# DiPalma L3C Reduction

A collection of L3C reduction strategies proposed by [Matt DiPalma](CubingContributors/MethodDevelopers.md#dipalma-matt).

## Speed-Heise

Speed-Heise was first proposed in December, 2014 on the Italian site speedcubing.it [1].

![](img/DiPalmaL3CReduction/Speed-Heise1.png)

Two versions of Speed-Heise were added to DiPalma's blog in March, 2015. One was called Simplified [2] and the other was called Complete [3].

![](img/DiPalmaL3CReduction/Speed-Heise2.png)

![](img/DiPalmaL3CReduction/Speed-Heise3.png)

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

## Tripod Supplement

In March, 2015 DiPalma developed the algorithms for the Tripod method to permute all edges and solve the DFR corner [4].

![](img/DiPalmaL3CReduction/TMS.png)

## Cardan Reduction

In March, 2017 DiPalma proposed Cardan Reduction [5].

![](img/DiPalmaL3CReduction/CR.png)

## CR†

CR† was proposed in the same post as Cardan Reduction [5].

![](img/DiPalmaL3CReduction/CR+.png)

## SIMPLE

SIMPLE was proposed in August, 2017 [6].

![](img/DiPalmaL3CReduction/SIMPLE.png)

## Early Developments

In July, 2012, DiPalma posted a couple of messages to speedsolving.com that may have been the start of DiPalma's exploration of L3C ideas [7, 8].

![](img/DiPalmaL3CReduction/Origin1.png)

![](img/DiPalmaL3CReduction/Origin2.png)

# References

|  |  |
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