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description: History of the CFCE method for Rubik's Cube.

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import Exhibit from "@site/src/components/Exhibit";

import YouTube from "@site/src/components/YouTube";

import ImageCollage from '@site/src/components/ImageCollage';

# CFCE

<Exhibit

stickering={{

solved: "U D F B L R DF DL DB DR DFR DFL DBL DBR FR FL BL BR UFR UFL UBL UBR"}}

/>

## Description

\*\*Proposer:\*\* [Guus Razoux Schultz](CubingContributors/MethodDevelopers.md#schultz-guus-razoux)

\*\*Proposed:\*\* 1981

\*\*Steps:\*\*

1. Cross: Solve the four bottom layer edges.

2. First Two Layers (F2L): Solve the four corner and edge pairs around the bottom two layers.

3. Corners of the Last Layer (CLL): Solve the corners of the upper layer.

4. Edges of the Last Layer (ELL): Solve the edges of the upper layer.

[Click here for more step details on the SpeedSolving wiki](https://www.speedsolving.com/wiki/index.php/CFCE)

## Proposal

Guus Razoux Schultz started developing CFCE in September, 1981 [1]. A few months later, Schultz learned of the F2L pair concept and integrated it into his method.

![](img/CFCE/Proposal.png)

> Schultz described the method's origins to me in the above private message.

## World Rubik's Cube Championship 1982

Schultz used CFCE at the World Rubik's Cube Championship 1982 [2]. This makes Schultz the first person to have used the F2L pairing technique in an official World Cube Association competition.

![](img/CFCE/WorldChampionship.png)

# References

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| [1] | G. R. Schultz, "Personal communication with M. J. Straughan," SpeedSolving.com, 25 August 2022. [Online]. |
| [2] | D. Singmaster, "THE FIRST WORLD CHAMPIONSHIP," Cubic Circular, 1982. [Online]. Available: https://www.jaapsch.net/puzzles/cubic3.htm#p4. |