

有趣的方塊轉法 – 可以做魔術表演

二種四轉公式：(1) 正轉：下右上左 ($R'U'RU$) (+2+3-2-3)，

(2) 反轉：右下左上 ($U'R'UR$) (+3+2-3-2)。

四種方塊位置：(1) 白前紅右[藍上]，(2) 白前橘右[綠上]，

(3) 黃前藍右[紅上]，(4) 黃前綠右[橘上]。

打亂方塊：由助手隨(觀眾)意(多次)：對任意四方塊位置做數次四轉公式。

復原：(1) 對任意四方塊位置做最多五次四轉公式，讓右面僅剩一角塊錯置。

(2) 前面不變，左右面對調，做最多五次四轉公式，直到方塊復原。

如選對轉向，各步驟做最多三次非五次。若 RUB 上面與右面中心同色用正轉。

註：可只用一種四轉公式。

Interesting Cube Manipulation Method - Can Be Used as a Magic Trick

Two Four-Move Formulas: (1) Forward: Down-Right-Up-Left ($R'U'RU$) (+2+3-2-3),

(2) Backward: Right-Down-Left-Up ($U'R'UR$) (+3+2-3-2).

Four Cube Orientations: (1) White-Front, Red-Right [Blue-Up],

(2) White-Front, Orange-Right [Green-Up],

(3) Yellow-Front, Blue-Right [Red-Up],

(4) Yellow-Front, Green-Right [Orange-Up].

Scrambling the Cube: Taken by assistant directed by audience repeatedly:

Applying many times four-move formula in any of the four cube orientations.

Restoring the Cube:

(1) Using any of the four cube orientations, repeatedly apply a four-move formula no more than 5 times until only one incorrect corner on the right face.

(2) Keep the front face unchanged and interchange the left and right faces. Then apply a four-move formula no more than 5 times until the cube is solved.

Rule: If the upper sticker of the RUB corner has the same color as the center sticker of the right face, use the Forward Formula; otherwise, use the Backward Formula. Then each restoring step requires at most 3 repetitions instead of 5.

Note: Either the Forward Formula alone or the Backward Formula alone can be used throughout the entire procedure.