

**Rotate Up Face Corners Half-Turn**  $\curvearrowright$   
 [1↔9] [7↔3] Corners Diagonal Exchange.  
 Mid pieces remain fixed.

R'' L'' D R'' L'' U''  
 R'' L'' D R'' L'' U''

**Exchange Up Mid-Pieces:** [2↕8]

All Four Up Corners  $\curvearrowleft$  Counterclockwise

R' U'' R U R' U R U'  
 R' U'' R U R' U R

**Exchange Up Face Corners:**

[1↔3] [7↔9]

Mid Pieces - F R U R' U' R U  
 remain fixed. R' U' R U R' U' F'

	<u>3</u> <u>B</u> <u>1</u>		<u>Up face</u>		Reverse
R	<u>B</u> <u>2</u> <u>B</u> L		<u>1</u> <u>2</u> <u>3</u>		moves:
	<u>4</u> <u>5</u> <u>6</u> R		<u>4</u> <u>5</u> <u>6</u>		same as
R	<u>F</u> <u>8</u> <u>F</u> L		<u>7</u> <u>8</u> <u>9</u>		Clockwise.
	<u>9</u> <u>F</u> <u>7</u>		<u>Front</u>		

Rotate Clockwise Front Center Piece 1/4 turn,  
Counter Clockwise Right Center Piece 1/4 turn:

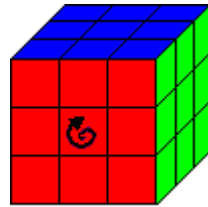


<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>
R' B'	F D'	U L'	R			
8	9	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>
F L	R' D	U' B	F'			

Opposite Rotations:

F B' U D' R L' F'  
 R' L U' D F' B R

Rotate Front Center Piece  
 Clockwise Half-Turn:

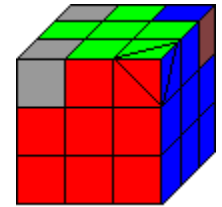
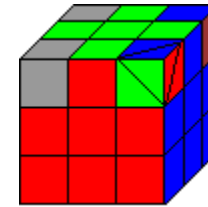


1	2	3	4	5	6''
R L	F R'	L' F''			
7	8	9	<u>10</u>	<u>11</u>	<u>12''</u>
R L	F R'	L' F''			

**“Spin Final Corners”**

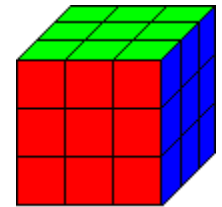
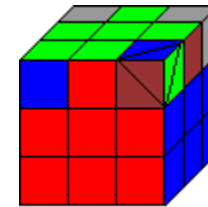
Orange these Two sequences  
 in **Opposite Pairs:**  $\curvearrowright$   $\curvearrowleft$

WC  $\blacktriangle$  is Up Front-Right Corner  
 Rotate “A” corner piece—WC  $\blacktriangle$ :  $\curvearrowright$ lockwise.  
 F D'' F' R' D'' R



Rotate Up face “B” corner to Front R-Corner.  
 Rotate “B” corner—Opposite Direction:  
 $\curvearrowleft$  Counterclockwise.

R' D'' R F D'' F'



Dave’s “Spin Final Corners”

Three sequences **Same Direction:**  $\curvearrowright$   $\curvearrowright$   $\curvearrowright$   
 or Two sequences—**Opposite Pairs:**  $\curvearrowright$   $\curvearrowleft$

$\curvearrowright$ lockwise: --- F D F' D' F D F' D'

$\curvearrowleft$ ounter-CW: D F D' F' D F D' F'