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[Home](#) \* [Engines](#) \* **Phoenix (Rahul)**

### Phoenix,

an [UCI](#) compliant [Java](#) chess engine and masters thesis program by [Rahul A. R.](#), which is basically a modified [CuckooChess](#) by [Peter Österlund](#). Ten [piece-square tables](#), for all six [piece types](#) of the [opening](#) phase, plus four piece types (no rook and queen) of the [endgame](#), that is a vector of 640 values is interpreted as [chromosome](#) to be trained by a [genetic algorithm](#) approach. After 1000 games <sup>[1]</sup>, the modified engine Phoenix apparently outperformed its parent CuckooChess with a rating of 2546 (an increase of 19 points) <sup>[2]</sup>. After investigations by the original CuckooChess author, he found Phoenix played all games with White! Further, by using the published piece-square tables, Peter Österlund found the modified version around 400 elo weaker than the original <sup>[3]</sup>.

## See also

- [Bird](#)
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- [Texel's Tuning Method](#)

## Namesake

- [Phoenix](#)
- [Phoenix Chess Systems](#)

## Publications

[4]

- [Rahul A. R.](#) (2014). *Phoenix : A Self Learning Chess Engine*. for the Award of M. Tech in Information Technology, [International Institute of Information Technology, Bangalore](#), [Bangalore](#), advisor [G. Srinivasaraghavan](#), pdf <sup>[5]</sup>
- [Rahul A. R.](#), [G. Srinivasaraghavan](#) (2016). *Phoenix: A Self-Optimizing Chess Engine*. [arXiv:1603.09051](#)

## Forum Posts

- [PHOENIX=CuckooChess with learning function in Falcon style !](#) by [Ruxy Sylwyka](#), [CCC](#), February 26, 2015
- [Re: PHOENIX=CuckooChess with learning function in Falcon style](#) by [Peter Österlund](#), [CCC](#), March 20, 2016

## External Links

### Chess Engine

- [Phoenix: A Self-Learning Chess Engine](#)
- [rahular/phoenix · GitHub](#)

### Misc

- [Phoenix \(mythology\) from Wikipedia](#)
- [Phoenix \(demonology\) from Wikipedia](#)
- [Welcome to Phoenix Chess Systems](#) by [Ruud Martin](#)

## References

1. [A word for casual testers](#) by [Don Dailey](#), [CCC](#), December 25, 2012
2. [Phoenix: A Self-Learning Chess Engine](#) - 4.3: Results
3. [Re: PHOENIX=CuckooChess with learning function in Falcon style](#) by [Peter Österlund](#), [CCC](#), March 20, 2016
4. [phoenix/docs at master · rahular/phoenix · GitHub](#)

5. [^ Re: PHOENIX=CuckooChess with learning function in Falcon style](#) by [Peter Österlund](#), [CCC](#),  
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