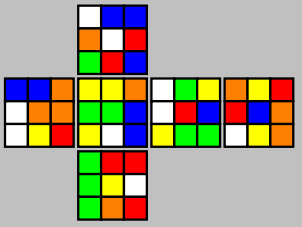
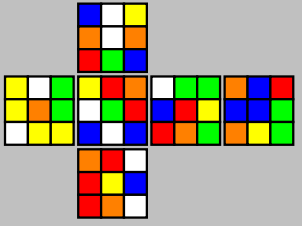
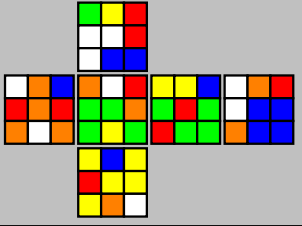
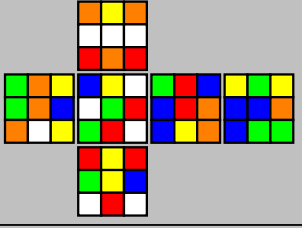
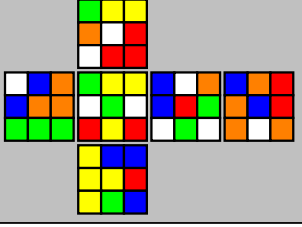
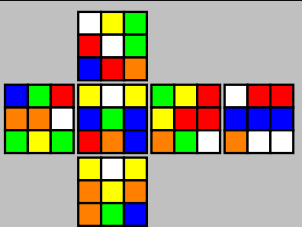
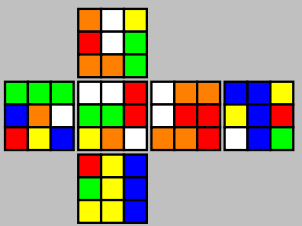
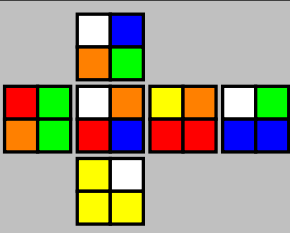
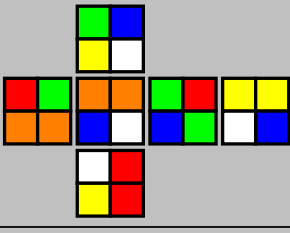
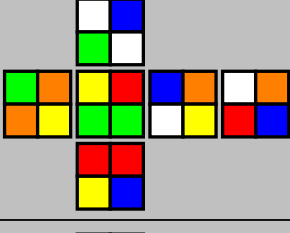
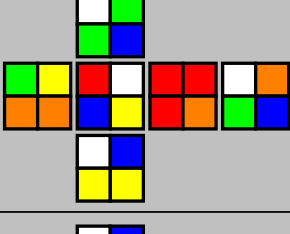
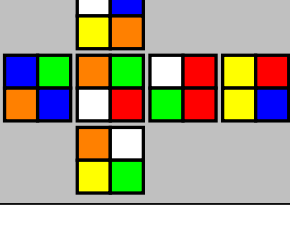
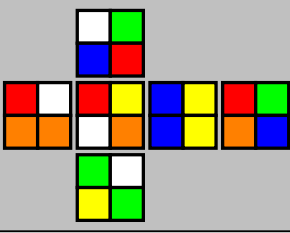
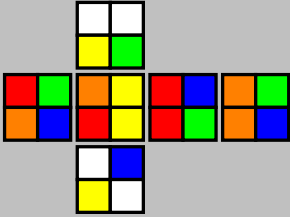
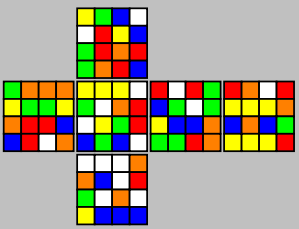
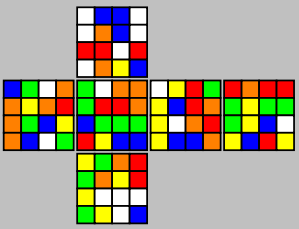
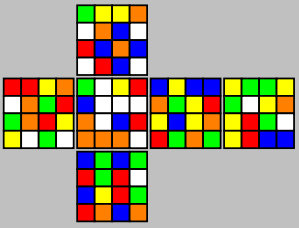
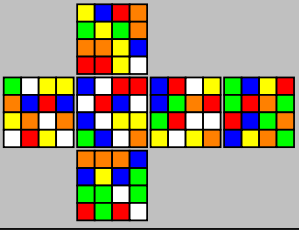
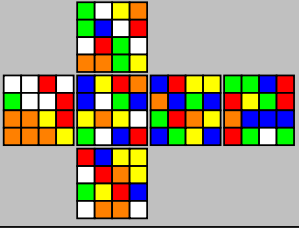
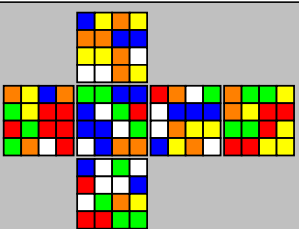


| | | |
|-----------------|---|---|
| 1. | R2 F2 R B2 L' B2 R' F2 R2 F2 D F' U2 L2 F2 L' U2 F' U B' |  |
| 2. | R' D' R2 F' R2 D L U F L2 U' F2 B2 L2 U2 F B2 R2 D2 |  |
| 3. | F2 D' L2 R2 D R2 U' B2 L2 B' R' D' B2 R2 U' R2 U2 L2 R' F' |  |
| 4. | F' R U2 L D2 R' F2 D L2 F' R F2 D2 R2 B2 L' B2 L B2 R |  |
| 5. | D L2 D2 B2 D' F2 R2 U' F' D U2 B2 D2 B' D L U' R' D |  |
| Extra scrambles | | |
| E1. | D2 R B2 D F R B2 U B R' D R2 B L2 F R2 D2 B' |  |
| E2. | D2 F2 D2 R' B2 U2 R' F' R' B' R' D2 L2 D L2 R D2 B' |  |

| | | |
|-----------------|--------------------------------|---|
| 1. | U' R F' U' R' U' R' F' R F R2 |  |
| 2. | R U' R2 U2 F U' R' U2 F U F |  |
| 3. | U R' U' F R' F' U' F U' F' R |  |
| 4. | R' F' U2 R2 U' F' R2 F U' F R2 |  |
| 5. | F' R2 U' R' U' R' U' F U' R U |  |
| Extra scrambles | | |
| E1. | U R2 U' R' U' R' F R U2 R U2 |  |
| E2. | U F' U2 R2 U' F U2 R U' R' U' |  |

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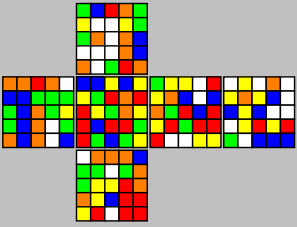
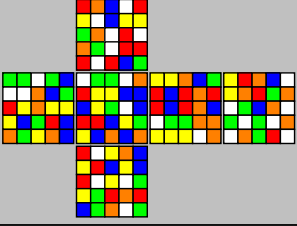
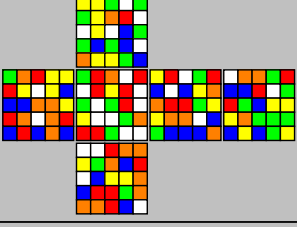
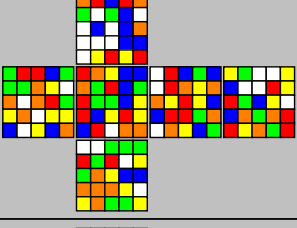
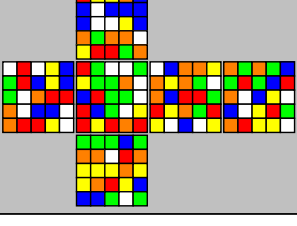
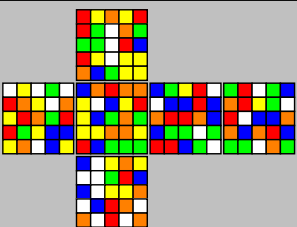
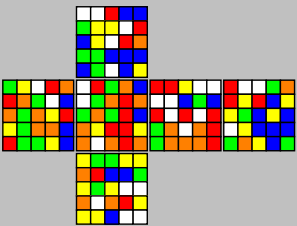
4x4x4 Cube Round 1
NU_CUBING_12-06-2015

| | | |
|-----------------|---|---|
| 1. | U2 R2 U R2 U' F2 U' D L' B L2 R B' F2 L B' L2 B' D' Fw2 L' Fw2 B2 U2 Rw2 U R U D R' F2 Fw Uw2 U' Fw2 D B2 L F2 Uw Rw Fw' R2 |  |
| 2. | D L D2 R U R' D B U' L' D B2 U2 D' R2 D B2 R2 B2 Uw2 R' U' L' Fw2 D2 R U' Fw2 Rw2 D L U2 Fw' Uw2 Fw2 L2 Rw' Fw R D2 Fw L2 Fw |  |
| 3. | D' B2 U2 R2 D' R2 U' L2 D' F2 D' L D L U' B' R U' L2 B' U Uw2 B Uw2 L F' L2 B2 Uw2 L Fw2 B L2 Uw' Fw2 L' U' L' Uw' Rw' L2 U' Fw Uw U2 Rw2 |  |
| 4. | F2 R2 U B2 U B2 F2 R2 D R2 D' F' D R2 F' L' D' F' R' F' L Fw2 Rw2 U2 F' Uw2 U Rw2 B U2 R2 Uw2 B Rw' D2 B Rw Fw2 U' Uw' Fw2 Rw U R' F' Rw' |  |
| 5. | B2 L' F2 L U2 L F2 L' B2 F D' L' B2 L2 B F2 R B D2 Rw2 Uw2 R' F2 Uw2 B' L' U2 B Uw2 D2 Fw2 Uw' Fw2 D' Rw2 F2 U2 Rw Fw' Rw2 R' Uw B R |  |
| Extra scrambles | | |
| E1. | L2 U' L2 D2 B2 L2 F2 U R2 D' F U R' F2 D F' B2 D' R' D' Fw2 U' F' Uw2 F D2 Rw2 U' F2 U R2 D2 Rw' B' D B2 Uw L' Fw Rw B U Fw' U2 |  |
| E2. | L F2 D2 B2 D2 U2 L' F2 R2 F D U F' L2 F' B' U' F2 B' L' Fw2 R F2 Rw2 F' U2 D2 L F2 Uw2 Rw2 F Uw' B' L' B' Uw' L Fw' D' Rw Fw2 U R2 B2 |  |

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5x5x5 Cube Round 1

NU_CUBING_12-06-2015

| | | |
|-----------------|--|---|
| 1. | Uw' Dw U' Lw Fw2 F2 Dw' U B D' U Fw2 F2 U Dw2 Bw2 Lw Bw2 U' R F2 Uw2 Rw' Lw Uw2 R B2 L' B' D2 F' Lw2 Uw D F2 Bw' Fw' Rw Lw D' L2 Fw2 Lw Uw B' Bw2 Lw' Uw' U Rw' D R' Fw2 D Dw' Rw Bw' Dw Uw Lw' |  |
| 2. | Bw' U Rw2 D Bw' L B' D R2 Dw Fw L F2 R' Uw' U Lw2 Bw' Rw2 F' Dw Rw' Lw Uw2 Rw Uw2 B Bw2 D Lw' Rw L' D F2 Rw' U Bw' F2 U F2 B R2 Fw' B F' R' F' R Lw' U L' U' Lw Uw' Rw' R F2 Fw Bw2 R2 |  |
| 3. | Rw' F R B2 D2 Fw2 F2 Uw' U' R2 B Dw2 Uw Lw L R2 F' Rw' F' U F' B Rw' Lw2 Uw' Fw D2 L' Bw L B' D2 F2 Uw' F2 Uw' Rw' D2 Uw' Lw' Uw2 Rw Fw B' F' Bw U Uw2 D2 L2 Lw' R D2 Uw Lw2 F2 D F' B' Rw' |  |
| 4. | Lw' D' Rw2 R' Uw2 D' Dw2 Bw' Uw2 U2 B Lw' D' Dw' R' D' Lw Fw Uw2 B' Fw' Bw Dw2 R B Rw2 R2 Uw' U2 Fw' Bw' U Bw2 Lw2 Fw' R2 Bw2 F' U R2 F2 Fw U' R' Uw2 F2 D2 Uw B Fw2 L' Fw2 Lw R' F' Dw' R L Fw Rw2 |  |
| 5. | D2 Dw B' Fw' Dw' Uw2 L Lw2 F2 Rw Dw Fw' Bw2 F' Uw Lw2 L' Fw2 D2 U F2 Dw2 U Rw Uw Bw U Uw F Bw2 B2 D Bw' Rw2 Lw2 Fw U' Dw2 Rw R' Fw L U F' Bw' Rw' R2 U' Rw D' R D2 F' D' Dw2 L R Lw Uw2 Lw |  |
| Extra scrambles | | |
| E1. | Lw' U B D' Fw' Lw2 B' Bw' D2 Uw2 U2 Rw2 R' Fw' B Bw2 Lw Dw Bw' R D U2 Bw2 Uw2 Rw' Dw' Fw2 Uw2 Bw Fw' Lw R2 Fw' Uw' Fw' D F' Rw B' L' F2 D' F' B2 Bw' Uw2 Lw' Bw' R2 D' Rw F2 R' Dw' L2 D2 F' Rw2 D' Dw |  |
| E2. | U2 Uw' Fw' F2 R2 Rw' F2 D Lw' Bw Dw Bw2 F2 L F2 Lw2 D2 B D' Uw U2 Lw Fw' D2 B' Rw2 Lw F2 R' Dw U F' L Dw' Fw2 U Uw R' L Uw' Fw2 B2 D' Rw' F' Fw Uw' R' L' Fw' F' U F' Uw2 B' Bw2 Dw Uw' R' Rw' |  |

2015/08/07

6x6x6 Cube Round 1

NU_CUBING_12-06-2015

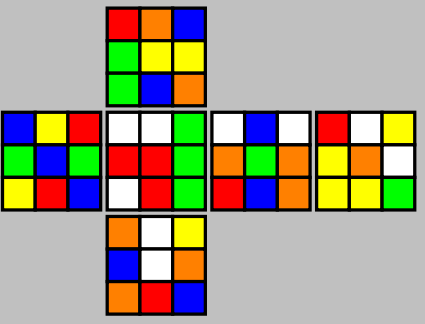
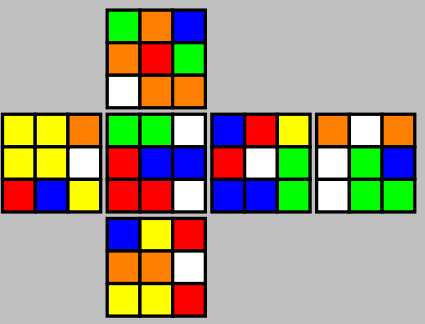
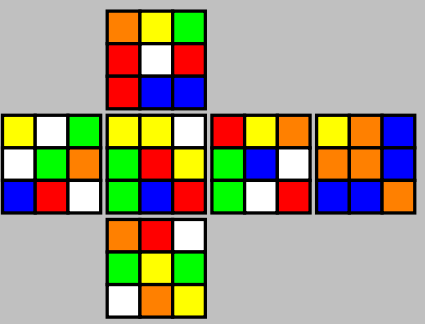
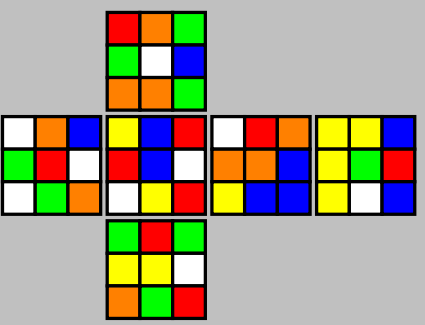
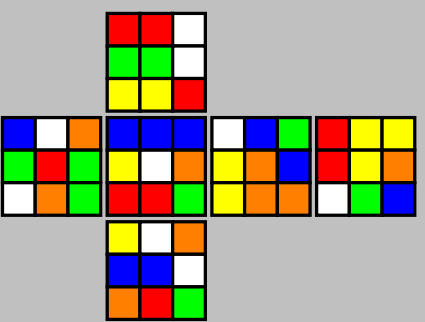
| | | | | | | | | | |
|-----------------|------|------|------|------|------|------|------|------|------|
| 1. | F | Lw2 | Rw' | D' | 3Uw2 | U2 | Dw' | B | L2 |
| | Rw | U | D | 3Fw | Dw' | Fw | 3Uw2 | D | Fw' |
| | U2 | R2 | Lw2 | B' | R2 | Lw2 | Bw' | Lw | R |
| | Bw2 | R2 | 3Rw' | Dw' | Rw2 | 3Rw' | Fw' | 3Uw' | D2 |
| | B2 | Bw' | U' | Lw' | Uw2 | L2 | Lw' | 3Rw' | Bw2 |
| | B' | Dw2 | Lw' | 3Fw' | 3Rw2 | 3Uw2 | Rw | U | Dw |
| | Uw' | Bw2 | B' | Dw2 | F | U | D2 | L2 | 3Fw' |
| | F2 | B2 | R2 | B | Bw2 | Dw' | Lw | U | 3Uw2 |
| | Dw' | D | Lw2 | 3Rw' | L' | D' | U' | Lw' | |
| 2. | Bw2 | 3Fw' | R2 | Uw | B2 | Dw' | 3Fw2 | Bw2 | B' |
| | Rw' | Dw' | Bw2 | Fw | Lw2 | Rw2 | Fw2 | D2 | L2 |
| | Bw2 | D' | Fw2 | B2 | Uw | L' | F2 | 3Fw | B |
| | Lw' | Fw' | Dw' | B2 | Lw' | Fw2 | F | 3Rw' | Bw |
| | F2 | 3Uw | Uw' | R2 | Dw' | F2 | Uw2 | 3Uw2 | L' |
| | 3Fw' | 3Rw2 | Fw2 | 3Fw | D | Uw' | 3Rw2 | U2 | Dw |
| | R' | 3Fw | 3Rw' | 3Uw2 | U2 | L' | U' | R | L2 |
| | F' | 3Fw' | Lw' | Fw2 | Bw | L2 | 3Uw' | R' | F' |
| | Rw' | L | 3Fw | Bw | L' | 3Uw | F' | B | |
| 3. | Rw' | Uw | 3Uw' | U2 | Dw | Rw' | B | 3Fw' | 3Uw2 |
| | 3Rw' | Lw | Rw2 | 3Uw | B' | 3Fw2 | 3Rw' | U2 | Lw' |
| | Dw | Lw | B2 | F2 | Uw2 | Rw | 3Uw2 | B2 | F |
| | 3Rw' | 3Uw | Rw' | D2 | Rw' | Fw2 | U | 3Uw2 | 3Fw' |
| | Rw | F2 | Fw | Bw' | L' | Lw2 | Uw' | Lw' | Uw2 |
| | Rw2 | 3Uw' | Rw2 | Bw' | U | Dw' | Lw' | 3Uw | F |
| | 3Fw | Rw' | Lw | R2 | U | Rw' | U' | Lw' | Fw |
| | L2 | F' | Rw | Lw | 3Uw' | R | Lw | U | Dw' |
| | F' | L' | F' | Fw' | L2 | R' | 3Rw' | B | |
| Extra scrambles | | | | | | | | | |
| E1. | Bw | Fw | L' | 3Fw | Fw' | R2 | Dw2 | D' | 3Fw' |
| | Lw2 | F | Bw | 3Fw2 | D | 3Uw | Lw' | 3Rw' | Dw |
| | Fw' | Lw' | Dw' | B' | Dw' | Rw2 | R' | Bw' | Fw |
| | L | U' | Rw | Fw | R2 | F' | L2 | 3Fw' | L' |
| | R' | Lw' | Bw | 3Rw' | R2 | Uw2 | Lw2 | D | 3Rw' |
| | 3Fw2 | F | 3Uw2 | Uw | 3Rw' | Fw' | U' | Uw | 3Rw' |
| | Fw' | F' | Lw' | B' | U | R | Bw' | Dw | R2 |
| | F | 3Uw2 | B2 | Fw' | Dw | Uw2 | Rw2 | 3Fw' | L2 |
| | 3Fw | D' | Rw' | 3Fw2 | Fw' | Bw2 | B2 | U | |
| E2. | 3Uw | F | B' | U' | Uw' | Lw | Dw' | F2 | 3Rw |
| | Rw | Uw | B' | Dw | Fw' | Dw' | Rw2 | R2 | Uw2 |
| | U' | 3Rw' | B | Rw | D' | Dw | Bw | Lw' | D |
| | Lw | L' | Uw' | B' | 3Rw' | Bw | Rw | R | 3Rw |
| | Fw2 | U | Dw2 | Lw' | L' | 3Fw2 | Dw2 | 3Fw | Dw2 |
| | D' | F2 | Dw | 3Rw2 | Lw' | F | 3Uw' | 3Fw' | Fw |
| | F' | Dw2 | U | Lw | U | R' | F' | 3Uw | U' |
| | L' | U2 | 3Uw | R' | Lw | Bw | Fw' | R | Uw2 |
| | L' | Dw2 | B | Dw2 | Bw | Rw' | Bw | Lw | |

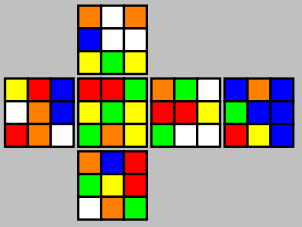
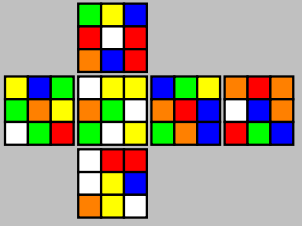
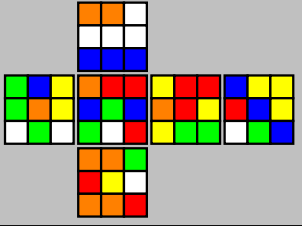
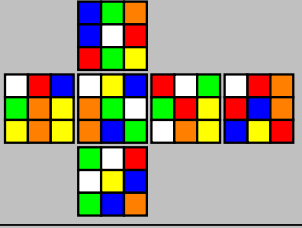
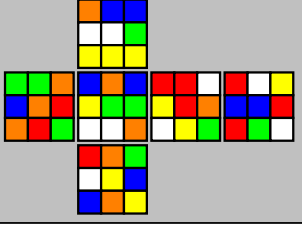
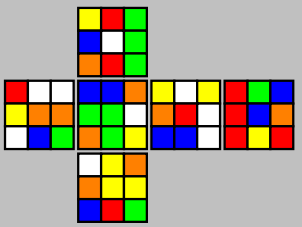
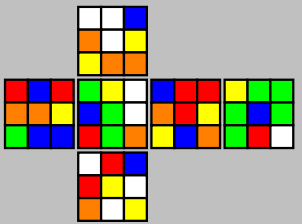
2015/08/07

7x7x7 Cube Round 1

NU_CUBING_12-06-2015

| | | | | | | | | | | |
|-----------------|------|------|------|------|------|------|------|------|------|------|
| 1. | Uw | Fw2 | 3Rw' | 3Bw' | L' | B2 | F2 | 3Rw | 3Lw2 | Fw' |
| | F | Dw' | 3Rw' | L | Uw2 | Dw | 3Bw' | Uw | 3Lw2 | Rw2 |
| | L | U' | 3Uw' | L | 3Dw2 | 3Bw2 | F2 | U' | L2 | Uw2 |
| | Lw | Uw | Lw | Uw2 | Lw | 3Dw | 3Lw' | B' | 3Lw2 | D |
| | L2 | 3Uw' | U2 | F' | D2 | R' | F | 3Dw | 3Rw | B2 |
| | F | Uw | Dw' | 3Fw' | 3Dw' | Rw | D' | 3Dw2 | 3Lw | Fw' |
| | Bw2 | 3Dw' | D2 | Dw2 | 3Bw' | Uw | D2 | F' | 3Fw' | R |
| | U' | 3Lw | Lw2 | Rw | 3Dw2 | L' | Uw | 3Bw2 | B2 | Dw' |
| | 3Lw | U' | Rw | Uw | U | Bw' | Rw | Uw' | Dw | 3Dw' |
| 3Rw2 | U | 3Uw | B | 3Rw' | Rw | U' | 3Uw | B | 3Dw | |
| 2. | 3Lw2 | F | Lw' | Bw2 | D' | Dw | 3Uw2 | U' | 3Lw2 | F |
| | U | 3Dw2 | 3Rw | Dw | D2 | Rw | 3Bw2 | Dw | 3Dw2 | D |
| | L2 | U | Dw2 | B | 3Bw | 3Uw' | D' | 3Fw2 | Dw2 | Bw' |
| | Lw | Uw | L | U' | 3Bw2 | Uw' | 3Dw | 3Bw | L' | Uw' |
| | 3Rw | 3Bw2 | Bw2 | Uw2 | D2 | F' | L' | Uw | 3Bw' | L' |
| | D | 3Lw | R' | 3Dw2 | Dw | Fw2 | 3Lw | 3Bw2 | Uw | Lw |
| | 3Uw | 3Bw | D2 | 3Uw2 | R | B | 3Lw | 3Fw2 | D2 | Dw |
| | Rw | Lw' | 3Dw2 | 3Rw' | F | 3Fw | 3Dw | B' | Lw' | 3Uw' |
| | Bw2 | Uw2 | Bw2 | Lw2 | L' | Uw | 3Dw' | 3Fw2 | Dw2 | Uw' |
| 3Rw | Lw' | U2 | Bw | 3Dw2 | 3Fw' | Fw2 | Bw2 | Dw' | 3Dw2 | |
| 3. | Dw | Rw | F | 3Rw | Rw' | Lw | Uw' | R2 | 3Bw' | 3Uw |
| | 3Bw' | 3Fw2 | Rw2 | B | U2 | D' | Rw2 | 3Dw | B' | 3Fw' |
| | 3Lw' | 3Bw | 3Uw' | U' | B' | 3Lw | B | R' | Lw | Bw2 |
| | 3Bw' | R' | B' | 3Uw | 3Rw2 | Lw2 | Rw2 | U' | 3Lw | 3Fw |
| | 3Uw' | Bw | Rw2 | F2 | R2 | L | Fw2 | Lw | U2 | L |
| | R | 3Fw2 | L | 3Dw' | F' | 3Bw | Dw | 3Dw | Fw | Lw2 |
| | 3Lw2 | Uw | Dw2 | B | 3Uw | 3Bw | 3Uw2 | D2 | Lw' | Dw2 |
| | 3Dw2 | 3Lw | 3Rw | Dw | 3Uw2 | B' | Dw' | 3Bw | U' | 3Lw' |
| | Bw | Lw | U' | 3Lw' | Rw | Uw | F | 3Fw2 | 3Uw2 | Bw2 |
| 3Dw' | D' | Uw2 | U' | 3Bw2 | Fw' | 3Dw2 | R | 3Rw2 | Bw | |
| Extra scrambles | | | | | | | | | | |
| E1. | 3Fw2 | D | Dw2 | R | L2 | 3Uw2 | U' | 3Bw | R | Uw2 |
| | Rw | 3Fw' | 3Dw' | 3Fw2 | F' | 3Rw | Dw' | F' | 3Uw' | Bw2 |
| | L' | 3Rw2 | 3Dw | B | 3Dw' | Dw | L' | Dw' | Lw2 | Rw |
| | R | L | 3Lw' | D | Uw2 | B | Fw' | 3Fw2 | 3Bw2 | 3Uw2 |
| | Rw' | 3Lw2 | 3Bw | D | R' | 3Rw' | U' | 3Rw | Rw2 | F2 |
| | 3Rw' | 3Uw2 | 3Lw2 | Fw' | Lw' | Uw' | 3Fw | L' | Dw2 | 3Dw |
| | Lw2 | F' | 3Uw | Lw2 | 3Bw' | 3Lw2 | F' | Lw' | Dw2 | 3Uw2 |
| | B2 | 3Rw' | 3Dw | 3Fw2 | Dw2 | F2 | B2 | Uw2 | U2 | Fw |
| | 3Rw2 | Fw | Bw | 3Lw2 | R2 | Bw' | Fw' | Lw' | Bw2 | R |
| Rw' | F' | Bw | 3Fw | B' | D2 | F' | 3Bw' | 3Lw | F' | |
| E2. | Lw2 | 3Rw' | Rw2 | 3Bw' | Fw2 | D | 3Dw2 | Dw | 3Bw | 3Uw |
| | Bw | Lw | 3Bw2 | B | U2 | Fw2 | Lw2 | B' | 3Rw2 | L' |
| | U2 | L | 3Rw' | 3Uw' | Lw | D' | Dw2 | L2 | Uw' | 3Dw2 |
| | D2 | Bw' | R | L | Lw2 | F2 | 3Dw' | Rw | 3Dw | L2 |
| | Bw' | 3Uw | Fw | Rw | Dw' | L2 | Bw | 3Dw' | U' | Rw |
| | 3Uw2 | D' | 3Fw | Rw | F' | 3Bw | 3Uw | 3Dw2 | 3Fw' | Bw2 |
| | F2 | L' | 3Fw | Rw | 3Uw' | Dw | Uw' | Lw2 | F' | 3Rw2 |
| | U2 | 3Rw | 3Dw' | 3Lw2 | 3Fw | Rw | Bw2 | 3Rw | Dw | Fw' |
| | 3Bw2 | Lw | D' | Rw' | F' | D' | B2 | Fw | D2 | F' |
| Uw | Fw2 | U | Bw' | Dw2 | 3Bw2 | Rw | 3Fw2 | 3Dw2 | R | |

| | | |
|-----------------|---|---|
| 1. | L2 U' F2 L2 D F2 L2 D' R B D2 F2 U F' R' U2 B' F2 Rw2 Uw |  |
| 2. | F2 U2 B2 F D2 F U2 F' L2 D2 U L U2 F2 L R' U2 F R2 Fw' Uw2 |  |
| 3. | R2 B2 R' B2 U2 B2 R2 B' R U L' U' R2 B D2 L' B F Uw |  |
| Extra scrambles | | |
| E1. | F2 L2 D2 B2 L2 U R2 D' L D' R B L B F2 U F' U2 R2 F2 Uw2 |  |
| E2. | B2 F2 D L2 F2 D2 B2 U2 F2 R' F D2 F2 D' F' L' R' B R U' Rw Uw2 |  |

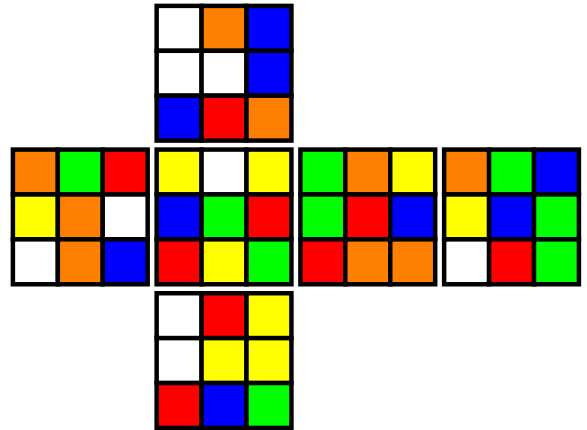
| | | |
|-----------------|--|---|
| 1. | F L' F R' D F' U2 F U2 L' U' F2 D' B2 D2 F2 B2 R2 U B2 |  |
| 2. | L D2 L D2 R' F2 D2 B2 L B2 U F R2 U B2 L' F' R' U' L2 |  |
| 3. | F2 R' F2 U2 B2 L2 R' D2 B2 L' D2 F U F R' D' B' F2 L2 F |  |
| 4. | L D R' U L' D F2 B' D' F' B' U2 F2 D' B2 U2 L2 U F2 |  |
| 5. | R' D L U B' D2 R' L2 F U R2 L2 U2 R2 F' L2 B2 R2 U2 B |  |
| Extra scrambles | | |
| E1. | R2 F D2 R2 U2 L2 F' D2 R2 B2 L F U' R2 B' F L2 B2 R' |  |
| E2. | B2 R2 U' R2 B2 D R2 D L2 D U B U F R' U R' B' D' |  |

NU_CUBING_12-06-2015
3x3x3: Fewest Moves Round 1
Scramble 1 of 3

- Competitor: _____

WCA ID: _ _ _ _ _

Graded by: _____ Result: _____



Scramble: D B2 U B2 L2 B2 R2 D B2 L' F' D' B R2 U' L' B2 D B' U'

[illegible]

Fewest Moves

- Notate your solution by writing one move per bar.
 - To delete moves, clearly erase/blacken them.
 - Face moves F, B, R, L, U, and D are clockwise.
 - Rotations x, y, and z follow R, U, and F.
 - ' inverts a move; 2 doubles a move. (e.g.: U', U2)
 - w makes a face move into two layers. (e.g.: Uw)
 - A [lowercase] move is a cube rotation. (e.g.: [u])
-
- You have 1 hour to find a solution.
 - Your solution length will be counted in OBTM.
 - Your solution must be at most 80 moves, including rotations.
 - Your solution must not be directly derived from any part of the scrambling algorithm.

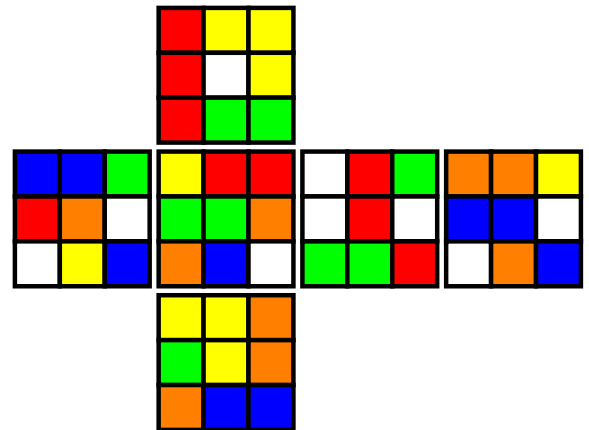
NU_CUBING_12-06-2015
3x3x3: Fewest Moves Round 1
Scramble 2 of 3

Competitor: _____

WCA ID: _ _ _ _ _

DO NOT FILL IF YOU ARE THE COMPETITOR

Graded by: _____ Result: _____



Scramble: B2 D R' F D2 B' U' R2 F2 U F' D' F2 B2 R2 F2 U2 D L2

A blank sheet of white paper featuring a light gray grid pattern. The grid consists of evenly spaced horizontal and vertical lines, creating a series of small squares across the entire page. There are no margins, text, or other markings on the paper.

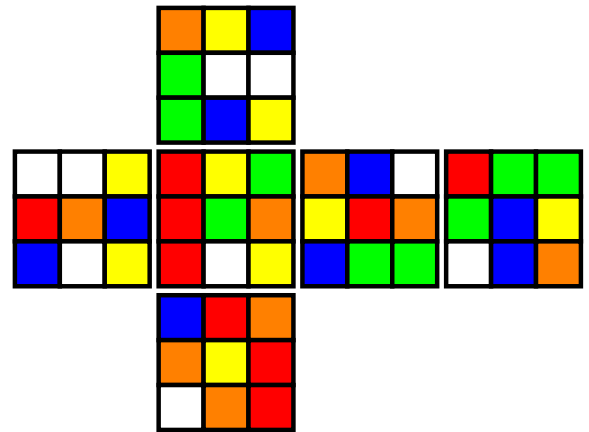
NU_CUBING_12-06-2015
3x3x3: Fewest Moves Round 1
Scramble 3 of 3

Competitor: _____

WCA ID: _ _ _ _ _

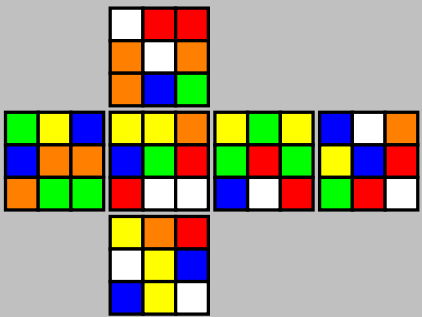
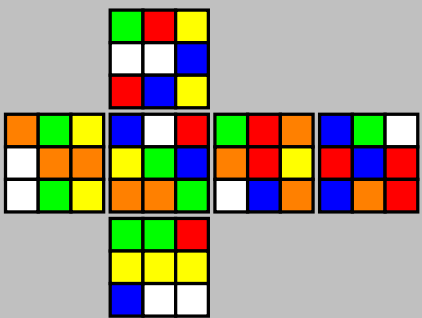
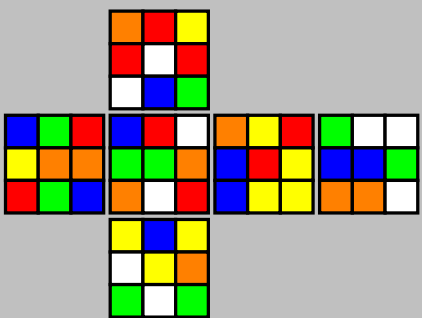
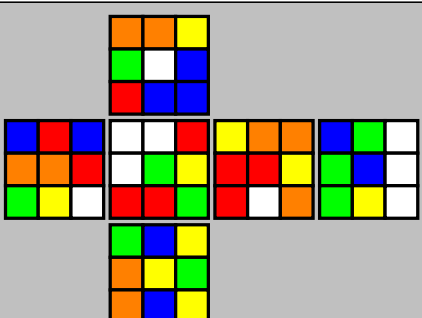
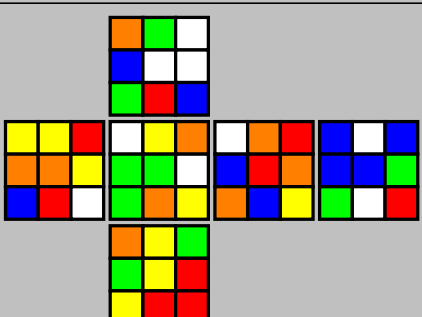
DO NOT FILL IF YOU ARE THE COMPETITOR

Graded by: _____ Result: _____



Scramble: B F2 L2 R2 D2 B U2 F' L2 B L D B' L2 B2 U L R2 B' F

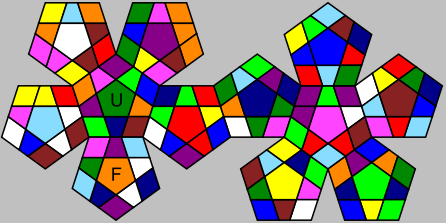
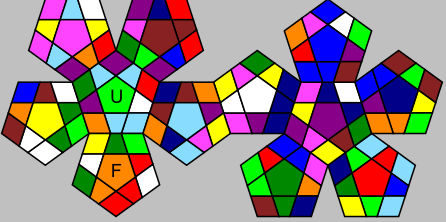
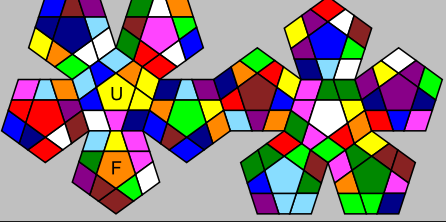
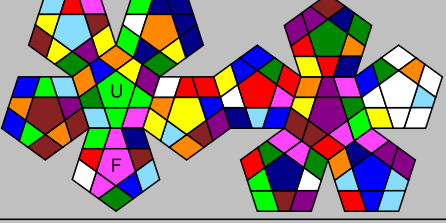
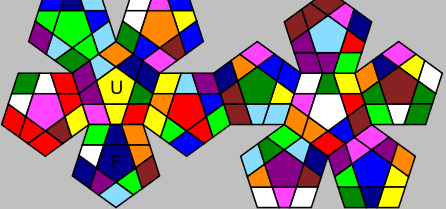
This image shows a full page of blank graph paper. The grid consists of thin, light gray horizontal and vertical lines that intersect to form small squares across the entire surface. There are no margins, text, or other markings on the paper.

| | | |
|-----------------|---|---|
| 1. | B2 L2 R2 D R2 D U2 F2 U' B2 L' U' L2 B' R' D' L' R2 F L2 |  |
| 2. | U L' U2 D' L' D' R2 D' B' R2 F2 U2 R F2 R2 F2 B2 D2 |  |
| 3. | R2 D' L2 F2 U L2 F2 D2 U L2 U' F R' F2 R' F' R B' U B2 R' |  |
| Extra scrambles | | |
| E1. | L F L2 B R' F2 L F' U' L' F B' L2 D2 B2 U2 F' D2 B L2 |  |
| E2. | F L2 U2 F' D2 F' L2 B2 R2 B2 F' L B F' L' R2 U L R2 F2 |  |

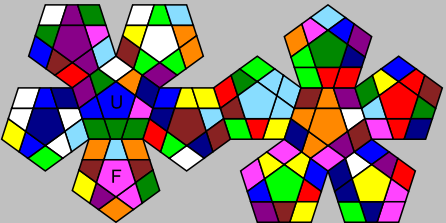
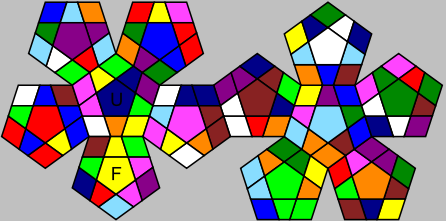
2015/08/07

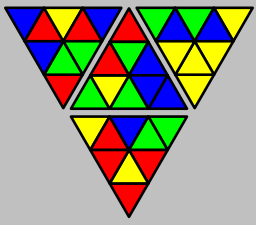
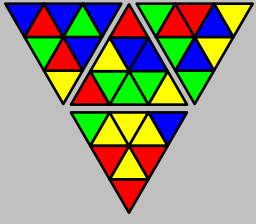
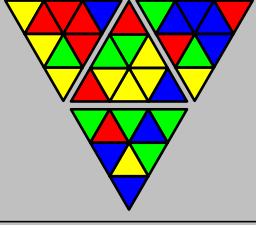
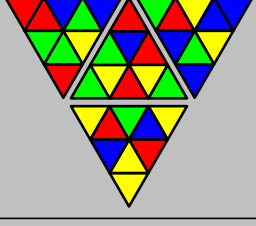
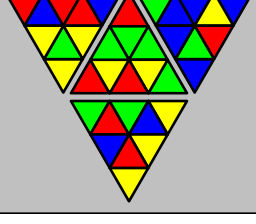
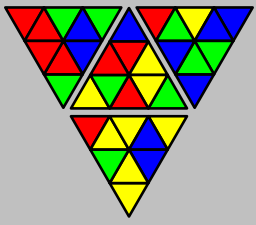
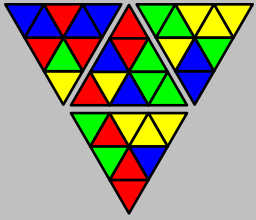
Megaminx Round 1

NU_CUBING_12-06-2015

| | | |
|----|---|---|
| 1. | R-- D-- R++ D++ R-- D-- R-- D-- R-- D-- U' R-- D-- R-- D-- R++ D-- R++ D++ R-- D++ U R++ D-- R++ D-- R-- D-- R++ D-- R-- D++ U R++ D++ R++ D-- R++ D-- R++ D++ R-- D-- U' R++ D++ R-- D++ R-- D-- R++ D++ R-- D++ U R++ D++ R-- D-- R++ D-- R++ D-- R-- D-- U' R-- D-- R-- D++ R++ D-- R-- D-- R-- D++ U |  |
| 2. | R++ D-- R-- D-- R++ D-- R-- D++ R-- D-- U' R++ D++ R-- D-- R-- D-- R-- D++ R++ D-- U' R-- D++ R-- D-- R++ D++ R-- D-- R++ D-- U' R++ D-- R++ D-- R-- D-- R++ D++ R-- D++ U R-- D-- R-- D++ R-- D-- R++ D++ R-- D++ U R++ D++ R++ D-- R-- D++ R-- D++ R-- D-- U' R-- D++ R++ D-- R-- D-- R-- D++ R++ D++ U |  |
| 3. | R-- D-- R-- D-- R-- D-- R++ D++ R++ D-- U' R-- D-- R++ D++ R-- D-- R++ D++ R-- D++ U R-- D++ R++ D++ R++ D-- R++ D-- R-- D-- U' R++ D++ R++ D-- R++ D-- R-- D-- R-- D++ U R++ D-- R-- D-- R++ D++ R-- D-- R-- D-- U' R++ D++ R-- D++ R++ D++ R++ D++ R-- D++ U R++ D-- R++ D-- R-- D++ R-- D++ R-- D-- U' |  |
| 4. | R-- D++ R-- D++ R-- D-- R++ D++ R++ D++ U R-- D-- R-- D-- R-- D-- R-- D++ R++ D++ U R-- D++ R++ D-- R++ D++ R-- D-- R++ D++ U R-- D-- R++ D++ R++ D++ R-- D-- R-- D-- U' R-- D-- R++ D-- R-- D++ R++ D-- R-- D++ U R-- D++ R-- D++ R++ D++ R++ D++ R-- D-- U' R-- D++ R++ D-- R-- D-- R-- D-- R-- D-- U' |  |
| 5. | R++ D++ R++ D-- R-- D++ R++ D++ R-- D-- U' R-- D-- R++ D++ R-- D-- R-- D-- R++ D++ U R++ D++ R++ D-- R++ D++ R-- D-- R-- D++ U R++ D-- R++ D-- R++ D-- R++ D++ R++ D++ U R++ D-- R++ D++ R++ D++ R-- D++ R-- D++ U R-- D++ R-- D-- R-- D-- R-- D++ R++ D++ U R++ D-- R++ D++ R++ D-- R-- D-- R++ D-- U' |  |



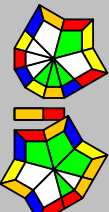
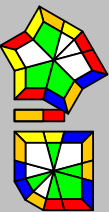
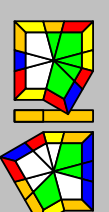
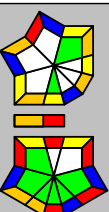
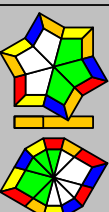
Extra scrambles

| | | |
|-----|--|---|
| E1. | R-- D++ R++ D-- R-- D-- R-- D-- R-- D-- U' R++ D++ R-- D++ R++ D-- R++ D-- R-- D++ U R-- D++ R++ D++ R++ D++ R++ D++ R++ D++ U R++ D++ R++ D-- R++ D++ R-- D-- R-- D-- U' R-- D++ R++ D-- R-- D++ R++ D-- R++ D-- U' R++ D-- R++ D-- R++ D++ R-- D++ R-- D++ U R++ D-- R++ D-- R++ D-- R-- D++ R-- D++ U |  |
| E2. | R-- D++ R++ D++ R-- D++ R-- D-- R++ D-- U' R-- D++ R-- D-- R-- D++ R-- D-- R-- D-- U' R++ D++ R-- D-- R++ D++ R++ D++ R-- D++ U R++ D-- R++ D-- R++ D++ R++ D-- R++ D++ U R-- D++ R-- D-- R++ D-- R-- D++ R++ D-- U' R++ D-- R-- D-- R-- D++ R++ D-- R++ D++ U R++ D++ R-- D++ R++ D++ R++ D-- R++ D++ U |  |

| | | |
|-----------------|---|---|
| 1. | U L R' B' L' R' U' B' R L' B' u' l b |  |
| 2. | B L' R L U L' B' R L' R L' u l r b |  |
| 3. | L B L R U' B R' U R' B R' u' l' r b' |  |
| 4. | L R L' U' B L R' B' R L U' u l r' |  |
| 5. | U' L' B' L R U' R L' U' B' R' u' l' r' b' |  |
| Extra scrambles | | |
| E1. | B' L' B L B L R' U' B' R' L' u' l' r' |  |
| E2. | B L R L' B' U R' B L U L l' |  |

2015/08/07

Square-1 Round 1
NU_CUBING_12-06-2015

| | | |
|-----------------|--|---|
| 1. | $(0, 5) / (0, 3) / (-5, 4) / (5, -4) /$ $(6, 0) / (-2, 0) / (0, -3) / (0, -3) /$ $(-3, -5) / (0, -2) / (-5, 0) / (0, -4) /$ $(-2, 0) / (0, -2)$ |  |
| 2. | $(0, 5) / (0, 3) / (3, 0) / (-3, -3) /$ $(-3, 0) / (3, -2) / (6, -3) / (2, -5) /$ $(0, -4) / (-3, -2) / (-4, -2) / (6, 0)$ |  |
| 3. | $(0, 2) / (3, 0) / (0, 3) / (0, -3) /$ $(1, -2) / (3, 0) / (3, 0) / (-4, 0) /$ $(-3, -3) / (-3, 0) / (1, -5) / (-2, 0) /$ $(-4, 0) / (0, -2)$ |  |
| 4. | $(0, -4) / (6, -3) / (-3, 0) / (3, 0) /$ $(-2, -5) / (3, 0) / (0, -4) / (3, 0) /$ $(0, -3) / (4, -4) / (6, -2) / (2, -3)$ |  |
| 5. | $(4, 6) / (-1, -4) / (-3, 0) / (4, -2) /$ $(0, -1) / (0, -3) / (-1, -2) / (0, -4) /$ $(6, 0) / (0, -2) / (-3, 0) / (-3, -4) /$ $(2, 0)$ |  |
| Extra scrambles | | |
| E1. | $(1, 3) / (2, -1) / (0, -3) / (-5, -5) /$ $(-3, -3) / (5, 0) / (-3, -3) / (-2, -1) /$ $(-4, -2) / (-4, -3) / (0, -4) /$ |  |
| E2. | $(-2, 0) / (3, 0) / (-3, 0) / (2, -1) /$ $(-5, -2) / (5, -4) / (1, 0) / (3, 0) /$ $(-3, -3) / (-3, 0) / (1, 0) / (-2, -2) /$ |  |

2015/08/07

Rubik's Clock Round 1
 NU_CUBING_12-06-2015

| | | |
|-----------------|--|--|
| 1. | UR6+ DR2- DL4+ UL1+ U1+ R4+ D5- L4- ALL1- y2 U0+ R6+ D3- L5+ ALL3- UR DL | |
| 2. | UR4+ DR1- DL3+ UL4- U4- R4- D6+ L4- ALL4- y2 U4- R3+ D4- L6+ ALL1+ UR | |
| 3. | UR4- DR1+ DL2+ UL1- U1+ R2- D0+ L2- ALL4- y2 U3- R6+ D3+ L2+ ALL1+ UR DR UL | |
| 4. | UR6+ DR2+ DL0+ UL3- U5- R5+ D0+ L2- ALL4- y2 U0+ R5- D5+ L5- ALL2+ DL | |
| 5. | UR0+ DR6+ DL2+ UL3- U2- R6+ D6+ L6+ ALL4- y2 U2+ R4- D4- L4- ALL4+ | |
| Extra scrambles | | |
| E1. | UR5+ DR4+ DL5- UL5+ U3- R0+ D5+ L5- ALL5- y2 U3+ R5- D1- L3+ ALL1+ DR DL UL | |
| E2. | UR1+ DR4- DL3+ UL1- U3+ R6+ D4+ L6+ ALL0+ y2 U1- R5- D6+ L2+ ALL3- DL UL | |

2015/08/07

4x4x4 Cube: Blindfolded Round 1

NU_CUBING_12-06-2015

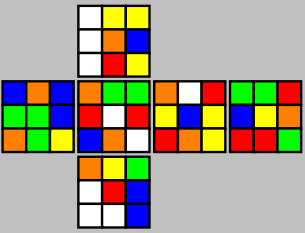
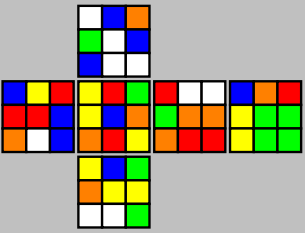
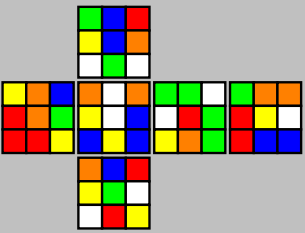
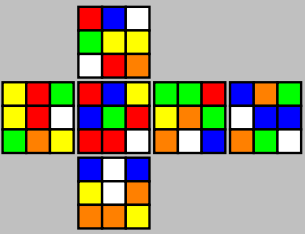
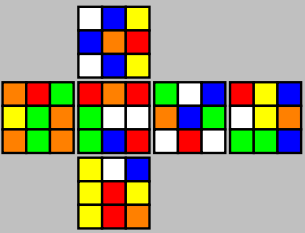
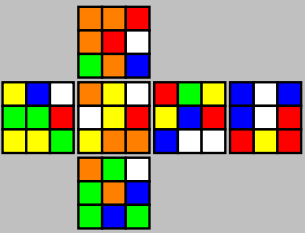
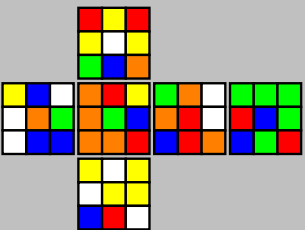
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|-----------------|-----|-----|-----|-----|-----|-----|-----|-----|
| 1. | R' | D | B2 | F | U' | R' | B' | D |
| | U | L | F | U2 | R2 | B2 | D' | L2 |
| | B2 | U' | L2 | B2 | Uw2 | R | Uw2 | Rw2 |
| | U' | L' | R' | B2 | Uw2 | F2 | U' | Fw |
| | D | B | F' | U | F2 | Uw | Rw' | Uw |
| | B | U2 | Rw | F2 | z | y2 | | |
| 2. | R' | F2 | D2 | B | D | R' | B' | U' |
| | B | R | L2 | F | L2 | F | B2 | U2 |
| | R2 | U2 | F' | L2 | Fw2 | Rw2 | D | Fw2 |
| | F | Uw2 | L2 | D | F | U | D2 | R2 |
| | Rw | B2 | L2 | U | F | Uw | R | L |
| | Uw' | Fw | U2 | D' | F | z | y2 | |
| 3. | F' | U2 | D' | R | B | U2 | F | R2 |
| | U' | F' | L2 | D2 | F2 | R2 | U2 | L2 |
| | D2 | F | R2 | F | Fw2 | U | Rw2 | D' |
| | Fw2 | U2 | L | Fw2 | U' | Fw2 | R' | D' |
| | Fw | L' | F | D' | Fw2 | B' | D' | Uw |
| | L' | Fw2 | F' | Uw | B2 | R' | x | y' |
| Extra scrambles | | | | | | | | |
| E1. | L2 | U' | R2 | D | L2 | U | L2 | B2 |
| | D' | U2 | R | B | L | F' | U' | B2 |
| | U2 | R' | F2 | U' | Uw2 | Fw2 | U' | Rw2 |
| | L' | B2 | U | R2 | D | F2 | U | Fw2 |
| | D' | Fw' | Rw2 | F2 | U' | R' | Rw' | Uw |
| | D2 | Fw' | Uw' | U2 | L | x | y | |
| E2. | B | R2 | B | L2 | F | D2 | R2 | B |
| | D2 | F | U2 | D' | R | F | U | F |
| | R2 | D2 | L | B | R' | Uw2 | Fw2 | Uw2 |
| | F | D2 | L | Uw2 | L' | B | R2 | F' |
| | B' | Uw' | F' | D' | F | Rw2 | Uw' | Fw |
| | Rw2 | R' | F | L' | Fw | z' | | |

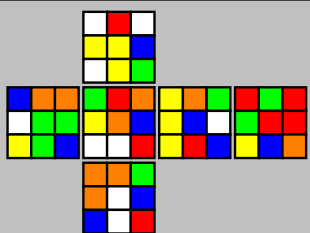
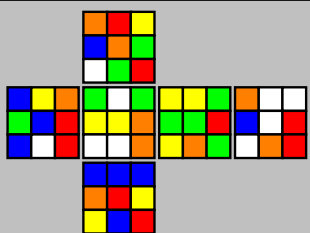
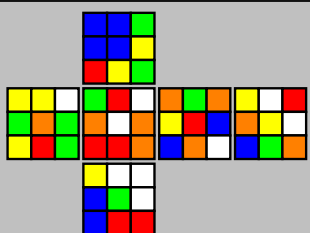
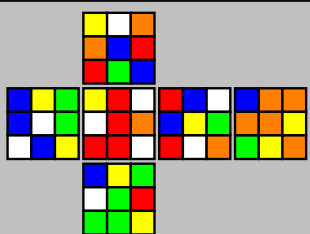
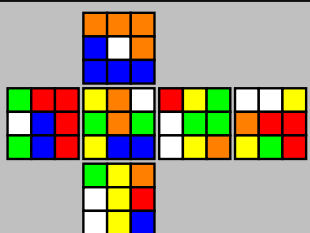
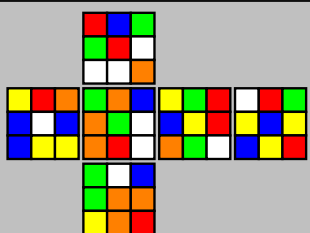
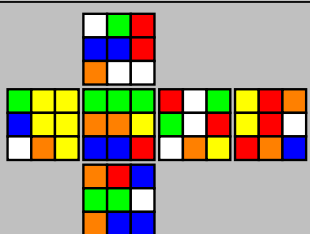
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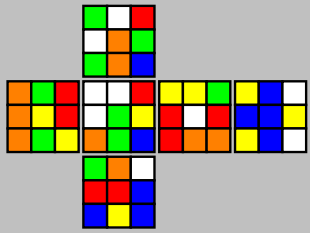
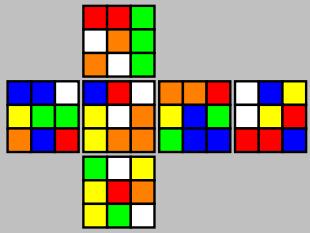
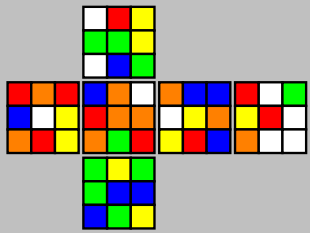
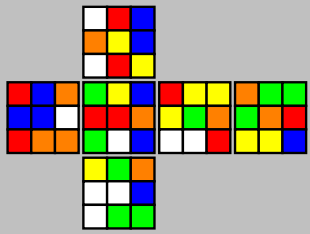
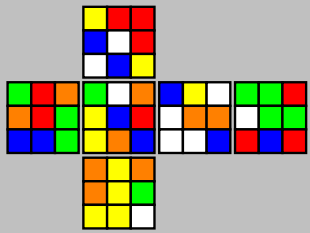
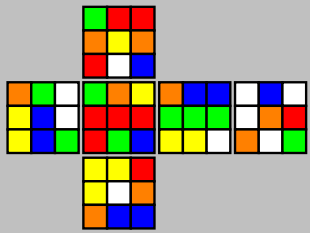
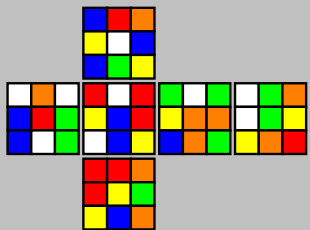
5x5x5 Cube: Blindfolded Round 1

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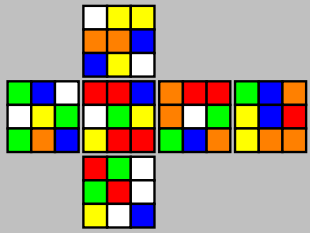
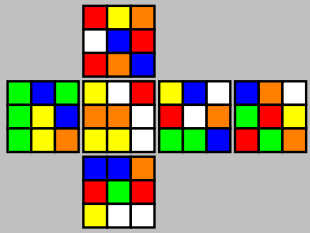
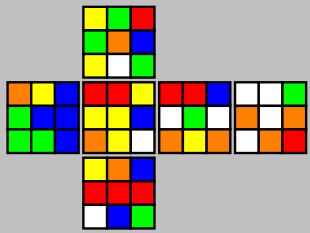
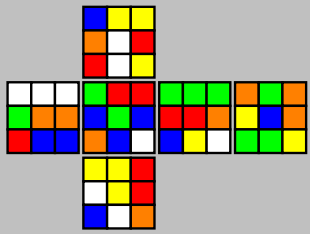
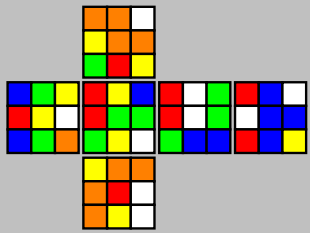
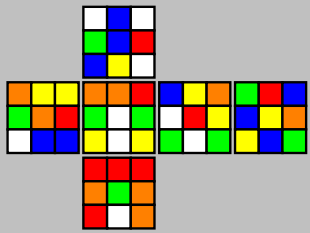
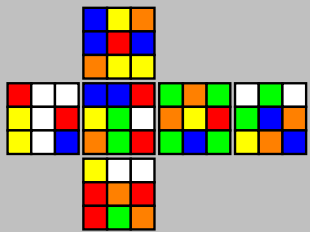
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|-----------------|-----|-----|-----|-----|------|------|-----|-----|
| 1. | U' | D | Lw' | Dw2 | R | U | D | R' |
| | Dw' | Fw' | L' | Dw2 | Bw' | F' | B2 | U |
| | B | Dw2 | U2 | Uw' | Fw2 | F' | Lw | R2 |
| | U2 | D' | F | Fw | Uw' | L2 | Uw | B' |
| | Dw2 | Fw | Uw | L2 | Lw' | R | B2 | Rw2 |
| | Dw | Rw | Dw' | Fw' | L2 | D | L | R2 |
| | Rw' | Dw2 | F' | R | Dw2 | L2 | Fw2 | Lw' |
| | D2 | Uw' | U | Rw2 | 3Rw' | 3Uw | | |
| 2. | B' | F' | Rw' | B2 | Dw' | L2 | B | U |
| | D2 | Bw | R | Fw | R' | B2 | Uw' | D' |
| | F' | U' | D' | R2 | Dw | Rw2 | F' | U2 |
| | Uw2 | B | Fw' | Dw2 | F2 | Uw' | Dw | Lw' |
| | R2 | F' | Dw2 | B | Uw2 | L' | D | Bw |
| | R' | Uw2 | Fw2 | F2 | L' | D' | F' | Bw2 |
| | Fw' | Dw2 | | | | | | |
| | 3Fw | 3Uw | | | | | | |
| 3. | B | L2 | Uw2 | Dw2 | Rw' | Bw' | Fw | Rw |
| | F' | D | Rw' | Dw | U | B' | U | Rw2 |
| | B | F' | Dw2 | Lw | L2 | U | F' | Fw |
| | B' | L | U | Uw' | Bw | F2 | Dw | Fw |
| | F' | Lw2 | Uw | L' | Dw' | Lw2 | Rw' | F2 |
| | Rw | F' | U | R2 | U2 | Lw | D' | F2 |
| | L2 | R' | Rw' | U2 | Dw' | Rw2 | F' | Bw' |
| | B | Fw' | Lw | D | 3Fw | 3Uw | | |
| Extra scrambles | | | | | | | | |
| E1. | F' | B2 | Bw2 | U2 | Lw' | B | Dw | B |
| | F' | Rw' | Lw2 | U | B2 | L' | F2 | Fw2 |
| | Dw | F2 | Bw2 | R' | U | F2 | Rw' | B2 |
| | F' | Rw' | L | U2 | Bw2 | F' | D2 | L' |
| | Uw' | B | Dw | U' | Uw | F' | B2 | Uw2 |
| | F2 | Uw2 | Rw | U2 | Rw | D' | R | U' |
| | Bw' | Dw' | F2 | Uw2 | F | Uw' | D' | Rw2 |
| | D' | B' | Uw' | R2 | 3Rw' | 3Uw2 | | |
| E2. | Rw | Fw' | U | D2 | Lw | Uw | L | R' |
| | F' | D | Lw | F2 | R | Fw2 | Bw2 | U |
| | B | Dw' | B | Rw | Dw | D2 | Rw | Uw2 |
| | R2 | Dw2 | U' | Rw' | Bw | D' | Bw | F2 |
| | L' | U' | Uw | B' | R | Uw | Bw2 | R |
| | Fw' | Lw' | Dw2 | Bw | Uw' | Bw' | F' | Lw' |
| | Dw | L | F2 | D2 | U2 | F | Lw' | L2 |
| | Fw2 | Rw | Fw2 | Bw2 | 3Uw2 | | | |

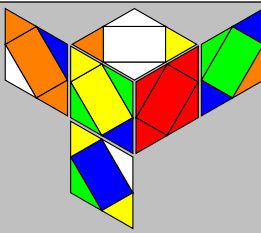
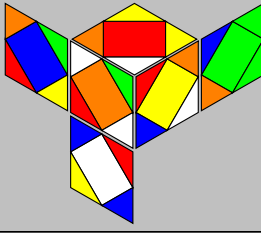
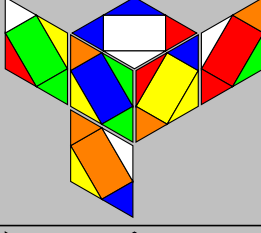
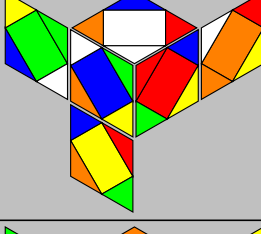
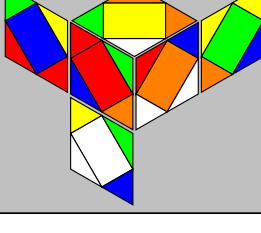
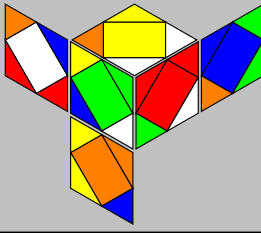
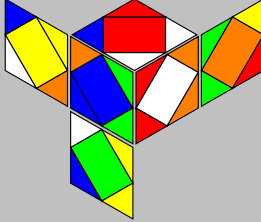
| | | |
|----|--|---|
| 1. | F' U2 L2 B R2 U2 F' R2 B' R2 U B' R F2 D B L' D' U' F' D' Fw Uw |  |
| 2. | B2 F2 L U2 B2 R2 B2 F2 R' B D' B2 F2 D2 F2 U F L F' R' Uw2 |  |
| 3. | D2 L2 R2 F L2 F U2 F2 R2 U2 R' F2 R' D U2 B' U2 L' R' D' Rw' |  |
| 4. | F2 U F2 R2 U' F2 L2 U B' U' B2 D' B F' L2 D F2 R' B' F2 Rw2 Uw2 |  |
| 5. | B2 D' U' L2 D U' R2 U' L' D' U2 B F' D L D2 U R2 F' D Fw Uw |  |
| 6. | F2 R2 F2 D2 L2 D2 B' L2 F2 D R' U2 B2 F' L D F R2 U L2 Fw' Uw |  |
| 7. | D' F2 U' B2 D2 F2 L2 B2 D B L2 B L' D L' F D2 R2 |  |

| | | |
|-----|---|---|
| 8. | R2 F2 U2 R2 B2 F2 D' B2 L F2 U2 R2 D L F' U R' F' L2 U2 Rw2 Uw' |  |
| 9. | U L2 D' F2 U L2 R2 U' L U' L' R' F2 R2 D' U B' D2 R' Fw Uw' |  |
| 10. | B D2 L2 D2 L2 F L2 U2 F' D' R U B D' L D' L2 D R' F2 Rw' |  |
| 11. | U2 L2 B D2 B2 F' L2 U2 F' D2 B D U2 B' U2 B' R' U2 B' U2 F' Rw' Uw |  |
| 12. | B2 D2 U' R2 U R2 B2 D2 R F' L F' R2 D F2 R2 D B' D' B' Uw' |  |
| 13. | U L2 B2 F2 D L2 B2 F2 D U R2 F' L U' R' F2 D2 U' F' D Fw' |  |
| 14. | L' U2 L R2 U2 F2 L' U2 B' L F' U2 B U2 L F' D2 U Rw' Uw' |  |

| | | |
|-----|---|---|
| 15. | L2 B D2 B2 U2 L2 B' R2 U' L U2 R' B U L D2 U' B R2 Fw |  |
| 16. | F2 L B2 L' B2 L D2 R' F L R2 B D2 L2 R U' R' B2 U' Fw Uw |  |
| 17. | R B2 D2 R U2 R' F2 D2 U2 L2 U2 F' L2 U B2 U' R' F L D F' Rw Uw' |  |
| 18. | F2 R' B2 L R2 U2 B2 U' L D2 B2 U2 F L' B D2 R U' Rw2 Uw |  |
| 19. | F2 L2 U R2 F2 U L2 U' L' D R2 D B' F' L R2 D B' F Uw2 |  |
| 20. | U2 R2 F' D2 U2 F U2 B2 L2 U2 B U' R2 D2 B' U' B' R' D' F2 Rw2 Uw |  |
| 21. | U F2 L2 U' R2 U' B2 R2 U' F U2 L B U L U F2 L' B2 R2 Uw2 |  |

| | | |
|-----|--|--|
| 22. | B2 D F2 U F2 U' L2 R2 B2 D' F' R D B' D R2 B' U B' L' R2 Fw Uw2 | |
| 23. | F2 L2 R' B2 F2 R' B2 U2 F' D' L2 B' L2 R B U2 F' L2 D2 Rw Uw2 | |
| 24. | D2 L2 U2 B' D2 F' L2 B2 D2 F R B2 U2 L' B' D' B D' U R' Fw | |
| 25. | F R2 D2 B' L2 R2 F R2 B2 R B' R2 D' U' R' D F' L2 D' U Fw' Uw | |
| 26. | R2 B2 U' F2 D' U2 B2 U B R' B U R B2 U L B' U2 L2 Uw' | |
| 27. | B' L2 B R2 U2 F' D2 B2 D2 L2 D' L B2 U2 L B R' D B F R2 Fw' Uw' | |
| 28. | L2 F' D2 R2 F' R2 F D B' U L R2 D' L2 D' B R B Rw' Uw2 | |

| | | |
|-----|--|---|
| 29. | R2 U2 B2 L2 D2 R2 F2 U L' F D' B' L' U2 R' D2 F2 U' L' U2 Fw |  |
| 30. | F2 R2 D2 R2 D' U' L2 U' R' F' U2 B L2 D' B2 L F' L R D2 Rw' Uw' |  |
| 31. | R2 F2 D F2 D' U R2 F2 R2 D B2 R D' U' L U2 B' R D' F' D' Fw Uw' |  |
| 32. | F2 L U B2 R F' D B2 U F' D2 L' B2 D2 F2 L' D2 R U2 |  |
| 33. | U2 B' R2 D2 F' R2 F2 L2 F' L D2 L2 F' L' D2 F' D' R' D' L2 Fw |  |
| 34. | D2 R2 B2 U L2 B2 U F2 L' B R' B' F' R' B' L B' U' L2 B Rw' |  |
| 35. | D' R2 U' F2 D2 B2 L2 B2 R D' U' R' B L2 D B U B F' D2 Fw' |  |

| | | |
|-----------------|------------------------------|---|
| 1. | L R L' B' U' B R U R L U' |  |
| 2. | L R U' L' B L' R U' B U R' |  |
| 3. | L R L R' L' B R U L' B' U' |  |
| 4. | L R B' U B L R' U' R' B R' |  |
| 5. | L R L B R L' B U' L R U' |  |
| Extra scrambles | | |
| E1. | L R L U' L B' R U' R' L R |  |
| E2. | L R L' R' U' R' L U' B' L B' |  |