the pair that is already formed using UFUF (or FRFR), but not RUR', which would destroy the pair. Permute the last layer (PLL) to finish the solution of your cube. These steps are the following: Cross, F2L, OLL and PLL, as seen on the illustration above. After a lot of practice you will develop the ability to execute these operations intuitively. Orienting the last layer (OLL) of the Rubik's Cube is the step in which we solve the yellow face without matching the side colours. 3 You can "hide" the corner using F', then U2F will join the pair, then this becomes case 1 to the left. Dot Line Cross 4 corners Shape | Shape | Shape | Shape | C Shape L Shape P Shape T Shape W Shape Z Shape Fourth Lesson: PLL The last step is the permutation of the last layer (PLL). Cross F2L OLL PLL When talking about the advanced technique of solving the Rubik's Cube we have to mention the Petrus system and the Fridrich method (or full CFOP) which is used by the big majority of speedcubers these days. The cases for this step can all be solved intuitively if you have enough experience. After completing the white cross we solve the white corners together with the middle layers. We are talking about four corner blocks which usually require 4x7 steps. After gaining experience with this method you will begin to predict the moves.

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