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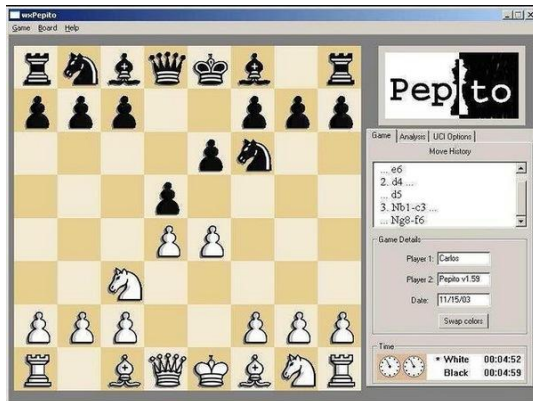
[Home](#) \* [Engines](#) \* **Pepito**

**Pepito,**

a [Chess Engine Communication Protocol](#) and [UCI](#) compliant [open source chess engine](#) written by [Carlos del Cacho](#) in [C](#), first released in September 2000 <sup>[1] [2]</sup>. The recent version comes with an own [GUI](#) written in [C++](#) using [wxWidgets](#) and can create [opening book databases](#) from a pile of thousands of chess games, applying advanced data structures such as [B-trees](#) and [skip lists](#) <sup>[3]</sup>. As [bitboard](#) engine, Pepito applies

[rotated bitboards](#) with 1/2 MiB lookup tables, indexed by the full [8-bit line occupancy](#), to determine [sliding piece attacks](#). Pepito played the [CCT4](#), [CCT5](#) and [CCT6](#) tournaments.

## Screenshot



Pepito [GUI](#) <sup>[4]</sup>

## Features

- [NegaScout](#) search algorithm
- [Extensions](#) to avoid [horizon effect](#) (i.e. [check](#), [recapture](#), [pawn push](#), ...)
- [Transposition tables](#), [pawn hash tables](#) and [evaluation cache](#)
- [AEL-pruning](#) à la [Heinz](#)
- [Static exchange evaluator](#), used for [move ordering](#) and also to cull losing [captures](#) in the [quiescence search](#)
- [Lazy evaluation](#)
- [Nalimov Tablebases](#)
- [Pondering](#)
- [Book learning](#)

## Acknowledgments

Pepito wouldn't have come to life without the help from these guys, acknowledged by Carlos del Cacho in thanx.txt, shipped with the source files <sup>[5]</sup>:

- [Bob Hyatt](#) ([Crafty](#))
- [Dušan Dobeš](#) ([Phalanx](#))
- [Dan Homan](#) ([EXchess](#))

- [Adrien Regimbald](#) ([Faile](#))
- [Jon Dart](#) ([Arasan](#))
- [Andrew Tridgell](#) & [Jonathan Baxter](#) ([KnightCap](#))
- [Stuart Cracraft](#) & [Chua Kong Sian](#) ([GNU Chess 5](#))
- [John Stanback](#) ([GNU Chess 4](#))

... further ...

- [Eugene Nalimov](#) for his [Endgame Tablebases](#)

... and

- [Jonathan Schaeffer](#)
- [Alexander Reinefeld](#)
- [Ernst A. Heinz](#)
- [Aske Plaat](#)

for their papers, and

- [Bruce Moreland](#)
- [Dieter Bürssner](#)
- [Brian Richardson](#)
- [Tony Werten](#)

and many others at [CCC](#) for their help...

## Selected Games

[CCT4](#), round 2, [Pepito](#) - [Yace](#) <sup>[6]</sup>

```
[Event "CCT4"]
[Site "Internet Chess Club"]
[Date "2002.01.19"]
[Round "2"]
[White "Pepito"]
[Black "Yace"]
[Result "1/2-1/2"]
```

1.e4 c5 2.Nf3 d6 3.d4 cxd4 4.Nxd4 Nf6 5.Nc3 a6 6.Be3 e6 7.f3 b5 8.g4 h

6  
9.Qd2 Nbd7 10.O-O-  
O Bb7 11.h4 b4 12.Na4 Qa5 13.b3 Nc5 14.a3 Rc8 15.Qxb4  
Qc7 16.Nxc5 dxc5 17.Qa4+ Nd7 18.Ne2 c4 19.b4 Bc6 20.Qxa6 Ra8 21.Qxc4 R  
xa3  
22.Bf4 Qb7 23.c3 Bb5 24.Qd4 Ra2 25.Kb1 Rxe2 26.Rh3 e5 27.Bxe5 Bc5 28.Q  
d5  
Bc6 29.Qc4 Bb5 30.Qd5 Bc6 31.Qc4 Bb5 32.Qd5 1/2-1/2

## Clones

The program [Siboney](#) by [Francisco Rivera](#) published in 2002 was based on Pepito with a changed [evaluation](#) <sup>[7]</sup> <sup>[8]</sup> <sup>[9]</sup>. In 2003, [Deep<9>](#) by pretended author [Denis Grafen](#) was proven a blatant [clone](#) of Pepito <sup>[10]</sup> <sup>[11]</sup> <sup>[12]</sup>.

## See also

- [Comics](#)
- [Given Name](#)

## Forum Posts

### 2000

- [New winboard engine released!](#) by [Carlos del Cacho](#), [CCC](#), September 18, 2000
- [Pepito 1.01 uploaded! Bugfix + adjustable hash size](#) by [Carlos del Cacho](#), [CCC](#), September 20, 2000
- [About Pepito and Amyan](#) by [José Carlos](#), [CCC](#), September 24, 2000 » [Amyan](#)
- [Pepito 1.03 available \(Move now support & José C. bug fixed\)](#) by [Carlos del Cacho](#), [CCC](#), September 25, 2000
- [Pepito v1.10 available w source](#) by [Carlos del Cacho](#), [CCC](#), December 22, 2000

### 2001

- [Pepito 1.40 MMX LCT2 test](#) by [Gabor Szots](#), [Winboard Forum](#), October 02, 2001 » [LCT II](#)
- [Pepito 1.42 MMX build](#) by [Dann Corbit](#), [Winboard Forum](#), October 04, 2001

### 2002

- [The New Pepito...](#) by [Dann Corbit](#), [Winboard Forum](#), June 24, 2002
- [new Pepito version available for download](#) by [Carlos del Cacho](#), [Winboard Forum](#), July 27, 2002

- [Config.dat for Pepito](#) by [Carlos Pesce](#), [Winboard Forum](#), July 30, 2002
- [New format of Config.dat for Pepito \(built from the readme!\)](#) by [Günther Simon](#), [Winboard Forum](#), July 30, 2002
- [Pepito 1.55 \( Read for fixes\)](#) by Nolan Denson, [CCC](#), July 31, 2002
- [Siboney = a Pepito clone ??](#) by [Brice Boissel](#), [Winboard Forum](#), August 06, 2002 [\[13\]](#)
- [Pepito 1.54 and learning](#) by [Igor Korshunov](#), [Winboard Forum](#), November 12, 2002

## 2003

- [Deep<9> Is a Clone based of Pepito? Really?](#) by [Volker Richey](#), [CCC](#), March 13, 2003
- [Deep9, Pepito and Leo's Qualify](#) by [Matthias Gemuh](#), [Winboard Forum](#), March 13, 2003

## 2004 ...

- [Pepito @ CCT6 After thoughts](#) by Nolan Denson, [CCC](#), February 01, 2004
- [Pepito problem](#) by [Tord Romstad](#), [Winboard Forum](#), March 10, 2004
- [Pepito 1.59 Windows 64-bit build available](#) by [Jim Ablett](#), [CCC](#), December 20, 2007

## External Links

### Chess Engine

- [Pepito Chess engine on Behance](#)
- [Pepito... that other xboard chess engine](#) hosted by [Thomas Mayer](#)
- [Pepito](#) from [WBEC Ridderkerk](#)
- [Index of /chess/engines/Norbert's collection/Pepito \(Compilation\)](#) by [Norbert Raimund Leisner](#), hosted by [Kirill Kryukov](#)
- [Pepito 1.59.2 64-bit](#) in [CCRL 40/4](#)
- [Pepito 1.59 32-bit](#) in [CCRL 40/40](#)
- [Pepito 1.59 64-bit](#) in [CCRL 40/40](#)

### Misc

- [Pepito \(disambiguation\) from Wikipedia](#)
- [Pepe \(disambiguation\) from Wikipedia](#)
- [Pepito \(comics\) from Wikipedia](#)

## References

1. [^ New winboard engine released!](#) by [Carlos del Cacho](#), [CCC](#), September 18, 2000
2. [^ Pepito](#) from [WBEC Ridderkerk](#)
3. [^ Pepito Chess engine on Behance](#)
4. [^ Pepito Chess engine on Behance](#)

5. [^ thanx.txt](#)
6. [^ CCT4 - PGN-Download](#) hosted by [Volker Richey](#)
7. [^ Siboney is at the moment not available!](#) by [Frank Quisinsky](#), [Winboard Forum](#), May 24, 2002
8. [^ What is the state of Siboney now?](#) by [Günther Simon](#), [Winboard Forum](#), June 26, 2002
9. [^ Siboney = a Pepito clone ??](#) by [Brice Boissel](#), [Winboard Forum](#), August 06, 2002
10. [^ Re: A Deep question](#) by [Carlos del Cacho](#), [Winboard Forum](#), March 05, 2003
11. [^ The truth about Deep <9>](#) by [Thomas Mayer](#), [CCC](#), March 14, 2003
12. [^ Information](#) by [Denis Grafen](#), [CCC](#), March 15, 2003
13. [^ What is the state of Siboney now?](#) by [Günther Simon](#), [Winboard Forum](#), June 26, 2002

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<a href="#">Amyan</a>	Dec 10, 2013
<a href="#">Carlos del Cacho</a>	Feb 16, 2013
<a href="#">CCT4</a>	Apr 22, 2013
<a href="#">CCT5</a>	Feb 22, 2013
<a href="#">CCT6</a>	May 29, 2014
<a href="#">Deep&lt;9&gt;</a>	Nov 28, 2013
<a href="#">Denis Grafen</a>	Nov 28, 2013
<a href="#">Eigenmann Endgame Test</a>	Jun 1, 2017
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<a href="#">LCT II</a>	Feb 25, 2018
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