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 Right face clockwise a quarter turn", **etc**. **"r"** means "turn the whole cube": 4(Ur) == UFDB.

Transforms:

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

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

[2016.11.24 Questions or Comments: peterATdancingDOTorg http://dancing.org/rubik]