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[Aristarchus of Samos](#) <sup>[3]</sup>

### **Aristarch,**

a chess engine by [Stefan Zipproth](#), compliant to the [Chess Engine Communication Protocol](#) as well as the [Universal Chess Interface](#), running under [Windows](#).

The development of Aristarch already started in 1995 and was first written in [Basic](#), version 2 was mainly a [C](#) port, but version 3 was a complete rewrite in [C++](#), using a strictly [object oriented](#) design, utilizing [bitboards](#) to represent the board, and apparently [rotated bitboards](#) to generate [sliding piece attacks](#). Version 4.0 includes several improvements, the most important being a completely new [pawn evaluation](#) routine <sup>[1]</sup>, it otherwise has a rather speculative [king safety](#) evaluation. Beside commonly known search [extensions](#) and [reductions](#), Version 4.21 introduced an original [pruning](#) method based on 8 simple conditions <sup>[2]</sup>. Aristarch played the [CCT4](#) and [CCT5 online tournaments](#).

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## Etymology

The name of the engine has its origin in the [ancient Greek astronomer](#) and [mathematician Aristarchus of Samos](#) (310 BCE - ca. 230 BCE) <sup>[4]</sup>, who presented the first known model of [Heliocentrism](#) that placed the [Sun](#) at the center of the known [universe](#) with the [Earth](#) revolving around it. He calculated the [sizes of the Sun and Moon](#), as well as their distances from the Earth in terms of Earth's radius.

## See also

- [Astronomy](#)
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## Forum Posts

- [Exciting Aristarch](#) by [Sune Larsson](#), [CCC](#), August 05, 2002
- [Re: To Stefan Zipproth \(Aristarch\)](#) by [Stefan Zipproth](#), [CCC](#), August 07, 2002
- [Amateur vs Prof: Aristarch 4.4 vs Nimzo 7.32 \(2\)](#) by [Kurt Utzinger](#), [CCC](#), August 10, 2002
- [Re: who is Aristarch ?](#) by [John Merlino](#), [CCC](#), August 12, 2002
- [Amateurs vs Professionals \(Aristarch 4.4 vs Nimzo 7.32\) 7.0-14.0](#) by [Kurt Utzinger](#), [CCC](#), August 16, 2002
- [List 512 UCI und Aristarch 4.37 ready for Download](#) by Andreas Aicher, [CCC](#), January 26, 2004
- [Nice win from Aristarch 4.50](#) by [Graham Banks](#), [CCC](#), April 21, 2008
- [A New Version Of Aristarch](#) by David Schumaker, [CCC](#), December 02, 2010

## External Links

### Chess Engine

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## Misc

- [Aristarch - Wiktionary](#)
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- [On the Sizes and Distances \(Aristarchus\) from Wikipedia](#)
- [Aristarchus of Samos from NNDB](#)
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- [Aristarchus \(crater\) from Wikipedia](#)
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## References

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