

### FIRST 2 LAYERS (F2L)

#### Approach

- Solve F2L corner + edge "pairs" in any order
  - Note: This differs from "Layer-by-Layer" methods which solve 4 corners then 4 edges
- Use short sequences of moves consisting of R U L moves and rotations around the y-axis
  - Use a simple right-handed "trigger" and its left-handed "mirror" to complete the F2L

#### **Benefits**

- The right-handed "trigger" and its left-handed "mirror" are easy to understand
- Solving F2L "pairs" rather than "layers" will improve piece "recognition"
- It will be possible to improve / optimise your F2L skills with additional "algorithms"
- Manipulation of F2L "pairs" will be the approach used to solve the last layer





### TERMINOLOGY

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"Pair" – Corner + edge pieces which belong in the F2L

"Pairing" – Joining the corner + edge pieces
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"Slot" – Target location for an F2L pair

"Insert" – Placing an F2L pair into the appropriate slot

"Trigger" - Short sequence of moves often of the form A B A' B'

"Mirror" – Reflected version of a trigger and typically right <-> left

"Execution" – The application of moves... i.e. turns and rotations

"Finger Tricks" – Smooth / efficient execution of a sequence of moves

"AUF" – An abbreviation of "Adjust U-Face"



### SOLVING THE F2L

The basic approach is to "pair" a corner + edge then "insert" them into the appropriate "slot"

**Step 2.1** – Temporarily "solve" the corner piece

Step 2.2 – "Pair" the corner + edge in the U-layer, ready for insertion

Step 2.3 – "Insert" the F2L pair into the appropriate "slot"







### STEP 2.1 – SOLVING THE CORNER

A corner can be "solved" using the right-handed trigger URU'R' or the left-handed mirror U'L'UL

**Setup**: Ensure the sticker matching the cross color is facing front before executing the trigger

**Execution**: Turn the U-layer with your index finger(s)





# STEP 2.1 – TRICKY CORNERS



U' L' U L \* 2



U' L' U L \* 3



U R U' R' \* 2



U R U' R' \* 3

### STEP 2.2 – PAIRING THE EDGE + CORNER

The same triggers can be used to "pair" an edge with its corner

**Setup**: Ensure the edge sticker matches the front center before executing the trigger

**Execution**: Turn the U-layer with your index finger(s)





### STEP 2.2 – TRICKY EDGES

If the edge is already in the correct slot but "badly oriented" the pair needs to be extracted and re-solved

- 1. "Extract" the corner and edge pieces using the standard trigger(s) see below
- 2. Rotate the cube and "solve" the corner i.e. step 2.1
- 3. Rotate the cube and "pair" the edge i.e. step 2.2





### STEP 2.3 – INSERTING THE F2L PAIR

Insert an F2L pair as you would solve a corner in step 2.1

Setup: Ensure the sticker matching the cross color is facing front before executing the trigger

**Execution**: Turn the U-layer with your index finger(s)





## SOLVE THE REMAINING PAIRS!



Practice Makes Perfect