

# Peter Renzland's Elegant Rubik's Cube Solution Method

This 4-step Method uses 3 Transforms: **Corner-Swap**, **Corner-Twist**, **Edge-Swap**.

## Overview:

1. Do White Corners; 2. Place Yellow Corners; 3. Orient Yellow Corners; 4. Do Edges.

## Notation :

The Face **positions** are: Up, Right, Front, Down, Left, Back.

The Face **colours** are: White, Red, Green, Yellow, Orange, Blue.

“**R**” means "turn the **R**ight face clockwise a quarter turn", etc.

“**r**” means "turn **the whole cube**":  $4(\text{Ur}) == \text{UFDB}$ .

## Transforms :

**cs**:  $7(\text{UR})\text{U}$  (URUR URUR URUR URU) (15 turns) **swap 2** (left-down) **corners**  
**ct**:  $12(\text{Ur})$  (UFDB UFDB UFDB) (12 turns) **twist 3** (left) **corners** (right)  
**es**:  $3(\text{UURR})$  (UURR UURR UURR) (6 turns) **swap 2** (up, right) **edge pairs**

## Method :

1. **Do the White Corners** intuitively.

2. **Place the Yellow Corners**: Turn the Yellow face until at most 2 corners are displaced. Place them at Left-Down, and swap them with **cs**.

3. **Orient the Yellow Corners** (on Left face):

If 1 left facelet is yellow, put it at **LEFT**-Up-Back;

else put a yellow facelet at **UP**-Back-Left;

apply **ct**. Repeat step 3 until done. [\*]

4. **Do the Edges**: To move an edge cubie, align it opposite its home cubicle (Up Front-Back); line up a helper edge-pair (already matched, or both still random) alongside (Right Front-Back); apply **es**; invert the line-up turns (having noted their face-colours). Do White, Middle, Yellow.

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[\*] Step 3 Short-Cut: If 1 or 3 **Left** Twists are needed, use the Corner **Left-Twist** Transform:  $12(-r-U)$ .