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Fischerle Logo

### **Fischerle,**

a [Java-based](#) chess engine that has been developed by [Roland Stuckardt](#). Fischerle implements the [UCI](#) protocol. It is recommended to employ it from within the [Arena](#) environment. Additionally, Fischerle has an own [GUI](#) providing supplementary configuration and testing features; in principle, it can thus be used independently of UCI based chess GUIs. Fischerle is available for download at its author's web pages

.

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## Technology

Fischerle's representation of chess positions is based on the [rotated bitboard](#) model. Fischerle employs some well-known techniques of enhanced [alpha-beta](#) minimax search:

- [NegaScout](#) algorithm
- [Iterative deepening \(ID\)](#) and [IID](#)
- [Aspiration windows](#)
- [History heuristic](#)
- [Killer heuristic](#)
- [Hash tables](#)
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- [Search extensions](#):
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  - [7th rank Passed pawn extensions](#)
  - [Check evasions](#) only by a singular / a few moves
  - [Winning recaptures](#)
  - [Singular extensions](#) (restricted implementation that doesn't apply at [Cut nodes](#) and that considers only [transposition table](#) moves as singularity candidates the value of which is marked there as exact or lower bound)
    - extension by several plies at the very moment a [pawn endgame](#) is reached
- [Tactically](#) painless [reductions](#) according to the [enhanced model](#) suggested by [Ernst A. Heinz](#)
  - [Adaptive Null Move Pruning](#)
  - [Extended Futility Pruning](#)
  - [Limited Razoring](#)
- [Late Move Reductions](#)
- [Interior node recognition](#) similar to Heinz's proposal <sup>[1]</sup>
- Dedicated scoring functions for some particular [endgame](#) types

The static [evaluation](#) parameters of Fischerle are amenable to external fine tuning based on a concept of so-called efb (*evaluation factor block*) files, thus enabling the user to influence, within certain bounds, Fischerle's playing style (e. g. to prefer closed positions, etc.). Fischerle comes with its own, small [opening](#)

[book](#), covering about 220K positions and some 540K moves. Fischerle supports [pondering](#) via its [UCI](#) interface.

## Performance

According to extensive test tournaments, Fischerle is sufficiently well equipped with chess wit in order to compete in the CCRL 40/40 Elo 2250-2350 range. [Fischerle 0.9.70 SE](#) has been ranked at place 235 of the [CCRL 40/40 list](#) with a CCRL 40/40 Elo score of 2291 (March 25, 2017).

## Latest Version

[Fischerle 0.9.80 SE](#) (March 24, 2017) - a slightly more aggressive forward [pruning](#) scheme is now applied; [quiescence search](#) has been mildly refined (adding, in particular, [delta pruning](#)); the piece value assigned to [bishops](#) and the [bishop pair](#) bonus have been slightly reduced; [king safety](#) evaluation has been refined; the mate approaching scheme has been enhanced.

## Etymology

*"Ein Mensch, was ka Schach spielt, ist ka Mensch"* <sup>[2]</sup>

## Auto-da-Fé



Fischerle <sup>[3]</sup> is named after a famous character of [Elias Canetti's](#) novel [„Die Blendung“](#) ([„Auto-da-Fé“](#)) <sup>[4]</sup> <sup>[5]</sup>, which plays in [Vienna](#) <sup>[6]</sup> around protagonist [Peter Kien](#), a middle-aged philologist and [Sinologist](#): [Siegfried Fischerle](#) <sup>[7]</sup>, a [Jewish](#) <sup>[8]</sup> [hunchbacked dwarf](#) and [pander](#), is a [chess addict](#) whose dream is it to go to America to challenge chess champion [José Raúl Capablanca](#) in order to get rich and famous. Canetti wrote his novel in the years 1930/31, coincidentally more than

Die Blendung by [Doris Neidl](#) <sup>[10]</sup>

one decade before [Nazi German Oberfeldwebel Siegfried Fischer](#) was decorated with the [Knight's Cross of the Iron Cross](#), Jewish artist and poet [Peter Kien](#) died in [Auschwitz concentration camp](#), and more than two decades before chess genius [Bobby Fischer](#) entered the international chess scene <sup>[9]</sup>.

## Publications

<sup>[11]</sup>

- [Elias Canetti \(1936\)](#). [Die Blendung](#). Wien 1936, [Editio princeps](#) (German)
- [Elias Canetti \(1946\)](#). [Auto-da-Fe](#). Translated by [Veronica Wedgwood](#)
- Peter Jansen (1980). *Die Komik des Sprechens. Zur sprachlich-ästhetischen Erfahrung des Komischen am Beispiel von Canettis Roman "Die Blendung"*. in [Sprache im technischen Zeitalter](#), 76 (German)
- [Nicola Riedner \(1994\)](#). [Canettis Fischerle: eine Figur zwischen Masse, Macht und Blendung](#). [Königshausen und Neumann](#) (German)
- [Harriet Murphy \(1996\)](#). [Canetti and Nietzsche: Theories of Humor in Die Blendung](#). [State University of New York Press](#) <sup>[12]</sup>
- [Ritchie Robertson \(1999\)](#). [The 'Jewish Question' in German Literature 1749 - 1939 Emancipation and Discontents](#). [Oxford University Press](#) <sup>[13]</sup>
- [William Collins Donahue \(2001\)](#). [The End of Modernism : Elias Canetti's Auto-da-fê](#). [University of North Carolina Press](#) <sup>[14]</sup>
- [Marcus Puknatis \(2002,2007\)](#). [Elias Canettis 'Die Blendung' - Typische Österreichische Nationalliteratur?](#) [GRIN Verlag](#) (German)
- Yun Chen (2003). [Canetti und die chinesische Kultur](#). [Dissertation](#), [Heinrich Heine University Düsseldorf](#) (German)
- [Hidas Ildikó \(2008\)](#). *Elias Canettis Roman Die Blendung im Schnittpunkt zeitgenössischer Diskurse*. Ph.D. thesis, [Pázmány Péter Catholic University, Piliscsaba](#), [pdf](#) (German)

## Fischers Fritz

The German [tongue-twister](#) "Fischers Fritz fischt frische Fische. Frische Fische fischt Fischers Fritz." (Fisher's Fritz fishes fresh fish, fresh fish are fished by fisher's Fritz) is not related to [Fritz Fischer](#) but may be to Fischerle's famous brother [Fritz](#)?

## See also

- [Bobby](#)
- [Capablanca Edition](#)
- [Chess Fever \(Shakhmatnaya goryachka\)](#)
- [Chess legends](#)
- [Fiction](#)
- [Fish](#)

## Forum Posts

### 2014

- [Nice move by Fischerle \(Division 7 engine in my Amateurs\)](#) by [Graham Banks](#), [CCC](#), January 11, 2014
- [A good 64-bit Java chess engine unknown here](#) by [Ruxy Sylwyka](#), [CCC](#), February 12, 2014
- [No GUI problems with Fischerle](#) by [Norbert Raimund Leisner](#), [CCC](#), February 18, 2014
- [Re: 32-bit and 64-bit java engines](#) by [Roland Stuckardt](#), [CCC](#), February 24, 2014
- [New Fischerle Versions \(64 and 32 Bit\)](#) by [Roland Stuckardt](#), [CCC](#), May 15, 2014
- [New Fischerle Version: 0.9.60](#) by [Roland Stuckardt](#), [CCC](#), October 07, 2014

### 2015 ...

- [New Fischerle Version: 0.9.65](#) by [Roland Stuckardt](#), [CCC](#), September 17, 2015
- [New Fischerle Version: 0.9.70 SE](#) by [Roland Stuckardt](#), [CCC](#), March 25, 2016
- [New Fischerle Version: 0.9.80 SE](#) by [Roland Stuckardt](#), [CCC](#), March 24, 2017

## External Links

### Chess Engine

- [Schachengine Fischerle](#) (German)  
[Schachengine Fischerle - Techniken im Überblick](#)  
[Schachengine Fischerle - Benutzeroberfläche](#)
- [Fischerle 0.9.65 64-bit](#) in [CCRL 40/40](#)

### Misc

- [Fischer - Wiktionary](#)
- [Fischer from Wikipedia](#)  
[Bobby Fischer from Wikipedia](#)
- [Auto-da-Fé from Wikipedia](#)
- [Fisherman from Wikipedia](#)

- [Fish from Wikipedia](#)
- [Fish anatomy from Wikipedia](#)
- [Fischerle](#) - The Love Bruises, [YouTube](#) Video

## References

1. <sup>^</sup> [Ernst A. Heinz \(1998\). Efficient Interior-Node Recognition. ICCA Journal, Vol. 21, No. 3](#)
2. <sup>^</sup> "A person who does not play chess, is not a man", [direct speech](#) in [Viennese German](#) of Fischerle to [Kien](#), in [Elias Canetti \(1936\). Die Blendung. Wien 1936, Editio princeps](#), p. 191.
3. <sup>^</sup> Fischerle - [Diminutive form](#) of [Fischer](#)
4. <sup>^</sup> [Auto-da-fé from Wikipedia](#)
5. <sup>^</sup> [Talk Literature: Auto-da-Fé - Elias Canetti](#) by Lale, February 21, 2010
6. <sup>^</sup> [History of the Jews in Vienna - from Wikipedia](#)
7. <sup>^</sup> [Nicola Riedner \(1994\). Canettis Fischerle: eine Figur zwischen Masse, Macht und Blendung. Königshausen und Neumann](#), page 40, footnote 174, [Google books](#), "Peter Jansen behauptet fälschlicherweise, daß Fischerle eigentlich Fischer hieße und nur aufgrund seiner Gestalt das Verkleinerungssuffix durch andere hinzubekommen hätte". Peter Jansen (1980). *Die Komik des Sprechens. Zur sprachlich-ästhetischen Erfahrung des Komischen am Beispiel von Canettis Roman "Die Blendung"*. in [Sprache im technischen Zeitalter](#), 76
8. <sup>^</sup> further in [Nicola Riedner \(1994\). Canettis Fischerle: eine Figur zwischen Masse, Macht und Blendung. Königshausen und Neumann](#), page 41-42, During the time of writing of the novel (1930/31) the German given name [Siegfried](#) for Jewish children was indication of Jewish will for [assimilation](#), footnote 179, Konrad Krause (1943). [Die jüdische Namenswelt. Essener Verlagsanstalt](#), Publisher of the [Nazi Party](#), S. 11, "Denn es ist bekannt, in welchem Ausmaß die Juden [...] unsere herrlichen alten Namen z.T. nahezu entwertet haben. Dieses Schicksal erlitten besonders die 'Sieg'namen ..."
9. <sup>^</sup> Bobby Fischer, whose mother was Jewish, and whose possible biological father was also Jewish, made numerous [Anti-semitic](#) statements, see [Bobby Fischer - Anti-semitic statements - from Wikipedia](#)
10. <sup>^</sup> [Die Blendung - Illustrations - Gallery](#), capturing the crazy and wondrous journey of [Sinologist Peter Kien](#). Copyright © 2013 by [Doris Neidl](#)
11. <sup>^</sup> [Elias Canetti: Sekundärliteratur](#) (German)
12. <sup>^</sup> [Friedrich Nietzsche from Wikipedia](#)
13. <sup>^</sup> [Jewish question from Wikipedia](#)
14. <sup>^</sup> [German: Willkommen](#)

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