

Rubik's Cubes

Grey Mitchell (she/they) (F2'19)

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What is a cube

- ◆ Invented by Ernő Rubik in 1974
- ◆ Originally called “Magic Cube”
- ◆ Began being sold worldwide in 1980
- ◆ Sold 350 million cubes by January 2009



What is speedcubing

- ◇ “Solve a twisty puzzle as fast as you can”
- ◇ World Cube Association (WCA)
- ◇ Single solve, best of 3, average of 3, average of 5 after best/worst removed...
- ◇ Regular solve, blindfolded, one-handed, fewest moves, solving with feet...

What is speedcubing

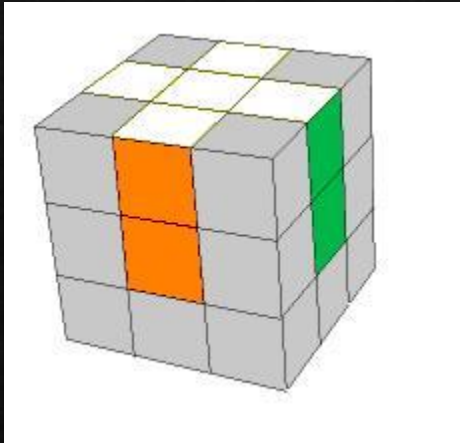
◇ 4.22 seconds (old WR) – Feliks Zemdegs, Cube for Cambodia 2018 (May 6, 2018)



How do you even do this

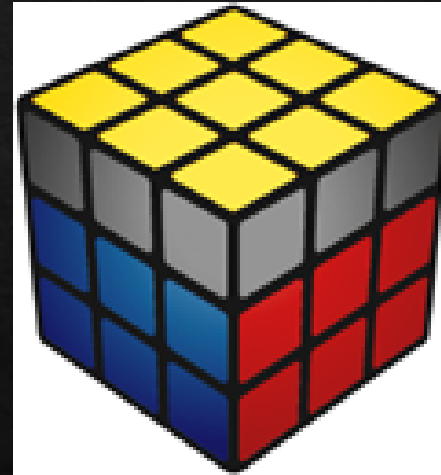
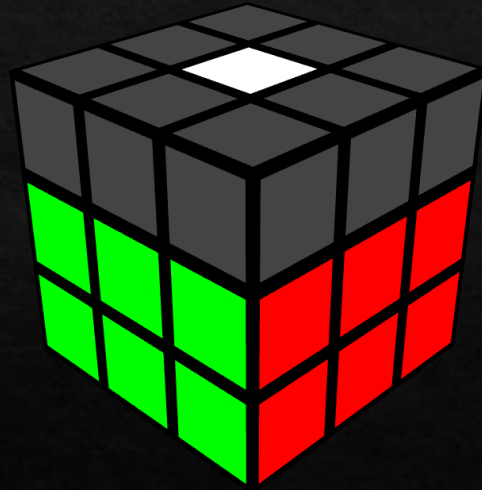
- ◇ CFOP (*C*ross, *F*irst two layers, *O*rient last layer, *P*ermute last layer)
 - ◇ Also called Fridrich Method, after Jessica Fridrich who popularized it in 1997
- ◇ Roux
 - ◇ Proposed by Gilles Roux in 2003
- ◇ ZZ
 - ◇ Proposed by Zbigniew Zborowski in 2006
- ◇ ...

How do you even do this (CFOP)



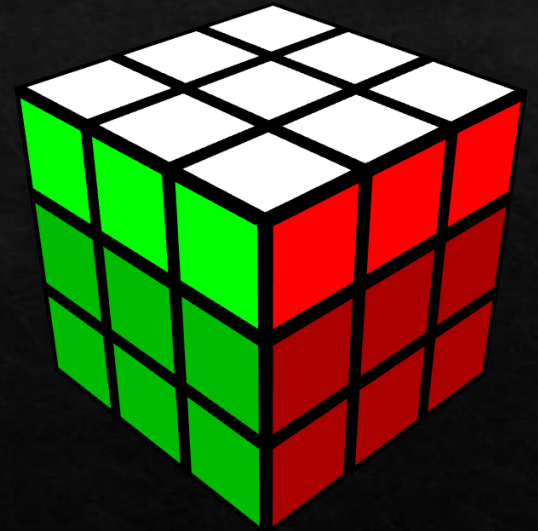
Cross

First 2 Layers
(F2L)



Orient Last Layer
(OLL)

Permute Last Layer
(PLL)



How do I even do this

- ◇ “Modified CFOP”
 - ◇ F2L, CPEOLL, 2GLL
- ◇ I was too stubborn to unlearn my beginner method >_>
- ◇ Orient the edges (make a plus), permute the corners (move them in the right spots), orient the corners (make the last face), permute the edges (final solve)
- ◇ Demo!

How to get started!

- ◇ <http://ozcubegirl.com/rubikscubesolution.html>
- ◇ <https://www.speedsolving.com/wiki>