

# 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

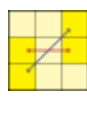
 **U-Perm**  
M2 U M U2 M' U M2

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

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Last update: **2024/12/18 13:57**

