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You can't perform that action at this time. You have chosen a chess engine for your Mac. You intend to download it or have already done so. But... you have never used a chess engine downloaded from the Internet before. How to do it ? Will the chess engine work ? What should you pay attention to ?I will answer these and other questions in this How-to.Users of macOS Ventura & newer are invited here.How-To is intended for inexperienced users. Was written in such a way that anyone willing after reading it will be able to run a chess engine downloaded from the web.Millions of Macs are in use around the world. Macs have a reputation for being among the most secure. They are also stable, fast, quiet and energy efficient. Why not to use Macs for computer chess, for analysis and playing chess engines, for training and playing online ? Nothing stands in the way.For Macs, there is a lot of excellent software for all kinds of chess applications.It is worth using the best, strongest, most versatile and interesting chess engines together with good software. And they are available for Mac :!Always download chess engines from safe places on the web with a good and established reputation.For starters, the good news is that getting the Chess Engine ready to run on your Mac is very easy. As you become practiced, it will literally take you seconds :!Koivisto, Lc0, Stockfish, RubiChess, MadChess, Velvet - these are just a few examples of notable and popular chess engines that you can download for free from the Files section and use on your Mac.There is the award-winning, unique and versatile Dragon by Komodo Chess. One of the few commercial chess engines that is worth its price. And it is available for Mac to download from the manufacturer's website.And finally, there is also Berserk - a powerful and free open source chess engine to which I dedicated a separate page on my blog Using the Berserk chess engine as an example, I will show you how to run the chess engine on Mac. The Berserk chess engine and other related files (e.g. logos) are placed in a 7-Zip archive. This is to reduce the volume of downloaded files.Your Mac has a pre-built 7-Zip archive decompression tool. You don't need to install an additional application to support 7-Zip.By default, your web browser (e.g. Safari, Firefox, Chrome) should download Berserk to the Downloads directory on your Mac.After double-clicking on the icon of the downloaded chess engine, the archive will be unpacked and a directory with the same name will appear.When you enter the newly created directory (double-click it), you will see the contents.At this point you should choose the version of the chess engine you intend to use.The chess engine, which has the Apple Silicon in its name, is designed for Macs equipped with the M1, M1 Max, M2, ... CPU (see Wikipedia for details).In this case, it will be: Berserk-10_Mac_Apple_Silicon The chess engine, which has Intel in its name, is designed for Macs equipped with an Intel CPU (see Apple Wiki for details).In this case, it will be: Berserk-10_Mac_Intel To quickly check what CPU your Mac is equipped with, click on the apple icon, which is at the top left of the screen. Now click on About This MacIn the newly displayed window under the Overview tab, you will find the symbol of your CPU (Processor).Macs with Apple Silicon CPUs are in most cases able to use chess engines compiled for Intel-based Macs. If successful, the same engine in the Intel version will be slightly slower than the same engine natively compiled for Apple Silicon CPUs. This is a difference of up to a few % in speed.Macs with Intel CPUs are not able to use the chess engine compiled for Macs with Apple Silicon CPUs.Now, it is time to give the chess engine the rights to run.We will open a program called Terminal.Click the magnifying glass icon, which is in the upper right corner of the screen.The Spotlight search engine window will open. ...type terminal and press the Enter key.Below the window, where the directory with the Berserk chess engine is located, the Terminal program window will open.On macOS (and in other systems, such as Linux, Android and Windows), 99.9% of chess engines have an executable attribute, which allows you to simply run them and use them for your own purposes. Sometimes, in order for a chess engine to run, it must be given the executable attribute. Regardless of whether the engine has this execute attribute or not, it never hurts to give it. It is a very simple and quick action.In the terminal window, typepress the Spacebar and click on the engine icon appropriate for your Mac. While holding down the mouse button, drag the Chess Engine icon to the Terminal field. Then release the mouse button.If your Mac has an Intel processor, then you should select Berserk-10_Mac_Intel.The executable attribute has been given to the chess engine. This is important because macOS, when working with this chess engine, will "know" that it is a program and not, for example, an image or sound file.Now we are going to try the chess engine for the first time. For your Mac, this will mean trying to run a program from outside the App Store.Taking care of security, by default macOS is configured in such a way that in case of just such an attempt, an appropriate prompt will be issued. And this is what we mean, because we will make it so that the Mac always accepts this chess engine.Again, click on the chess engine icon and drag and drop it onto the Terminal program window.The mentioned prompt is displayed. Confirm by clicking on the Cancel button.The chess engine will not be started.Don't worry about it. Everything is fine - this is normal macOS behavior to ensure the security of the system and data on your computer.To authorize the chess engine to run, we will enter the system settings. Click on the apple icon in the upper left corner and then select System Preferences...and in the General tab, click on Allow Anyway.The prompt regarding the launch of the chess engine has disappeared.You can now close the Security & Privacy window. Go back to the Chess engine and Terminal windows.Click, drag and drop the chess engine into the Terminal window.In the newly opened window, click on the Open button.Has the chess engine been started ?Let's check it by typing in the terminal window:It is working! !The chess engine works :!The engine reports its readiness for operation.Now you can close the Terminal window or type:The chess engine has been turned off.Your Mac will no longer want you to run this chess engine, because you have authorized it in your system settings.Here are some examples of using the Berserk chess engine.Berserk 10 & Hiarcs Chess Explorer Pro Berserk 10 & Scid vs. Mac Always download chess engines from safe places on the web with a good and established reputation.I wish you a successful hunt for chess engines :!A chess engine analyzes thousands of outcomes before making an efficient move. Its an intricate software program that blends brute-force calculation, positional evaluation, pattern recognition, and sometimes neural networks to make decisions in a game of chess.The number of possible moves makes chess one of the most complex games! you construct a complete tree of all possible moves in a chessboard, you will get a total of 10120 moves. That's an extremely large number.To put this into perspective, there have been only 1026 nanoseconds since the Big Bang and about 1075atoms in the entire universe. These numbers are dwarfed by the number of possible moves in chess, making it one of the most complex board games.Chess Engines Outperform human decision-makingSince the hardware and software programming techniques are improving year by year, chess engines are becoming more intelligent. Modern engines are more selective and have a better positional understanding.Every year, engines like Stockfish and Komodo further push the boundaries of chess, advancing opening theory, tactical analysis, and endgame play. Innovations like neural networks and sophisticated evaluation functions have become commonplace, allowing chess engines to outperform human decision-making.Selection CriteriaThere are literally hundreds of rating lists that measure the relative strength of chess engines based on how many moves they make per minute. Not only do these lists rank chess engines from superior to inferior, but they also furnish margin of error values for the assigned ratings.Among these rating lists, the most famous are CCRL (Computer Chess Rating Lists) and CEGT (Chess Engines Grand Tournament). With both of these ratings in consideration, we introduce the most advanced Chess Engines, exemplifying the supremacy of machines over human players.Note: Since CCRL and CEGT rating lists change continuously, the ranking can differ from time to time.32. Hannibal CCRL Rating: 3146 CEGT Rating: 3083Hannibal is a Universal Chess Interface (UCI) engine that builds upon concepts from prior engines, namely (1999, 2003), the World Chess Software Championship (2010), and the World Computer Speed Chess Championship (5 times).Deep Shredder is the multiprocessor version of Shredder. It comes with a graphical user interface developed by Millennium Chess System, which supports Universal Chess Interface and is compatible with other UCI engines available for Mac OS, Windows, and Linux.22. BoozeWCCC 2011, Booze vs. Alex Morozov CCRL Rating: 3531 CEGT Rating: 3413Booze is an open-source chess engine written in Delphi 6. It determines sliding piece attacks with rotated bitboards. It is packed with lazy SMP and a fully redesigned evaluation function.The engine applies PVS with all basic search enhancements like late move reductions, null move pruning, and internal iterative deepening. The latest version supports multiprocessor architecture and has several assembly variants for 32 and 64-bit.21. Andscacs CCRL Rating: 3313 CEGT Rating: 3200First published in 2014,Andscacs soon became one of the worlds best chess engines. It uses a magic bitboard to speed up the attack calculations. It applies a principal variation search with a transposition table inside an iterative framework.Andscacs employs static evaluation and a threaded parallel search. Additionally, it attempts a hash move during a quiescence search.In order to make the engine more powerful and efficient (or minimize the standard deviation of static evaluation), developers optimized 200 evaluation features with 750,000 positions.20. Caissa CCRL Rating: 3613 CEGT Rating: 3573Caissa is a relatively new chess engine developed from scratch in C++. It is optimized for conventional chess, Fischer Random Chess (FRC), and Double Fischer Random Chess (DFRC).The engine follows a UCI protocol, which makes it compatible with various chess GUIs. It employs a neural network for evaluating positions. This neural network is trained using self-play games generated by Cassas custom trainer.It uses the Negamax search algorithm along with alpha-beta pruning a common and efficient technique to explore and evaluate positions during the search.Moreover, Caissa supports Szyzgy and Gaviota endgame databases, which help in endgame play and ensure optimal decisions in positions with fewer pieces.19. Ethereal CCRL Rating: 3601 CEGT Rating: 3534Ethereal is greatly influenced by numerous chess engine projects like Stockfish, Crafty, MadChess, TSCF, and Fruit. Its a UCI-compliant chess engine based on the alpha-beta framework.The commercial version of Ethereal incorporates two Neural Network Universal Evaluations (NNUEs) for assessment, one designed for standard chess and another specifically trained for Chess960.The NNUE implementation, based on Stockfish NNUE, illustrates how developers can significantly boost their engines playing strength with minimal effort.18. Kovisto CCRL Rating: 3466 CEGT Rating: 3519Written in C++, Kovisto is a strong chess engine that features lazy SMP, iterative deepening, and principal variation search. Its important to note that Kovisto is not a standalone program and requires a UCI-compatible graphical user interface to function.The bitboard engine offers automated evaluation tuning by logistic regression, either using stochastic gradient descent or an adaptive gradient algorithm. You can find binaries for Windows and Linux on GitHub.17. Fizzo CCRL Rating: 3320 CEGT Rating: 3220Fizzo is a Chess Engine Communication Protocol (CECP) and the Universal Chess Interface (UCI) protocol.This allows users to integrate it with their preferred chess software, such as Cutchess, Arena, Banksia, and Winboard/Board.The latest version of the engine has detached its dependency on the Stockfish NNUE (Noisy Neural Network Updates Estimation) and implemented its own NNUE system. This adoption of NNUE allows Minc to easily change the neural network architecture and apply engine-independent PyTorch training code.The latest engine introduced support for a new NNUE variant called Seer-like NNUE Narcotized Nightshift. This new NNUE variant appears to have significantly improved Minc's playing strength, with a reported gain of nearly 90 Elo points compared to the previous NNUE version called Nefarious Nucleus.12. Seer CCRL Rating: 3585 CEGT Rating: 3495Seer is a strong UCI-compliant chess engine that stands out for its reliance on a neural network-based evaluation system. It employs a neural network for position evaluation, with a specific focus on estimating Win-Draw-Loss (WDL) probabilities.It features a custom implementation of Noisy Neural Network Updates Estimation (NNUE). This custom NNUE system uses 32-bit float weights and has both training code (for learning from data) and inference code (for evaluation during chess games).The engine utilizes Principal Variation Search (PVS) within an iterative deepening framework and employs a lockless shared transposition table based on Zobrist hashing to store previously evaluated positions. It also incorporates history pruning, history extensions, static null move pruning, futility pruning, and late move reductions.These techniques help to improve the efficiency of the search and evaluation process.More recently, Seer has extended its support to ARM NEON through sse2neon, making it compatible with a broader range of devices, including Android devices.11. Chess System Tal CCRL Rating: 3546 CEGT Rating: 3484Chess System Tal (CSTal) is a commercial chess program developed in the mid-1990s as the successor to the Complete Chess System. Over the years, it has evolved into a unique and entertaining chess engine with specific characteristics and playing styles.It is famous for its distinctive playing style, which emphasizes strong human-like play with a particular focus on aggressive king attacks and speculative sacrifices.In 2023, developers released Chess System Tal 2.00, marking a significant development in the engines evolution. This version is UCI-compliant, which makes it more accessible to various chess graphical user interfaces.Chess System Tal 2.00 comes in two variations:One version is designed for Elo strength, meaning it is engineered to perform at specific rating levels, offering a competitive challenge to players of varying skill levels.The other version is tailored to emulate the legendary style of Mikhail Tal. This version is focused on replicating the daring and attacking style for which Tal was renowned.The engine is made available to the public in the form of a public executable, which means users can run the program, but the underlying source code is not publicly disclosed. This approach allows users to enjoy the chess engines features while preserving the proprietary nature of the source code.10. RoFChade CCRL Rating: 3573 CEGT Rating: 3496RoFChade is a UCI-compliant chess engine written in C++. It has undergone several significant developments to enhance its playing strength.Initially, RoFChade used a tapered evaluation system that distinguished between middlegame and endgame material. It also utilized asymmetrical piece-square tables and featured a sophisticated parallel search algorithm.A notable evolution in the engine is its adoption of a neural network-based evaluation system. Its current network architecture is called HALFCA and plays a central role in evaluating positions and guiding RoFChades move choices.The network has been trained with a substantial dataset of positions, including approximately 2.8 billion generated by RoFChade. Among these positions, around 600 million are specific to Fischer Random Chess (FRC).The implementation of this network is inspired by CFish, and its training base is linked to Stockfish. This indicates that RoFChade benefits from the experience and techniques used by Stockfish in training neural networks.9. Berserk CCRL Rating: 3617 CEGT Rating: 3574Berserk is a UCI-compliant open-source chess engine written in the C programming language. It supports two board representations: Bitboards and Magic Bitboards.The latest version brings significant improvements in its search algorithms, time management, and evaluation capabilities. It has its own network architecture, which features NNUE evaluation, reverse futility pruning, delta pruning, quiescence search, and singular extensions.8. Slow Chess CCRL Rating: 3457 CEGT Rating: 3528Slow Chess is a chess engine written in C++ and inline assembly that adheres to WinBoard and UCI standards. Unlike other chess engines, it has its own graphical user interface.It includes an Analyze mode, allowing it to recommend the best move for any position and generate multi-variation moves. Players benefit from features like text transcript copy-pasting, position setup, move redo options, time-limit configuration, and the ability to adjust the difficulty level by specifying the number of ply or nodes.7. RubiChess CCRL Rating: 3603 CEGT Rating: 3554RubiChess is an open-source chess engine distributed under the GNU General Public License (GPL). It has undergone significant development and improvements over the years, making it a competitive and capable chess playing program.It initially used rotated bitboards and subsequently implemented magic bitboards to determine sliding piece attacks. This transition to bitboards likely contributed to a significant performance boost, as magic bitboards are known to be approximately 24% faster in determining sliding piece attacks compared to other methods.It later introduced a neural network-based evaluation system to further enhance its playing strength.RubiChess is recognized in various chess rankings and participates in many chess tournaments, such as the Top Chess Engine Championship and the World Computer Chess Championship (WCCC).Dragon is referred to as Komodo Dragon. However, in events like the Chess.com Computer Chess Championship (CCC), its simply known as Dragon.To date, Komodo has secured victory three times in the Top Chess Engine Championship.Aside from Stockfish and Lc0, which chess engine have you used? Chessify (@ChessifyMe) October 3, 2023 2. Torch CCRL Rating: 3635 CEGT Rating: 3620Torch is a proprietary chess engine developed by Chess.com to enhance their online platforms analytical capabilities. It employs a combination of traditional search algorithms and advanced neural network evaluations, utilizing frameworks like Pytorch-NNUE for efficient computation.Since October 2023, Torch has been available on Chess.coms analysis page, providing users with enhanced game analysis options. The developers have emphasized that Torchs source code is entirely original, created from the ground up without incorporating code from any other engines.1. Stockfish CCRL Rating: 3643 CEGT Rating: 3623Stockfish, an open-source UCI-compliant chess engine, has consistently claimed the top position in the majority of chess engine rating lists.Written in C++, this engine boasts the capacity to leverage 1024 CPU threads on multiprocessor systems, and its transposition table can reach a maximum size of 32 terabytes.Stockfish employs a sophisticated algebraic search method and utilizes bitboards. One of Stockfishs standout features is its remarkable search depth (achieved through aggressive pruning and late move reductions).Stockfish 16 is here. Improved playing strength, and updated neural net architecture, improved table base win scores, and more: Stockfish Chess (@stockfishchess) June 30, 2023 It has also been popular on various platforms. On desktop computers, for example, it serves as the default chess engine included with the Internet Chess Club interface programs like Dasher and Blitzn. On mobile devices, it is integrated with apps like Droidfish and SmallFish.Since 2020, Stockfish has secured victory in all major events within the Chess.com Computer Chess Championship (CCC) and the Top Chess Engine Championship (TCEC).Frequently Asked QuestionsWhen was chess invented?The early form of chess, called chaturanga, originated in India in the 7th century CE. From there, it spread to Persia and southern Europe. The game later evolved roughly into its current form by 1500 CE.Who wrote the first chess-playing program for computers?In 1948, Alan Turing and David Champemowne developed the first chess program named Turchamp. It could play an entire chess game against a human player by computing all moves and all potential opponents moves in response. However, its algorithm was too complicated to be executed by the early machines of the time.In 1957, Alex Bernstein wrote a chess program for the IBM 704. It was the first full-fledged chess program to be run on a computer. The program did a 4-ply search in 8 minutes.Whats the difference between chess engines and chess software?While a chess engine is the computational brain that evaluates the moves and plays the game, chess software compasses the engine along with a graphical user interface and additional functions to make the game more accessible and enjoyable. Chess EngineChess SoftwareFocuses on calculating moves and evaluating positionsComprehensive package that includes engines and offer additional featuresTypically do not have a user-friendly interfaceCombines with GUI, allowing users to interact with the engine and access various chess functionsPrimarily focused on calculations and analysisCombines engines with user interfaces and database managementToolsMay lack training and learning featuresOften includes training modules and tutorials to help players improve their skillsWhat are the names of open-source chess engines?There are many open source chess engines that benefit from contributions from a global community of developers and chess enthusiasts. The most popular ones areStockfishKomodoLeela Chess ZeroFireCraftyXiphosFruitSjengPalansArasanaAre chess computers unbeatable?In 1996, Deep Blue became the first computer to beat a human in a formal chess game. This specially designed IBM supercomputer beat the Russian chess grandmaster Garry Kasparov in the first game of a six-game match.However, over two decades have passed since that momentous event. Present-day computers have grown so immensely powerful that they have essentially become invincible.Even a high-end general-purpose computer (running on a well-optimized algorithm) can analyze millions of possible moves and compare them against each other within seconds. No human mind can compete with such analytical powers.What is AlphaZero?Developed by AI research company DeepMind, AlphaZero is a computer program designed to master the games of shogi, go, and chess. It uses neural networks to evaluate a specific number of positions, which eliminates the need to look over millions of positions per second (like other conventional chess engines do).More specifically, AlphaZero analyzes 80,000 positions per second in chess compared to 70 million for Stockfish. In 2017, AlphaZero defeated the then worlds strongest chess engine, Stockfish, in a one-sided 100-game match. The results were published in Science Journal.Although AlphaZero isnt available on any public platform, it has inspired many developers to create open-source network chess projects. AllieStein and Leela Chess Zero, for example, try to mimic AlphaZeros learning method.Red More Mac / MacBook Air The computer was set to play at 256 seconds per move. The original program was written by Gian Carlo Pascutto. Before macOS Big Sur update, the original program (written by Gian Carlo Pascutto) was not as strong as it is now. The Apple version of Sjeng is a lot stronger than the original version (MacOS X version by Gian Carlo Pascutto). On the easiest level, the bot is playing at an elo of at least 2000+. On the higher settings, the computer is playing at its highest difficulty which is 3000 elo. The Mac Chess app is only 200 elo points weaker than Chess.com's Maximum Engine. The Komodo engine on Chess.com can achieve a staggering rating of 3200 elo at its highest setting. MacBook Pro 15, macOS 11.0 Posted on Jun 21, 2024 9:50 PM Reply Posted on Jun 21, 2024 9:54 PM I have heard that the macOS Chess is beatable on the previous versions such as macOS Catalina and macOS Mojave. However, there was an issue with the Chess application that made the computer unbeatable no matter what the difficulty is set to. Page content loaded Jun 21, 2024 9:54 PM in response to toffreddy2022 I have heard that the macOS Chess is beatable on the previous versions such as macOS Catalina and macOS Mojave. However, there was an issue with the Chess application that made the computer unbeatable no matter what the difficulty is set to. This thread has been closed by the system or the community team. You may vote for any posts you find helpful, or search the Community for additional answers. The Mac Chess app plays very strong and never loses material in multiple games that I've played. Unlike the iPad version, you can't even play against it. Ugh. A minimalist UI isn't a problem in and of itself, but even the functionality that's here is super awkward. It doesn't even show you captured pieces. I mean, could you have done even less to make this worthwhile? Probably, but chess.I can download the engine and a number of other front-ends, but I was hoping for a one click install for a program that did the trick. This doesn't do any tricks except calculate well. The built-in chess game on Mac computers does not have an established Elo rating, as it is software designed primarily for casual players rather than tournament-level competition. However, based on analysis of game play at multiple difficulty settings, I can provide estimates of its playing strength.At the highest "Expert" level, the Mac chess engine likely operates in the neighborhood of 1600-1700 Elo strength. While certainly much weaker than modern chess engines with ratings over 3000, it can still provide amateur players with a challenging game.Notable Computer Chess Victories Over HumansBefore analyzing the Mac chess engine specifically, it is worth highlighting some notable moments in humans vs computer matches to understand the large rating gap that exists:In 1997, IBMs Deep Blue made history by defeating world champion Garry Kasparov in a 6 game match, demonstrating AIs superiority for the first time under classical time controls.In 2005, Hydra crushed world no. 5 Michael Adams by a dominating score of 5.5 to just 0.5 points over their 7 game bouts. Perhaps most shockingly, reigning world champion Vladimir Kramnik was trounced by computer program Deep Fritz in a 2006 8 game match with a final tally of 4 wins for Fritz and just 2 for Kramnik.As the above matches illustrate, even the chess elite stand little chance against the calculating perfection of computers. Today, human vs computer matches no longer occur, as the hardware and software has essentially "solved" chess.Lopsided VictoriesThe magnitude of the victories also demonstrate how sizable the rating gap between top engines and humans has become:MatchWinnerScoreDeep Blue vs KasparovDeep Blue (+200 Elo)3.52Hydra vs AdamsHydra (+1500 Elo)5.50Deep Fritz vs KramnikDeep Fritz (+800 Elo)42This pattern shows that an approximate 200-300 Elo advantage is typically enough for a computer to establish decisive dominance over even elite humans.Estimated Strength of Mac Chess LevelsSo while not at the championship caliber of Deep Blue and other dedicated chess engines, how does the built-in Mac chess program fare? Based on analyzing game play, I would make the following estimates for Macs chess strength at each level.Difficulty LevelApprox. Elo Rating% Likelihood to BeatNovice80095%Beginner100085%Intermediate120065%Advanced140035%Expert1600+15%Here you can see that even amateur club players around a 1600 rating would struggle to consistently beat Macs highest level. However, victory is certainly possible under tournament time controls.The key is avoiding major blunders while seeking gradual advantages in position. As with many computer opponents, attacking chances are best generated by accumulating small edges rather than an all-out assault.Hardware & Software AdvancementsWhat accounts for engines enormous rating superiority over humans? Two key factors:Raw calculating ability Modern programs assess millions of future positions per second with precision far exceeding human capabilitiesChess knowledge Vast opening books, endgame databases with perfect play for all positions with 6 or fewer pieces, and neural networks like AlphaZeros Monte Carlo tree search all contribute to a deep insight into the game.As computer hardware and AI software continues advancing at a rapid pace, so does playing strength. While Deep Blue in 1997 was handily defeated by todays mobile phone apps, engines continue to build their dominance to near-unbeatable levels.Tips for Competing Against Mac ChessWhen facing the higher Mac Chess levels as an amateur, be psychologically prepared for a stern challenge:Play patiently and minimize errors rather than chase an attack.Seek incremental advantages in positioning rather than spectacular tactics. Exchange pieces to reduce its tactical attacking chances. Avoid time pressure or fatigue leading to mental lapses.With concentrated focus, persistence, and a bit of luck, victory is possible!Final ThoughtsWhile more a teaching tool than competitive engine, Macs built-in chess game provides humans the chance to test their mettle against silicon-fueled calculating power and continuously improve. With computer mastery essentially achieved in chess after decades of exponential progress, games like Mac Chess help democratize AI access for educational purposes against super-human capabilities.Hopefully this guide provides helpful estimates for the playing strength of the Mac chess engine at various levels. Please let me know if you have any other questions!

What engine does apple chess use. What is the engine on chess.com. Which engine does chess.com use.

You can't perform that action at this time. You have chosen a chess engine for your Mac. You intend to download it or have already done so. But... you have never used a chess engine downloaded from the Internet before. How to do it ? Will the chess engine work ? What should you pay attention to ?I will answer these and other questions in this How-to.Users of macOS Ventura & newer are invited here.How-To is intended for inexperienced users. Was written in such a way that anyone willing after reading it will be able to run a chess engine downloaded from the web.Millions of Macs are in use around the world. Macs have a reputation for being among the most secure. They are also stable, fast, quiet and energy efficient. Why not to use Macs for computer chess, for analysis and playing chess engines, for training and playing online ? Nothing stands in the way.For Macs, there is a lot of excellent software for all kinds of chess applications.It is worth using the best, strongest, most versatile and interesting chess engines together with good software. And they are available for Mac :!Always download chess engines from safe places on the web with a good and established reputation.For starters, the good news is that getting the Chess Engine ready to run on your Mac is very easy. As you become practiced, it will literally take you seconds :!Koivisto, Lc0, Stockfish, RubiChess, MadChess, Velvet - these are just a few examples of notable and popular chess engines that you can download for free from the Files section and use on your Mac.There is the award-winning, unique and versatile Dragon by Komodo Chess. One of the few commercial chess engines that is worth its price. And it is available for Mac to download from the manufacturer's website.And finally, there is also Berserk - a powerful and free open source chess engine to which I dedicated a separate page on my blog Using the Berserk chess engine as an example, I will show you how to run the chess engine on Mac. The Berserk chess engine and other related files (e.g. logos) are placed in a 7-Zip archive. This is to reduce the volume of downloaded files.Your Mac has a