

[Home](#) * [Engines](#) * **Rybka**

Rybka 4 Logo ^[3]

Rybka,

a chess engine by primary author [Vasik Rajlich](#), since 2007 dominating and reigning [World Computer Chess Champion](#) and holder of the [Shannon Trophy](#), winning the [WCCC 2007](#) ^[1], [WCCC 2008](#), [WCCC 2009](#) and [WCCC 2010](#), but in June 2011 [disqualified](#) by the [ICGA](#) from all previous and future World Computer Chess Championships ^[2]. Rybka further won various [IPCCC](#), [Dutch Open Computer Chess Championships](#), [International CSVN Tournaments](#) and on-line tournaments such as [CCT Tournaments](#) and [ACCA Americas' Computer Chess Championships](#). Rybka is a standalone chess engine supporting the [UCI](#) protocol.

Table of Contents

[Screenshots](#)

[Team](#)

[Versions](#)

[Achievements](#)

[Program Internals](#)

[Release Dates](#)

[Controversies](#)

[Rybka 1.0 and Fruit](#)

[Ippolit](#)

[Open Letters](#)

[Pre-Beta Rybka and Crafty](#)

[Disqualification](#)

[See also](#)

[Publications](#)

[Forum Posts](#)

[2004](#)

[2005](#)

[2006](#)

[2007](#)

[2008](#)

[2009](#)

[2010](#)

[2011](#)

[2012](#)

[External Links](#)

[Rybka](#)

[Controversy](#)

[References](#)

[What links here?](#)

Screenshots

[ChessBase GUI](#), 3D boards with scoresheet and analysis board ^[14]



Deep Rybka 4 [Aquarium](#) by [ChessOK](#) ^[15]

Team

The Rybka team consists of primary author and [International Master](#) [Vasik Rajlich](#), supported by [Grandmaster](#) and [evaluation](#) expert [Larry Kaufman](#) (Rybka 3), Rybka's main tester and [Women's GM \(WGM\)](#) and IM [Iweta Rajlich](#), the [opening book authors](#) [Jeroen Noomen](#), [Dagh Nielsen](#), [Jiří Dufek](#) and [Nick Carlin](#), as well as Rybka primary tournament operator [Hans van der Zijden](#), hardware expert [Lukas Cimiotti](#) and Webmaster and Webdesigner [Felix](#) and [Christoph Kling](#) ^[16].

Versions

Vasik Rajlich started developing Rybka in about 2003, and worked full-time on it since 2005. The appearance of the free *Rybka 1 beta* ^[17] ^[18] ^[19] and the first commercial version, *Rybka 1* ^[10] end of 2005 was a sensation, and Rybka soon became the dominating program leading [rating lists](#) by a huge margin ^[11] ^[12]. *Rybka 3* was developed in collaboration with [Larry Kaufman](#), the most recent and strongest version *Rybka 4* and the parallel version *Deep Rybka 4* appeared in April 2010, market as standalone chess engine from RybkaChess.com ^[13], from [ChessOK](#) optional with the [Aquarium GUI](#) ^[14], or from [ChessBase](#) packaged with the [Fritz GUI](#) ^[15]. The demo version *Rybka 2.3.2a* can be downloaded for free ^[16].

Achievements

^[17]

Year	Tournament	Rank/From	Title/Remarks
2004	CCT6	50/54	

2005	IPCCC 2005 b	1/12	
2006	CCT8	1/38	
	ICT 2006	1	
	WCCC 2006	3/18	<i>as Rajlich</i> , disqualified 2011
	DOCCC 2006	1	
	IPCCC 2006	1/10	
2007	ACCA 2007	1/16	
	CCT9	1/54	
	ICT 2007	1	
	WCCC 2007	1/12	World Computer Chess Champion, disqualified 2011
	DOCCC 2007	1/14	
	IPCCC 2007	2/10	
2008	ACCA 2008	1/18	
	ICT 2008	1	
	WCCC 2008	1/10	World Computer Chess Champion, disqualified 2011
	DOCCC 2008	1/10	
2009	ACCA 2009	1/12	
	WCCC 2009	1/10	World Computer Chess Champion, disqualified 2011
	DOCCC 2009	1/9	
2010	ICT 2010	1/14	

	WCCC 2010	1/10	World Computer Chess Champion, disqualified 2011
	DOCCC 2010	1/20	
2012	ICT 2012	1/8	

Program Internals

Rybka is a [bitboard](#) engine, first versions [rotated](#), Rybka 4 apparently [magic bitboards](#) for [sliding piece attack](#) and [move generation](#). Vasik once posted a snippet of Rybka source-code, a typical [bitboard serialization](#) loop to generate white knight captures ^[18].

```
for (bb_t knights = Board.pieces [WN]; knights; knights &= knights-1)
{
    int knight_sq = bit_scan (knights);
    for (bb_t captures = knight_moves [knight_sq] &
        opponent_pieces; captures; captures &= captures - 1)
    {
        int capture_sq = bit_scan (captures);
        *moves ++ = move (knight_sq, capture_sq);
        *values++ = Board.sq [capture_sq] * 256 + 192;
    }
}
```

Due to the disputed [open source engines Strelka 2.0](#) and later [Ippolit](#), which accordant to Vasik Rajlich were both based on or heavily influenced by re-engineered Rybka executables ^{[19] [20]}, other implementation details were released to the public, such as [material-](#) and material imbalance tables, aggressive [LMR](#), [razoring](#) ^[21] and some variation of [singular extensions](#) ^[22]. [Zach Wegner](#) elaborated on [evaluation](#) issues, and compared *Rybka 1 beta* with [Fruit's](#) evaluation ^{[23] [24]}, continued by former anonymous author "BB+" alias [Mark Watkins](#) in February 2011 ^[25].

Release Dates

- Rybka 1.0 beta : 2005-12
- Rybka 1.0 :
- Rybka 1.1 : 2006-04
- Rybka 1.2 : 2006-06
- Rybka 1.5 :

- Rybka 1.6.1 :
- Rybka 2.0 :
- Rybka 2.2 : 2006
- Rybka 2.2n2 : 2006-12
- Rybka 2.3 : 2007-01
- Rybka 2.3.1 : 2007-02
- Rybka 2.3.2a : 2007-06
- Rybka 3 : 2008-08
- Rybka 4 : 2010-05
- Rybka 4.1 : 2011-3

Controversies

Rybka 1.0 and Fruit

Rajlich's interpretation of [nodes](#) and [depth](#) ^[26] ^[27] ^[28] ^[29] ^[30], and the [controversy](#) about [Strelka](#) ^[31] ^[32] raised suspicions about the initial origin of Rybka 1.0 ^[33] ^[34], but Vasik Rajlich categorically denied [Rybka 1.0](#) was based on [Fruit](#) ^[35] ^[36], as mentioned by [Chrilly Donninger](#) in 2005 ^[37] after early rumors ^[38] and questions ^[39] arose.

Vasik Rajlich's most quoted statement in these discussions was probably from an interview in *uciengines.de*, December 20, 2005 ^[40] :

Yes, the publication of Fruit 2.1 was huge. Look at how many engines took a massive jump in its wake: Rybka, Hiarcs, Fritz, Zappa, Spike, List, and so on. I went through the Fruit 2.1 source code forwards and backwards and took many things.

...

Anyway, if I really had to give a number - my wild guess is that Rybka would be 20 rating points weaker had Fruit not appeared.

Ippolit

The appearance of the [Ippolit open source program](#) by pseudonymous authors in May 2009, and Rajlich's claim it is a [clone](#) of *Rybka 3* ^[41] without any substantiation and evidence, caused further discussions ^[42].

Open Letters

In January 2011, [Fabien Letouzey](#) confirmed that Strelka, the allegedly clone of Rybka, was not a verbatim copy of the source code from Fruit, but a [bitboard](#) re-write of Fruit with some other ideas, and not just an extraction of a couple of ideas ^[43] ^[44] ^[45].

On February 19, 2011 [ICGA](#) president [David Levy](#) broached on [cloning](#) issues in a *ChessVibes* column ^[46].

In March 2011, following computer chess programmers signed an open letter to [David Levy](#), [Jaap van den Herik](#) and the board of the [ICGA](#), to support the claim Rybka 1.0 beta and subsequent versions were allegedly derivatives from [Fabien Letouzey's](#) program [Fruit 2.1](#):

- [Fabien Letouzey](#)
- [Zach Wegner](#)
- [Mark Uniacke](#)
- [Stefan Meyer-Kahlen](#)
- [Ed Schröder](#) ^[47] ^[48]
- [Don Dailey](#)
- [Christophe Théron](#)
- [Richard Pijl](#)
- [Amir Ban](#)
- [Anthony Cozzie](#)
- [Tord Romstad](#)
- [Ralf Schäfer](#)
- [Gerd Isenberg](#)
- [Johannes Zwanzger](#)
- [Shay Bushinsky](#)
- [Volker Böhm](#)

The letter was published in the private [ICGA Investigations Wiki](#) ^[49] and elsewhere ^[50] ^[51] ^[52]. The German sites [Heise online](#) ^[53] and [Spiegel Online](#) broached the issue ^[54].

Pre-Beta Rybka and Crafty

In February and March 2011, evidence was found by [Zach Wegner](#) and [Mark Watkins](#) that pre-Beta Rybka, which played the [CCT6](#) in January 2004, and competed in tournaments of [Engine Rating Lists](#) such as [ChessWar](#) ^[55] ^[56] and *Le Fou numérique* ^[57], contain a substantial amount of [Crafty](#) code ^[58], confirmed by [Robert Hyatt](#) ^[59] ^[60]. Beside other evidence there are the known bugs in the old Crafty code (if ms == 99999) ^[61] that caused [El Chinito](#) by primary author [Eugenio Castillo Jiménez](#) to be exposed as a clone ^[62] ^[63].

Disqualification

In June 2011, the [ICGA](#) has disqualified and banned Rybka and its programmer [Vasik Rajlich](#) from previous and future World Computer Chess Championships. The ICGA accuses Rajlich of plagiarizing two other programs, [Crafty](#) and [Fruit](#), and demands that he returns the trophies and prize money of the World Computer Chess Championships in [2007](#), [2008](#), [2009](#) and [2010](#) ^[64].

In August 2011, the board of the Dutch Computer Chess Federation ([CSVN](#)) declared the most serious doubts as to the rightfulness of ICGA's decision. Therefore, they have chosen not to abide by their sanctions against Rybka ^[65], see [ICGA Investigations](#)

See also

- [Claims that Strelka is Rybka](#)
- [Crafty](#)
- [Fruit](#)
- [ICGA Investigations](#)
- [Ippolit](#)
- [Rybka Controversy](#)
- [Strelka](#)

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- [Jeroen Noomen](#), [Jos Uiterwijk](#), [Jaap van den Herik](#) (2007). *The 15th World Computer Chess Championship*. [ICGA Journal, Vol. 30, No. 2](#) » [WCCC 2007](#)
- [Matej Guid](#), [Ivan Bratko](#) (2007). *Factors affecting diminishing returns for searching deeper*. [CGW 2007](#) » [Crafty](#), [Rybka](#), [Shredder](#), [Diminishing Returns](#)
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- [Søren Riis](#) (2012). *A Gross Miscarriage of Justice in Computer Chess*. [pdf](#) hosted by [ChessBase](#)
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- [Don Dailey](#), [Adam Hair](#), [Mark Watkins](#) (2014). *Move Similarity Analysis in Chess Programs*. [Entertainment Computing](#), Vol. 5, No. 3, [preprint as pdf](#) ^[70]
- [David Levy](#) (2014). *The RYBKA Case – Progress and Verdict*. [ICGA Journal](#), Vol. 37, No. 4 » [Rybka Controversy](#)

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- [Re: CCT6: Rybka /Bodo ???](#) by [Vasik Rajlich](#), [CCC](#), January 27, 2004

2005

- [Rybka 1.0 beta release - need testers](#) by [Vasik Rajlich](#), [CCC](#), November 30, 2005
- [Rybka 1.0 Announcement](#) by [Vasik Rajlich](#), [CCC](#), December 05, 2005
- [Is Rybbka a fruit clone?](#) by [Ziad Haddad](#), [CCC](#), December 06, 2005
- [Rybka - How much Fruit is inside?](#) by [Daniel Mehrmann](#), [CCC](#), December 11, 2005
- [Rybka test position](#) by [K. Burcham](#), [CCC](#), December 11, 2005 » [Ktulu](#)
- [Rybka uses PVS and not MTD\(f\). Its no Fruit-Clone](#) by [Chrilly Donninger](#), [CCC](#), December 12, 2005
- [The Code for the Rybka-Mate-Bug](#) by [Chrilly Donninger](#), [CCC](#), December 13, 2005
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- [Spike-Rybka](#) by [Vasik Rajlich](#), [CCC](#), December 28, 2005 » [IPCCC 2005 b](#)
- [The man behind Rybka and his thoughts as posted here on CCC](#) by [Mike Byrne](#), [CCC](#), December 31, 2005

2006

- [Rybka and Fruit on Chessbase](#) by [Walter Faxon](#), [CCC](#), January 14, 2006 » [Fruit](#), [ChessBase](#)
- [The superior Rybka chess knowledge](#) by [Chrilly Donninger](#), [CCC](#), January 18, 2006
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2007

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- [Rybka @ Leiden ICT7](#) by [Vasik Rajlich](#), [Rybka Forum](#), May 20, 2007
- [Open Letter and \\$100,000 Challenge to FIDE](#) by [Vasik Rajlich](#), [Rybka Forum](#), May 31, 2007
- [How secure is the source code of Rybka?](#) by [SR](#), [Rybka Forum](#), June 05, 2007
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- [Strelka = Rybka 1.0](#) by [DarkAvenger](#), [Rybka Forum](#), July 07, 2007 » [Strelka](#)
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- [Longer comments by V. Rajlich](#) by [Marc Lacrosse](#), [CCC](#), July 10, 2007
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- [Fruit, Rybka, Strelka final conclusion! \(I hope\)](#) by [Michael Sherwin](#), [CCC](#), July 13, 2007
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- [Rybka 3 -- a hundred elo!](#) by [Larry Kaufman](#), [Rybka Forum](#), July 08, 2008
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- [question to vas on similarity of rybka 1.0 to fruit](#) by [duncan](#), [Rybka Forum](#), August 25, 2008
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- [Rybka @ 16th WCCC in Beijing](#) by [Vasik Rajlich](#), [Rybka Forum](#), October 04, 2008
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- [Rybka 1.0 source code](#) by [Ed Schröder](#), [CCC](#), January 31, 2012 ^[75]

External Links

Rybka

- [Rybka from Wikipedia](#)
- [Rybka \(disambiguation\) from Wikipedia](#)
- [Rybka's ICGA Tournaments](#)
- [Welcome to RybkaChess.com!](#)
- [Rybka Chess Community Forum](#)
- [Rybka Cluster - for the elite chess player](#)
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- [A Gross Miscarriage of Justice in Computer Chess \(part two\)](#) by [Søren Riis](#), [ChessBase News](#), January 03, 2012 ^[80]
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20. [^](#) [My recent correspondence with Vasik Rajlich](#) by [Sven Schüle](#), [CCC](#), June 13, 2010
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- 65. [^ Rybka and the ICGA](#), [CSVN Computerschaak](#)
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What links here?

Page	Date Edited
14th Computer Olympiad	Jul 23, 2017
ACCA 2007	Jul 14, 2014
ACCA 2008	Jul 14, 2014
ACCA 2009	Jul 14, 2014
ACCA Americas' Computer Chess Championship	Nov 20, 2014
ACCA World Computer Rapid Chess Championship	Jun 27, 2017
Albert Silver	Feb 25, 2018
Alessandro Scotti	Feb 27, 2014
Alexander Schmidt	May 17, 2016
Almond	Feb 14, 2012

Page	Date Edited
Alon Greenfeld	Feb 24, 2017
Anthony Cozzie	Nov 5, 2016
Aquarium	Dec 4, 2016
Argonaut	Apr 15, 2013
Arno Nickel	Sep 25, 2015
Bodo	Oct 6, 2016
Bright	Oct 25, 2016
BugChess FR	Feb 24, 2013
CCT Tournaments	Jan 29, 2017
CCT10	May 5, 2013
CCT11	Feb 17, 2015
CCT6	May 29, 2014
CCT8	Apr 6, 2013
CCT9	Aug 25, 2013
CGW 2007	Jan 2, 2017
Chaturanga IT	Jan 7, 2016
Checkmate	Apr 13, 2018
Chess	Jan 21, 2018
Chess Assistant	Jul 16, 2017
Chess960CWC 2007	Aug 21, 2012
Chess960CWC 2008	Aug 21, 2012
Chess960CWC 2009	Aug 21, 2012
ChessBase	Nov 25, 2017
ChessOK	Jul 30, 2013
Chiron	Sep 24, 2017
Chris Whittington	Dec 9, 2017
Claims of Rybka Originality	May 17, 2016
Claims that Strelka is Rybka	Jun 6, 2012
Clones	Jan 16, 2017
Computer Chess Forums	Nov 26, 2017
Computer Olympiad	Mar 6, 2018
Crafty	Jan 28, 2018
Critic	Jan 25, 2014
Daniel Mehrmann	Dec 13, 2015
Dann Corbit	Dec 9, 2017
David Levy	Jan 3, 2017
Deep Fritz versus Deep Junior 2007	Oct 15, 2016
Deep Sjeng	Jan 7, 2016
Depth	Feb 25, 2018
DOCCC 2006	Aug 27, 2016
DOCCC 2007	Aug 15, 2015
DOCCC 2008	Aug 15, 2015
DOCCC 2009	Aug 15, 2015
DOCCC 2010	Aug 15, 2015
DOCCC 2011	Dec 1, 2013

Page	Date Edited
Dutch Open Computer Chess Championship	Sep 25, 2014
Ed Schroder	Feb 26, 2018
Eduard Nemeth	Nov 22, 2014
Eigenmann Endgame Test	Jun 1, 2017
Engines	Mar 10, 2018
Eric van Reem	Sep 10, 2014
Ernest Bonnem	Jan 26, 2014
Fabien Rybka Letter	Feb 23, 2014
Fortress	Feb 1, 2018
Fritz	Feb 26, 2018
Fritz Reul	Nov 28, 2016
Fruit	Sep 27, 2016
GullChess	Jun 27, 2017
Hans Secelle	Nov 2, 2012
Hans van der Zijden	Dec 13, 2016
Harry Schnapp	Apr 11, 2013
Helmut Weigel	Dec 2, 2017
Hiarcs	Feb 25, 2018
Houdini	Apr 14, 2018
ICGA Journal	Dec 21, 2017
ICT 2006	Oct 14, 2015
ICT 2007	Sep 14, 2015
ICT 2008	Sep 14, 2015
ICT 2010	Sep 14, 2015
ICT 2012	Jun 11, 2012
Ikarus	Jul 5, 2016
International CSVN Tournament	Jan 8, 2018
IPCCC	Jan 20, 2017
IPCCC 2005 b	Apr 15, 2013
IPCCC 2006	Dec 8, 2012
IPCCC 2007	May 30, 2016
Ippolit	May 17, 2016
Ivan Bratko	Aug 16, 2017
Iweta Rajlich	Sep 23, 2017
Jeroen Noomen	Jul 21, 2017
Joel Veness	Dec 8, 2017
John L. Jerz	Jul 15, 2013
Jury Osipov	Jul 29, 2013
Kai Laskos	Jan 21, 2018
Karlo Bala Jr.	Feb 19, 2017
Knowledge	Jul 22, 2017
Komodo	Mar 6, 2018
Kramnik versus Deep Fritz 2006	Nov 28, 2017
Krzysztof Siewicz	Aug 9, 2014
Ktulu	May 16, 2015

Page	Date Edited
Lance Perkins	Nov 10, 2011
Larry Kaufman	Jan 28, 2018
LearningLemming	Jun 29, 2013
Livingston Chess960 Computer World Championship	Aug 7, 2012
Loop (Program)	Mar 14, 2017
Marco Costalba	Feb 28, 2018
Mark Watkins	Dec 6, 2017
Martin Thoresen	Apr 29, 2015
Match Statistics	Mar 31, 2018
Matej Guid	Jan 6, 2018
Material Tables	May 5, 2017
Michael Sherwin	Dec 18, 2017
Milos Stanisavljevic	May 23, 2016
Monte-Carlo Tree Search	Apr 26, 2018
Naum	Nov 23, 2017
Nelson Hernandez	Nov 23, 2017
Node	Jul 20, 2015
Nodes per second	Feb 28, 2018
Norman Schmidt	Oct 12, 2017
Olivier Deville	Sep 29, 2016
Parallel Search	Dec 30, 2017
Piece-Square Tables	Mar 31, 2018
Playing Strength	Mar 31, 2018
Quantifying Evaluation features	Jun 6, 2012
Revelation	Jul 15, 2016
Revelation II	Jan 8, 2018
Robert W. Howard	Jul 1, 2014
Rolf Tüschen	Jun 6, 2012
Rondo	Jan 7, 2016
Rook on Open File	Apr 24, 2017
Ross Boyd	Mar 12, 2018
Ryan Benitez	May 16, 2015
Rybka	Mar 27, 2017
Rybka Controversy	Jan 18, 2018
Scaramanga	Mar 6, 2011
Score	Apr 14, 2018
Sergei Markoff	Mar 12, 2018
Shredder	Jan 21, 2018
Silent but deadly	Jun 17, 2015
Singular Extensions	Jan 9, 2018
Spark	Oct 19, 2017
SpiderChess	Oct 4, 2017
Spike	Jan 7, 2016
Stephan Oliver Platz	Dec 14, 2017

Page	Date Edited
Steve Lopez	Dec 4, 2016
Stockfish	Apr 7, 2018
Strelka	May 17, 2016
Sunfish	Jan 11, 2018
Sven Schüle	Sep 20, 2016
Søren Riis	Jan 10, 2017
Tarrasch	Apr 15, 2017
TCEC	Apr 18, 2018
TCEC Season 10	Jan 3, 2018
TCEC Season 5	Jun 2, 2014
TCEC Season 6	Dec 2, 2014
TCEC Season 9	Nov 6, 2017
Test-Positions	Feb 25, 2018
Thinker	Jan 7, 2016
TRACE	Feb 14, 2013
Vadim Demichev	Jul 26, 2013
Vasik Rajlich	Sep 23, 2017
Victor Zakharov	May 20, 2016
WCCC 2006	Jan 28, 2018
WCCC 2007	Jan 2, 2017
WCCC 2008	Jan 3, 2017
WCCC 2009	Apr 2, 2017
WCCC 2010	Jan 6, 2017
WCRCC 2007	Nov 21, 2016
WCRCC 2008	Nov 21, 2016
WCRCC 2009	Jul 14, 2014
WCRCC 2010	Jul 14, 2014
Wieland Belka	Jul 13, 2013
Windows	Nov 2, 2017
World Computer Chess Championship	Mar 6, 2018
Zach Wegner	Jan 7, 2016
Zappa	Oct 24, 2017
Zappa versus Rybka 2007	Nov 25, 2017
Đorđe Vidanović	Feb 20, 2017

[Up one Level](#)