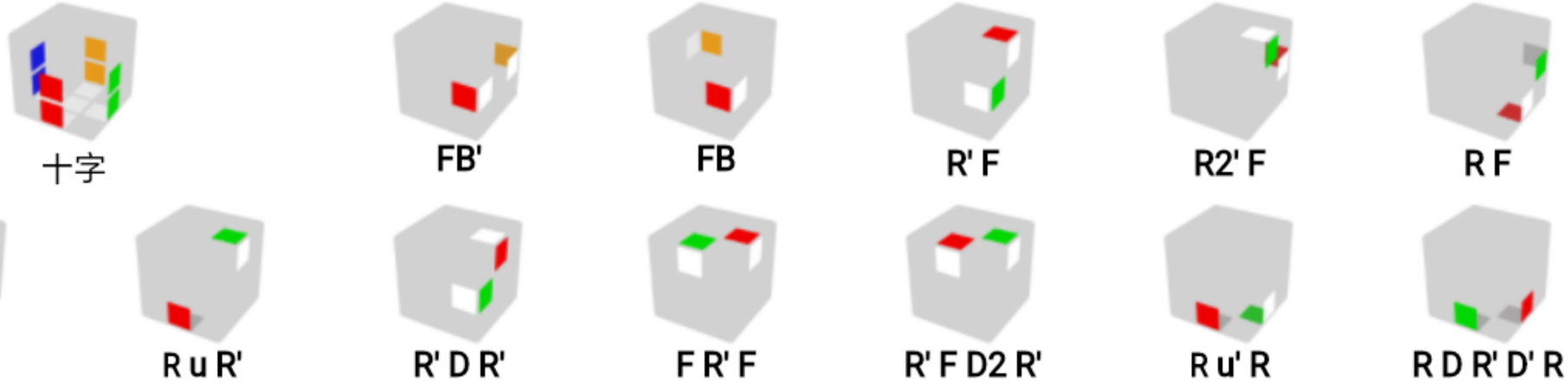
NXZ沐雨 CFOP公式

本文给出大部分人能接受的普遍的常规的优秀公式. 预备: 层先法 sub1. 理解学习 Cross 和 F2L. 学习顺序: CPFO. 平均步数 55. 打乱.

Cross

(二棱实例)



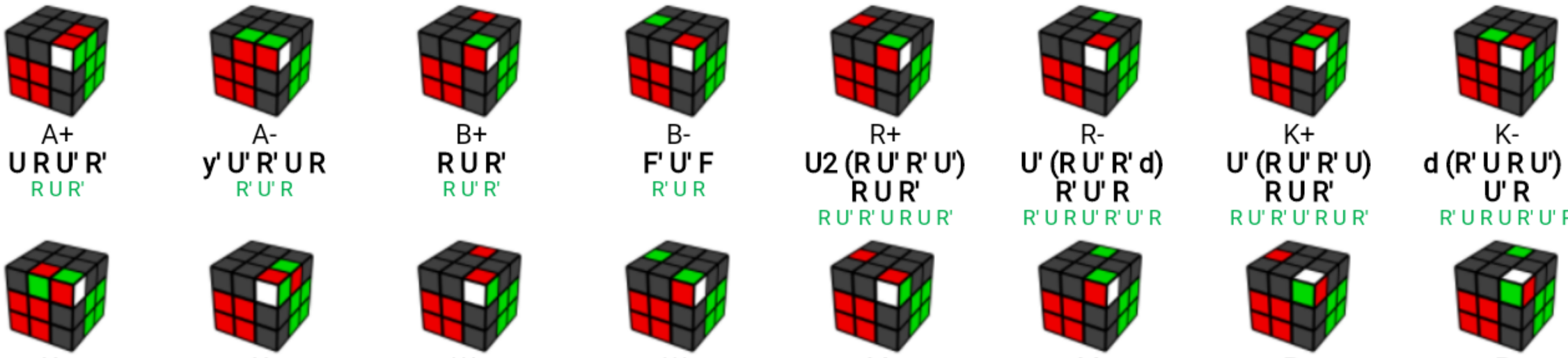
F2L

O

前两层 [22,41]

F

(R' F R F') (R' U2' R2 U R2' U R)



OLL

顶层色向 [40,57]

OELL

A

(r U R' U') (M U R U' R')

->

B

(R U R' U') (M' U R U' r')

<-

OCLL

S+
R U2' R' U' R U' R'
->

S-
R U R' U R U2' R'
<-

H
(R U R' U) (R U' R' U) R U2' R'

Pi
R U2' R2' U' R2 U' R2' U2' R

T
('R' U' R' D') (R U R' D R2)
->

L
R2 D' R U' R' D R U R
<-

U
R2 D (R' U2 R D') R' U2 R'
R' U2 R F U' R' U' R U F'

Sexy变体

K2
(F R' F' R) (U R U' R')
->

T2
(R U R' U') (R' F R F')
<-

T1
F (R U R' U') F'
->

P-
R' U' F' U F R
<-

P+
F (U R U' R') F'
F R U R' U' F'

I2
F (U R U' R')2 F'
->

V+
F (R U R' U')2 F'
<-

V-
F' (L' U' L U)2 F
F' (U' L' U L)2 F

小鱼变体

O-
r U2' R' U' R U' r'
->

N+
r U R' U R U2' r'
<-

O+
r' U2 R U R'U r
->

N-
r' U' R U' R' U2' r
<-

M+
M(R U R' U R U2' R') U M'
r' R U' R U2' R' U' R U' R2' r

M-
M'(R' U' R U' R' U2 R U' R) r'
M' U R' U2' R U R' U R2 r'

W形

W+
(R U R' U) (R U' R' U') (R' F R F')
F R' F' R U R U R' U' R U' R'

W-
(L' U' L U') (L' U L U) (L F' L' F)
R' F R U R' U' F2 U F R

C形

CU
R' U' (R' F R F') U R
R' U' F R' F' R U R

CT
(R U R2' U') (R' F R U) R U' F'
R' F R F' U R U R' d R' U R

9步

Q+
S (R U R' U') (R' F R f')
->

Z+
f (R' F' R U) (R U' R' S')
<-

Q-
R' U' (F U R U' R' F') R
<-

Z-
f' (r U r' U') (r' F r S)
R U B' U' R' U R B R'

Y形

Y+
(R U R' U) (R' F R F') R U2' R'
R' F R U R' F' R F U' F'

Y-
(R U R' U') (R' F R2 U R' U' F')
F U R U' R2' F' R U R U' R'

V形

E+
(r U R' U) (R U' R' U) R U2' r'

E-
r' U2 R U R' U' R U R' U r

R+
r U' r2' U r2 U r2' U' r
->

R-
r' U r2 U' r2' U' r2 U r'
<-

枪形

L+
r' U' r R' U' R U r' U r
R' F R U R' U' F' R U' R' U2 R

L-
r U r' (R U R' U') r U' r'
R' U2' R U R' F U R U' R' F' R

J+
F U (R U2' R' U') (R U R' F')
R U R' U' R' F R2 U R' U' F'

J-
R' F (R U R' F') (R F U' F')
F U F' R' F R U' R' F' R

滑翔机形

G+
(R U R' U R U2' R') (F R U R' U' F')
R' U' R U' R' U2' R F R U R' U' F'

G-
(R' U' R U' R' U2' R) (F R U R' U' F')
F U R U' R' F' R' U2 R U R' U R

F+
r' D' r U' r' D r2 U' r' U r U r'
F U R U2 R' U R U2 R' U' F'

F-
M U R U R' U' R' F R F' M'
R' U' R U' R' U2' R r U R' U R U2' r'

龟

K2
(R U2' R2' F R F') R U2' R'
R U2' R' F R' F' R2 U2' R'

I形

I3
R' F' U' F U' R U R' U R

I1
r' U' r (U' R' U R)2 r' U r
r U2 R' U' R2 r' U R' U' r U' r'

I4
(R' F U R U') (R2' F' R2 U) R' U' R
F U' R2 D R' U2 R D' R2' U F'

点

DH
R U' R2 D' r U' r' D R2 U R'
->

DPi
R U' R2 D' r U r' D R2 U R'

DS+
(f R U R' U' f') U' (F R U R' U' F')
->

DS-
(F U R U' R' F') U' (F R U R' U' F')
<-

DU
(R U2' R2' F R F') U2' (M' U R U' r')

DT
r' R U (R U R' U') (M'R' F R F')
->

DL
(R U R' U) (R' F R F') U2' (R' F R F')
<-

X
(r U R' U') M2' U (R U' R' U') M'

PLL

顶层排列 [13,21]

E
x' (R U' R' D) (R U R' D') (R U R' D) (R U' R' D') x

U+

M2' U' M U2 M' U' M2'

->

U-

M2' U M U2 M' U M2'

<-

Z

(M2' U2 M U) (M2' U M2' U M)

H

(M2' U M2') U2 (M2' U M2')

A+

(l' U R' D2) (R U' R' D2) R2

->

A-

x R2' D2 (R U R' D2) R U' R x'

J

(R U R' F') (R U R' U') (R' F R2 U' R')

->

L

(R' U L' U2) (R U' R' U2) R L

<-

T

(R U R' U') (R' F R2 U' R' U') (R U R' F')

F

R' U' F' (R U R' U' R' F R2 U' R' U' R U R') U R

Y

(F R U' R' U' R U R' F') (R U R' U' R' F R F')

V

(R' U R U') R' f' U' (R U2 R' U' R U') R' f R

Ra

(R U' R' U') (R U R D) (R' U' R D') R' U2 R'

<-

Rb

(R' U2' R U2) R' F (R U R' U') R' F' R2

->

Na

(R U R' U) (R U R' F' R U R' U' R' F R2 U' R' U2) R U' R'

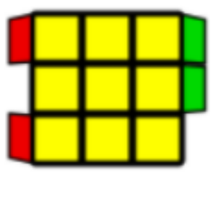
Nb

(R' U R U') (R' F' U' F) (R U R' U') R U' f R f'

Ga

R2 U (R' U R' U') (R U' R2 U'D) (R' U R D')

->



Gb

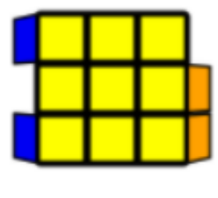
R' U' R U D' R2 U R' U R U' R U' R2 D

<-

Gc

(R2' U' R U') (R U R' U) R2 UD' (R U' R' D)

->



Gd

(R U R' U'D) (R2 U' R U') (R' U R' U) R2 D'

<-