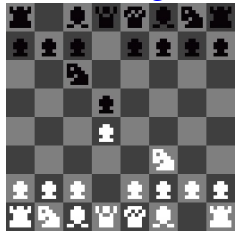


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Toledo [GUI](#) ^[5]

Toledo,

a family of minimalistic [open source chess programs](#) by [Óscar Toledo Gutiérrez](#). Toledo **Chess 1** with text-mode [user interface](#) is written in [C](#) ^[1], and won the 18th [International Obfuscated C Code Contest](#) (IOCCC) 2005 in the Game category ^[2]. Toledo **Chess 2** even has an own [X-Window](#) and [Windows graphical user interface](#) and won the 19th IOCCC ^[3].

Further, Toledo **Nanochess** in C as well, occupies only 1274 non-blank characters, while Toledo **Picochess** fits in 1K of source, but without [en passant](#), [castling](#) or [minor promotion](#). Toledo **Javascript** is the Nanochess [JavaScript](#) version, 2258 bytes , and Toledo **Java** the [Java](#) port. In January 2015, Óscar Toledo G. released Toledo **Atomchess**, a chess program of only 481 bytes of [x86](#) machine code ^[4].

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- [Toledo 2000](#) by [Gerardo Castaño Recio](#)

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Selected Publications

- [Óscar Toledo Gutiérrez](#) (2009). *The World's Smallest Chess Program*. [ICGA Journal, Vol. 32, No. 1](#)
- [Harm Geert Muller](#) (2009). *Toledo Nanochess*. [ICGA Journal, Vol. 32, No. 1](#)
- [Óscar Toledo Gutiérrez](#) (2014). *Toledo Nanochess: The Commented Source Code*. [Lulu.com](#), [amazon](#) ^[6]

Forum Post

- [World smallest chess program](#) by [Óscar Toledo Gutiérrez](#), [comp.lang.c](#), November 22, 2006
- [Current world's smallest chess program](#) by [Óscar Toledo Gutiérrez](#), [CCC](#), February 20, 2009
- [Toledo Nanochess: The commented source code \(book\)](#) by [Óscar Toledo Gutiérrez](#), [CCC](#), February 11, 2014
- [Re: BootChess \(minimal chess engine\)](#) by [Óscar Toledo Gutiérrez](#), [CCC](#), January 31, 2015

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- [Toledo Nanochess from Wikipedia](#)
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- [The International Obfuscated C Code Contest - People Who Have Won | T](#)
- [Toledo \(disambiguation page\) from Wikipedia](#)
- [Paulinho da Costa](#) - Toledo Bagel, [YouTube](#) Video

References

1. [^ Toledo text-mode chess game](#)
2. [^ Who won the 18th IOCCC](#)
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4. [^ Toledo Atomchess Game](#)
5. [^ Graphical Chess Game. 19th IOCCC. Most Portable Chess Set](#)
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