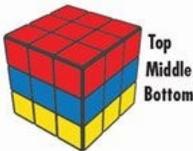


# How To : Solve A Rubik's Cube

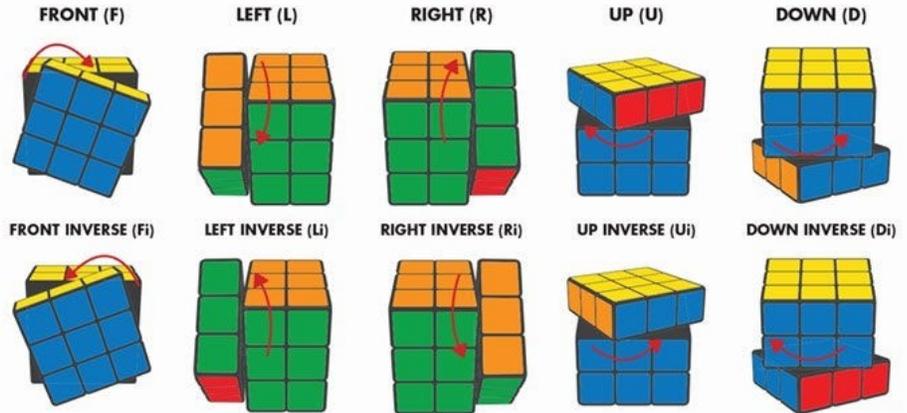
## THINGS TO KNOW BEFORE YOU START

- The square in the middle of one side indicates that sides' colour. eg. green square = green side.
- Always hold the cube so the 'Front' face is towards you when completing moves.
- The 'i' indicates the move is inverted or counter-clockwise in direction.
- Each turn is 1/4 turn rotation/90°.

## LAYERS



## MOVES



## STEP 1: CROSS



- A.** Locate the centre orange square and place that side as the top layer.



- B.** Locate centre orange pieces and rotate so they are in the bottom layer, lining up with it's corresponding colour. Turn F 180°.



- C.** Repeat for other 3 centre pieces until cross is achieved.

### \*COMPLICATION\*



If the piece is switched around, do: F U Li Ui.

## STEP 2: CORNERS



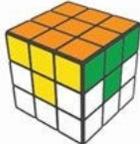
- A.** Locate orange corner piece in bottom layer and rotate to it's corresponding corner colours.

- B.** Do sequence:  
Ri Di R D.

Repeat until orange is in the top layer, correctly placed.



- C.** Repeat for other 3 corners.



## STEP 3: MIDDLE



- A.** Flip the cube - orange layer now on bottom. Find and rotate centre cubes in top layer to match colours with middle layer.

- B.** Use left or right sequence depending on which direction the colour in the top layer needs to go.

Left: Ui Li U L U F Ui Fi  
Right: U R Ui Ri Ui Fi U F

Repeat until middle layer is completed.



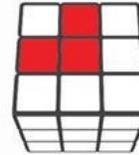
### \*COMPLICATION\*



Colour is switched after completing all sides.

Do left or right sequence and this will bring it to the top layer. Repeat step b.

## STEP 4: TOP CROSS



- A.** Locate L-shape in top layer. Rotate so it's in the top-left corner.

Do: F R U Ri Ui Fi.  
Repeat for horizontal line, and again for cross.



- B.** Rotate top layer until 2 adjacent centre cubes line up with centre cubes of middle layer.

- C.** Place one side at the back and the other on the right-hand-side. Do sequence:  
R U Ri U R U Ri Ui.

All centre cubes will line up with the middle layer.

### \*COMPLICATIONS\*

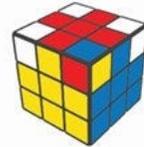
Only **i.** singular cube or, **ii.** horizontal line, in step **A.**

**i.** Do step (a) sequence for L-shape.

**ii.** Do **A** sequence for cross.

Opposite sides match up in step **B** - do sequence in **C** and continue from **B**.

## STEP 5: TOP CORNERS



- A.** Rotate top layer so one corner is corresponding with it's corner colours and place in bottom-right.

- B.** Do sequence:  
U R Ui Li U Ri Ui L.

Repeat sequence if required, keeping the correct corner in the bottom-right, till all corners have corresponding correct colours. Some or all the colours will be scrambled.

- C.** Starting with the bottom right colour, do:  
Ri Di R D.

Repeat until corner is completed. Rotate ONLY the top layer Ui, and repeat sequence for other corners.



- D.** Rotate top and bottom layers to match middle layer colours.

### COMPLETE!

