1.	U2 U' F	R2	R2 B R	R2		F2 F'			
2.	U R U	R2 U' B	D B'		R2 L	D U2	F2 L2		
3.	R2		B2 L' R'	U	U2 R	L F	U2 L	F2 U'	
4.			R'			R2 L			
5.	U'	U2 L F'	F'			L2 L'			

1.	R U' R' U' R2 U' F' U' R2 F R2	
2.	U' R' U' F' R U2 F' R2 F U' R	
3.	U2 R' U R2 U' R2 U' F U' R U'	
4.	U F U2 F U' F U' F' R2 U' R'	
5.	R' U' F R U2 R F' R' U R F	

444 Scrambles for 2019-06-02

	D2	F'	<b>E</b> W2	Uw2	12	R'	U	
	DZ I	Fw2	D2	Rw2	L	Uw2	L	
	D	R'	B2	F2	R2	UW	R'	
1.	D'	F2	Rw'	F	R2	FW	R2	
	Fw2	L2	U	L2	B'	Uw2		
	RW	Uw	R	L	B'	UWZ	1 4	
	D2	L	U2	Uw'	 R'	Rw'	Uw'	
	Rw'	FW	L2	R'	Rw'	F'	L	
	Rw'	B	Fw2	R2	F	U2	D	
2.	R	F2	RW	B'	Rw2	Uw2	L	
	U'	Rw2	D'	L2	F2	L	Ew'	
	Rw	UW	L	U	R2	_	1 00	
							Llv./2	
	Uw'	R2 U'	Uw2	D	R2	FW	Uw2	
	Rw'	R'	Fw D'	D U	F2 L'	UW	R2	
3.	UW					RW	Fw2	
	Rw2 B'	Uw2	B'	FW	L2	UW Dw2	R	
		Rw2	L2 D'	D2	U2 U'	Rw2	rw	
	U2	B2						
	U2	В	U'	Rw2	R 	Fw2		
	U2	Uw	Rw	U2	Rw'	Uw	U2	
4.	Rw2	Fw2	R	U2	Fw'	L'	D	
'	L'	Uw .	Rw2	U2	F	Rw2	D2	
	Uw2	Rw'	R'	D'	Fw2	L2	В'	
	Fw'	U2	L'	D'	R			
	Fw'	R2	D'	L'	F'	R'	D'	
	F	В	Rw	D2	U'	R	L2	
_	В	R'	U'	F2	L2	Rw	В'	
5.	Fw	D	В'	Uw	R	L'	Uw'	
	L	Uw'	Fw2	Uw2	R2	D'	Rw2	
	L	В'	Rw'	U2	F2			

	Bw'	Lw'	Bw	Dw2	В'	Rw2	Lw2	В	Rw2	
	Uw	Bw2	F	D2	Lw	D'	Rw'	D2	R	
	Lw'	L'	D2	U2	Uw	Fw'	L	Rw'	Bw'	
1.	В'	Uw'	L'	R2	Dw	Rw'	U2		F'	
'	R'	F'	R	F'	L2	R2	Fw	Dw'	В	
	Lw'	В	Fw'	D	Fw'	Dw		Rw2		
	D'	U	L'	U'		В	0112		•	
	Fw	L'	Lw2	Dw'	Bw	Fw'	Lw'	Uw2	L2	
	U2	Bw2	Rw	R'	В'	Uw2	D	R	Bw'	
	Rw	Lw'	Uw	Dw	Bw'	B2	Uw'	U'	Bw2	
2.	L'	F'	D'	Uw2	Fw2	B2	F'	R	Rw	
	Fw'	D2	Bw'	F'	U'	D2	В	Lw'	R	
	L2	Dw	B2	R2	F2	В	R	Rw2		
	В'	U2	R2	Dw	U2	F2				
	Bw2	Lw2	B2	Fw	L2	В	Uw'	U'	В	
	L'	F	Uw'	Lw'	В	Lw	R'	Rw'	В	
	Lw	Bw2	Uw'	Bw2	Uw	Dw'	L	U	F'	
3.	D	L	Lw	Bw'	F	Lw'	Bw	U'	R'	
	Uw'	Dw2	В	Fw2	Uw	В	L	Dw	L	
	Uw	F'	Rw'	R2	Lw'	Fw2	L2	Uw2	Fw'	
	U'	D	Rw2	D	Bw2	F'				
	Uw	Bw2	В	D	R	Uw2	L2	Bw'	L2	-
	D2	Bw	Lw2	U	Lw2	Dw2	R2	Uw	В'	
	L'	Dw'	U2	Fw	D	Dw	Rw'	L'	Lw'	
4.	U	F2	L2	Rw'	U'	R2	B2	L'	Bw	
	R	Fw	Dw2	F	Lw'	Bw'	Lw'	U'	Fw'	
	L'	D2	F	Fw2	В'	Dw'	F2	Dw'	В'	
	F'	D	Bw'	U'	F2	Lw'				
	Uw'	В'	Fw	Dw2	R	U2	Dw2	1 14 1	L	
	R'	В2	L2	DWZ	Dw2	LW'	FW	L'	∟ Fw	
	D2	FW	L	B2	R2	DW	rw Rw'	Fw2	Uw'	
			R	Б∠ F'		Dw'		L'		
5.	Lw2 U'	B D			D		Fw2 F'		Rw'	
			Fw'	R'	L2	Dw		Bw'	Rw2	
	LW	B'	FW	D2	L'	DW	R	В	R	
	Dw	Rw	B2	F2	R'	Rw'				

$\neg$	10	001	11	- DO	1 !	
	Lw2	3Rw'	Uw	R2	Lw'	F2
	R2	В'	Dw2	L <sub>.</sub>	Lw	3Rw
	В'	F'	Uw2	L'	F	L2
	Uw	R'	3Uw2	Fw2	B2	3Fw
	F2	3Rw2	Dw'	Bw2	R	L'
	Lw'	Rw'	Bw'	Lw2	Uw	Bw2
	D	Dw2	В	3Uw'	R2	B2
1.	R	Dw2	Lw	Rw2	L	Uw2
	Rw2	B2	3Uw'	Uw'	L'	R'
	В	R2	L	F	3Fw'	U
	Lw	R2	Fw'	3Rw2	B2	Bw2
	3Rw'	Uw'	3Fw'	3Uw'	D2	Uw'
	3Fw2	L	U	D	3Rw'	Uw2
	B2	3Fw2		_	· · · · · ·	
	R'	F	Lw'	F2	Uw'	D'
	Bw'	3Uw2	L	U'	3Rw2	Dw
	Lw'	3Uw	D	R2	D2	3Uw'
	L	Dw	Lw2	Fw	R'	В'
	R'	Uw	Bw'	R	Rw'	3Uw
	F2	D'	Fw'	В	3Rw2	L
	U'	3Rw	Rw	Fw	В	3Fw'
2.	3Rw2	L'	D'	Dw	F2	Dw2
	L'	Lw'	3Uw	B2	F	Dw'
	R'	В	Lw2	D2	F	3Rw2
	D2	Lw'	3Fw	Lw2	Bw2	B2
	Lw	3Fw'	Uw	Fw	U2	Dw'
	3Uw	Lw'	3Rw	Bw'	Fw2	3Uw'
	Dw2	L'				
-		_				
	B2	Dw	3Rw	3Uw'	Uw	3Rw'
	Dw	L.	3Rw	Fw2	3Uw	L'
	R2	В'	Rw'	Lw'	L	3Fw2
	3Uw	F2	D .	Bw2	F2	В
	3Rw	3Uw'	Dw'	Uw2	3Rw'	В
	Uw'	R	Rw2	L2	D'	F2
	Lw2	3Uw	D2	Lw'	L'	3Fw
3.	D2	F	3Uw'	Uw2	3Fw	Uw'
	Lw'	L	Fw	Dw'	R2	Lw'
	U2	Bw'	Uw	В	U'	F2
	3Fw2	L2	Uw	L'	U2	3Uw'
	F	U2	3Rw2	Dw2	В	3Uw
	Uw	R'	Lw2	F2	3Rw2	Lw'
		Fw2				

777 Scrambles for 2019-06-02

	3Uw' D2 3Uw' 3Lw' 3Lw2 D'	Lw2 B2 3Lw' 3Bw 3Uw' Dw2	3Lw Uw2 U 3Lw' 3Rw B2	L F' Dw D2 D' 3Rw'	R2 3Dw2 3Bw' 3Lw F' 3Bw'	FW L 3Dw2 U Dw' Uw2
L L2 U' Lw2 3Lw' 3Lw' 3Lw 3Fw	3DW D' Uw2 3DW Uw' 3DW' R' Dw R2	Uw Lw Lw2 Dw' 3Bw' F	B2 B' Uw2 3Dw' U 3Dw Lw' B 3Bw2	3Rw 3Uw2 3Fw2 L' F' Fw2 3Bw2	Uw' F2 Uw' F' Uw Lw'	R' FW BW L2 3BW 3FW' D
B Bw' 3Rw2 3Rw Fw2 Fw Uw U' Fw 3Dw' Dw2 Bw2 Uw Dw2 Lw2	R' 3Uw2 Uw2 Bw2 3Lw Bw' Bw' 3Fw' F' D Lw' Rw U' R' Bw2	3FW' 3RW DW 3DW UW 3UW' L' F LW' FW2 L2 L2 R UW'	LW D 3BW 3UW 3LW2 3RW' 3LW 3LW' F 3BW UW' B 3LW	L2 B' F2 UW UW LW LW2 B' FW' 3FW' BW2 FW 3RW' L	RW2 R R2 B' FW' F2 3RW 3DW' BW2 3BW DW DW2 UW2 3RW2	3Uw2 U 3Dw2 Uw Rw' 3Fw2 3Uw L U2 3Lw2 3Fw 3Uw' 3Rw F2
3Rw' 3Uw2 D2 3Fw' 3Rw 3Rw' L 3. Lw' 3Fw2 B2 Lw' B' R' Lw2 U2	F 3Rw Fw2 U' Lw 3Lw 3Fw2	L Fw2	Fw	3Uw	3Lw' 3Rw' Dw U 3Uw2 D2 Rw' Dw2 3Lw2 3Dw' B' Fw' B	F L2 Fw'

## 333bf Scrambles for 2019-06-02

1.	F D2 B L2 R F'	D2 F2 L U D2 Rw2	D2 R R B'	F' R2 B F' D'	
2.	U2 D2 D U B' Uw'	L2 R2 B2 L		F2 L' F D' FW	
3.	D2 F F' L' U2	R2 D2 R' R2 L'	D2 B2 B' U' Fw'	B2 R' U F Uw'	

### 333oh Scrambles for 2019-06-02

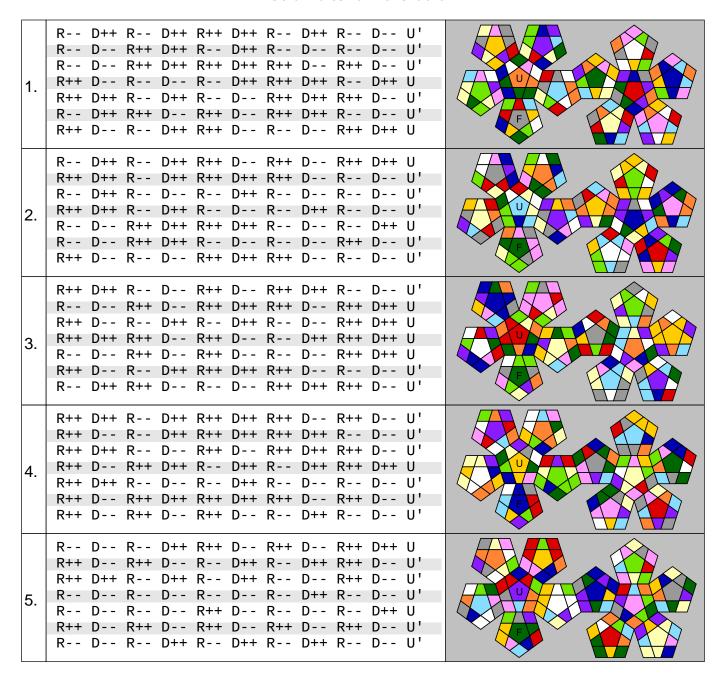
1.	F B U2		U F' L		F2 U2		D B2	
2.	F2 B2 F	U' R U	F2 D F2		R2 F'	B2 B'		
3.	B B' F2	R U2 L2	F'	U U2		R' R2		
4.		B' D' R	L'	R' U2		L' F2		
5.	L	R2	L U' R2	F'				

1.	RB'LU'LR'UB'R'B'R'u'lrb'	
2.	R L B U B' R L' R B' U' B u' l r'	
3.	LUB'RUB'R'BR'BL'ul'rb	
4.	LR'LB'R'U'B'RU'BR1'r'	
5.	U L' R B L' R' U B R' U L' 1 r' b'	

1.	B L R U' L B U' L R' B U'	
2.	LBR'UR'U'BLUBU'	
3.	URB'UL'B'L'UBL'B'	
4.	LRBLRLB'R'L'R'U	
5.	R B L' U' R L' U' L U' R' B'	

1.	(1,-3) / (2,-4) (-5,-2) / (-4,-1) (0,-3) / (0,-1) (0,-4) / (3,0)	/ (-3, -5) / (-2, -4)	/	
2.	(4,0)       / (0,3)       /         (-3,0)       / (2,-4)       /         (0,-3)       / (0,-2)       /         (-5,0)       / (-4,0)       /         (2,0)       / (-4,0)       /	(6,0) / (3,0) / (0,-3) /		
3.		/ (3,-3) / (6,0) / (5,-4)	/	
4.	(1,0) / (5,5) (-3,0) / (-3,0) (3,-2) / (-3,0) (2,0) / (-1,0) (2,0) /	/ (0,-3) / (-2,-1)	/	
5.	(0,2) / (-2,-2) (5,-3) / (0,-3) (5,-5) / (4,0) (-2,0) / (1,-4) (-1,-4)	/ (3,0) / (0,-3)	/	

### minx Scrambles for 2019-06-02



1.	UR1- UL1- D1+ y2 D1+ UL	DR0+ U0+ L5- U2- L1-	DL5+ R2+ ALL1+ R1- ALL1-	
2.	UR2+ UL5- D0+ y2 D3+ UR	DR0+ U5+ L4- U2- L6+ DR	DL4+ R4+ ALL1+ R6+ ALL2- UL	
3.	UR3+ UL2+ D3- y2 D5- UL	DR2+ U4+ L1+ U4- L1-	DL1+ R4- ALL5- R2- ALL1+	
4.	UR5- UL3+ D2+ y2 D2- DR	DR1- U2- L4- U6+ L4+	DL3- R3- ALL3- R5+ ALL2-	
5.	UR2+ UL0+ D3+ y2 D3- UR	DR2+ U6+ L1+ U1- L3- DR	DL4- R6+ ALL3+ R3- ALL4- DL	

# **Fewest Moves**

- -> You have 60 minutes to find and write a solution.
- -> Write 1 move per bar. To delete a move, clearly blacken it.
- -> Your solution must not be directly derived from any part of the scrambling algorithm.
- -> Your solution must be at most 80 moves, including rotations.
- -> Your result will be counted in OBTM.
- -> Only use notation from Article 12 of the WCA Regulations. If you are uncertain, use only the exact moves listed here:

#### **Face Moves**

Clockwise F U В D Counter-clockwise F' U' B' L' D' Double F2 R2 U2 B2 L2 D2 **Rotations** Clockwise [f] [b] [1] [d] [r] [u] Counter-clockwise [f'] [r'] [u'] [b'] [l'] [d'] Double [f2] [r2] [u2] [b2] [l2] [d2]

## Scrambles for 2019-06-02 333fm

Competitor: _	
WCA ID:	
DO NOT FILL IF YO	OU ARE THE COMPETITOR.
Graded by:	Result:

Scramble: R' U' F R2 F2 L2 U F2 D U L2 D' L2 F2 R F2 U' R' U' B' L' U' B' F' R' U' F


# **Fewest Moves**

- -> You have 60 minutes to find and write a solution.
- -> Write 1 move per bar. To delete a move, clearly blacken it.
- -> Your solution must not be directly derived from any part of the scrambling algorithm.
- -> Your solution must be at most 80 moves, including rotations.
- -> Your result will be counted in OBTM.
- -> Only use notation from Article 12 of the WCA Regulations. If you are uncertain, use only the exact moves listed here:

#### **Face Moves**

Clockwise F U В D Counter-clockwise F' U' B' L' D' Double F2 R2 U2 B2 L2 D2 **Rotations** Clockwise [f] [b] [1] [d] [r] [u] Counter-clockwise [f'] [r'] [u'] [b'] [l'] [d'] Double [f2] [r2] [u2] [b2] [l2] [d2]

## Scrambles for 2019-06-02 333fm

Competitor: _	
WCA ID:	
DO NOT FILL IF YO	OU ARE THE COMPETITOR.
Graded by:	Result:

Scramble: R' U' F R2 F2 L2 U F2 D U L2 D' L2 F2 R F2 U' R' U' B' L' U' B' F' R' U' F


## 333ft Scrambles for 2019-06-02

1.		D2				R2 U		
2.						L L2	-	
3.	R2	F'	R2 L' R2	В	L2 U	U2 R	_	
4.	В	F2 R' U	U' D L2			L2 U		
5.	R2 U' B	L		L'		B2 L'		

## 444bf Scrambles for 2019-06-02

	D	U	В'	U'	R2	
	B2	L2	F'	U'	L'	
	D	L2	R2	D2	R2	
	U'	R2	B2	U2	F2	
	U2	Rw2	F	Uw2	U	
1.	L2	F	B2	D'	Rw2	
	L2	В	U	Rw	D	
	Rw2	U	B2	D'	Uw'	
	Fw	R2	F2	Uw	R2	
	Uw2	Z	y'			
	ı	U2	L	U2	L	
	L Г2		R'		L'	
	F2 F'	D2 U'		D L'		
			B2		F	
	L	D2	B	Rw2	Uw2	
2.	B2	U	Rw2	R'	U'	
	R	Uw2	D'	U2	Fw2	
	F	U'	FW	Rw2	R'	
	U'	Fw'	Uw'	D	В	
	Rw	F	Uw2	У		
	B2	R	D2	1'	B2	
	R	D2	1'	F'	'	
	D	B'	Ĺ'	F'	U	
	R	В'	Ī	Uw2	Fw2	
3.	U'	F'	Uw2		U2	
.	В	D	Rw2	L2	B'	
	Rw'	Fw2	Rw'	D'	L	
	FW	Uw2	Rw	L2	U2	
	R'	X	1 (14		<u> </u>	

555bf Scrambles for 2019-06-02

	110	D		_		
	U2	RW	В	F	L'	
	Uw'	Rw'	L'	R'	F'	
	U'	F	U	D2	R	
	Uw'	F2	R2	Fw	Rw'	
	D'	LW	RW	F	Uw2	
	Bw2	LW	Rw'	U'	L	
1.	U	В'	L'	Dw2	LW	
	Fw'	Ū	Fw2	U	R2	
	Rw	F	R2	L2	D'	
	R'	U	D2	Bw2	Lw'	
	FW	L'	Fw'	Dw	Fw2	
	Bw	Rw'	D'	Lw2	L'	
	3Uw2					
	Lw'	Dw2	Fw'	В'	Dw'	
	U	Rw	Lw2	Bw	Uw'	
	Lw	Fw	В'	R	Fw	
	Rw'	Fw2	L	U2	Fw	
	Dw2	Bw	R'	Fw2	Dw2	
	Bw2	D	Bw2	U'	B2	
2.	L2	Lw2	Fw	R	Lw	
	U2	Fw2	F'	В	Rw2	
	Uw	В	Bw2	F	Rw'	
	R'	Lw2	Fw'	R	F	
	B2	L	F2	U	Rw'	
	U	Dw	F2	Dw2	Fw'	
	3Rw2	3Uw'				
	D'	Fw2	Bw	L'	Dw2	
	F'	Uw2	R2	L'	Dw2	
	В	Lw'	D2	В'	F'	
	U	D2	Fw'	Lw	F2	
	Uw	Dw'	Bw'	U2	Rw	
	Fw2	Rw	Lw'	D	B'	
3.	Lw'	R'	F'	Lw2	L'	
	R2	F'	D2	U'	Lw	
	R2	Bw'	Lw'	В	U	
	Rw'	U2	L2	Fw'	Dw2	
	Lw'	Bw2	D	Rw2	Uw2	
- 1		112	Bw	Rw	Uw2	
	В'	U2	DW	IVVV	OWZ	

1.	D2 R2 L'	R F F'	U2 D' L	L L D	D2 F' F	F2 D2 Rw2	L2 U Uw'	
2.	D' L2 L Fw'	R2 U' F2	D R D	L2 B L'	U' U' B'	R2 R' L	U' F R2	
3.	F2 R2 L	U2 D U	B2 R R'	U2 U2 F'	L2 B R2	D D F	F2 F' Rw2	
4.	B2 F2 B Uw2	F2 U2 D	L B U'	R2 D' L2	B2 U2 B	R' F D'	U2 R2 Rw'	
5.	R L2 D2	D2 D2 B'	R U2 F	U2 F R	L R B	U2 D' U'	B2 R Fw'	

