

Speed-Cubing

<https://jperm.net/3x3/cfop>

Notation

| Symbol | R | L | U | D | F | B | M | E | S |
|-----------------|-------|------|----|------|-------|------|--------|---------|----------|
| Bedeutung | Right | Left | Up | Down | Front | Back | Middle | Equator | Standing |
| Würfeldrehungen | x | | y | | z | | | | |


Die Drehrichtung ist immer im Uhrzeigersinn, wenn man auf die Seite drauf schaut, mit folgenden Ausnahmen:

- **F'** bedeutet das die Drehrichtung gegen den Uhrzeigersinn geht
- **F2** zeigt eine 180° Drehung an, egal in welcher Richtung
- **Fw** bedeutet, dass nicht nur die Seite selbst, sondern auch die Mitte mit gedreht wird

Algorithmen

- [OLL](#)
- [PLL](#)
- [F2L](#)


2 Look OLL - Ecken


 **OLL-01**
OLL-02 + OLL-03

 **OLL-02**
F R U R' U' F'


 **OLL-03**
Fw R U R' U' Fw'

2 Look OLL - Kanten

 **OLL-04**
(R2 D) (R' U2) (R D') (R' U2 R')


 **OLL-05**
(Rw U R' U') (L' U R U')


 **OLL-06**
F' (Rw U R' U') (L' U R)

 **OLL-07**
(R U R' U) (R U2 R')

2 Look PLL - Kanten

 **Z-Perm**
M2 U M2 U M U2 M2 U2 M U2


 **H-Perm**
M2 U M2 U2 M2 U M2

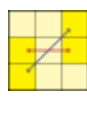
 **U-Perm**
M2 U M U2 M' U M2

 **U-Perm**
M2 U' M U2 M' U' M2

Ausgewählte PLL

 **L-Perm**
(R' U L' U2 R U') R' U2 L R U'

 **J-Perm**
(L U' R U2 L' U) L U2 R L U

 **N-Perm**
(L U' R U2 L' U) R' (L U' R U2 L' U) R' U'



OLL-08

$(L' U' L U') (L' U2 L)$



T-Perm

$R2 U R2 U' R2 U' D R2 U' R2 U R2 D'$



OLL-09

$(R U2) (R2 U') (R2 U') (R2 U2 R)$



F-Perm

$U R U' R' U R2 y R U R' U' x U' R' U R U2$



OLL-10

$L U L' U L U' L' U L U2 L$



V-Perm

$(D2 R U2) R' D (R U' R U' R U) R2 D (R' U' R)$

2 Look PLL - Ecken



A-Perm

$Lw' U R' D2 R U' R' D2 R2$



Y-Perm

$z U2 R U R' U' R y R U L' U L U R' U'$



A-Perm

$Rw U' L D2 L' U L D2 L2$



E-Perm

$x' (R U' R') D (R U R') D' (R U R') D (R U' R') D'$

Pretty Patterns



Cube in Cube

$F L F U' R U F2 L2 U' L' B D' B' L2 U$

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