

Training approach #2: Playing against Leela Zero restricted to a 1 node search.

Using Nibbler to play a Leela 1-node match

Assumptions

1. You have a working Leela Zero installation already (see another work instruction for guidance on this)

Step-by-step

A. Download Nibbler

1. Go to <https://github.com/rooklift/nibbler>
2. Within the introductory text, click on the Releases link.
3. Download the latest version for Windows (2.1.6 at the time of writing)

The screenshot shows the GitHub Releases page for the repository `rooklift/nibbler`. The release `v2.1.6` is highlighted as the "Latest release". It was released 14 days ago. The release notes include two bullet points: "Automatically save the window size when the user changes it." and "Mostly fix Leela's Temperature setting not working. The problem was caused by Leela not sending all its known options on startup. In the event you still have issues, you can force Leela to do so, by naming it `lc0_pro.exe`. (Yes, really.)". Below the notes, there is a section for "Assets" with four items: `nibbler-2.1.6-linux.zip` (70.8 MB), `nibbler-2.1.6-windows.zip` (67.2 MB), `Source code (zip)`, and `Source code (tar.gz)`.

Latest release

v2.1.6

rooklift released this 14 days ago

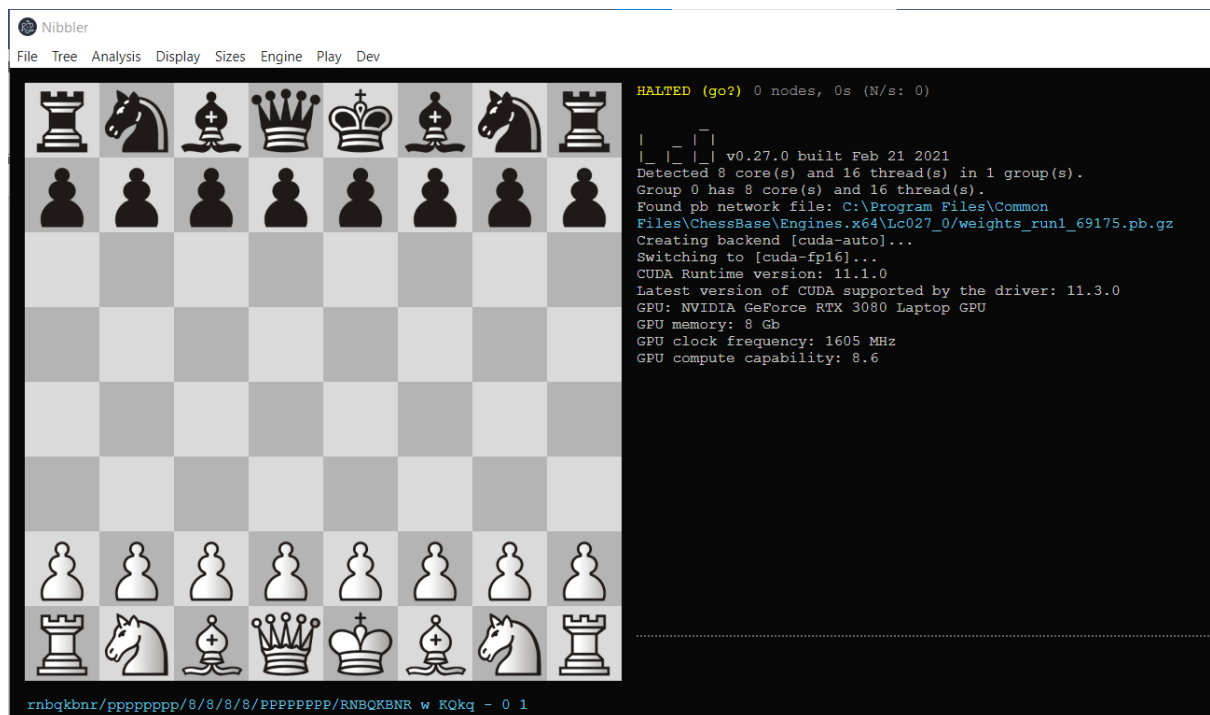
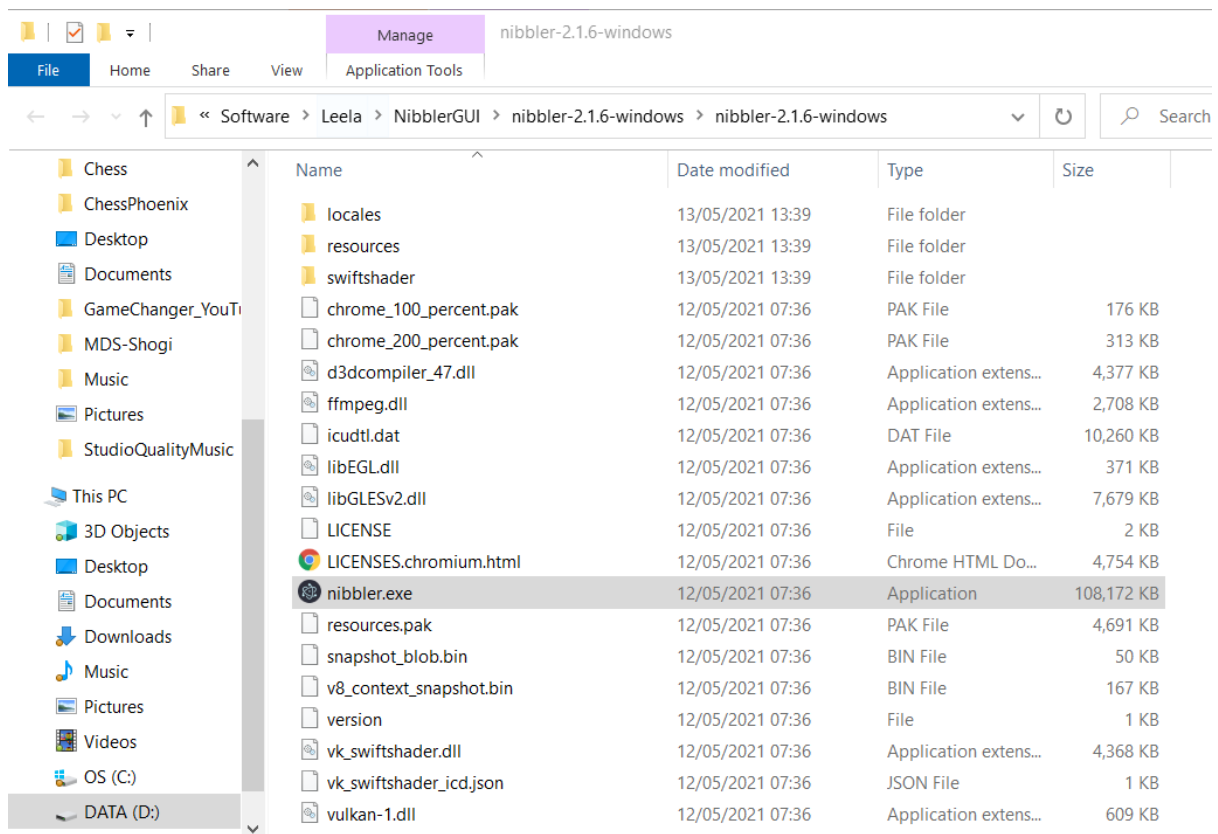
- Automatically save the window size when the user changes it.
- Mostly fix Leela's Temperature setting not working. The problem was caused by Leela not sending all its known options on startup. In the event you still have issues, you can force Leela to do so, by naming it `lc0_pro.exe`. (Yes, really.)

In other news, I rewrote some of the code that deals with layout of items on the screen. In the event that you encounter any layout issues, please open a bug report here, or mention it in the Lc0 Discord.

Assets 4

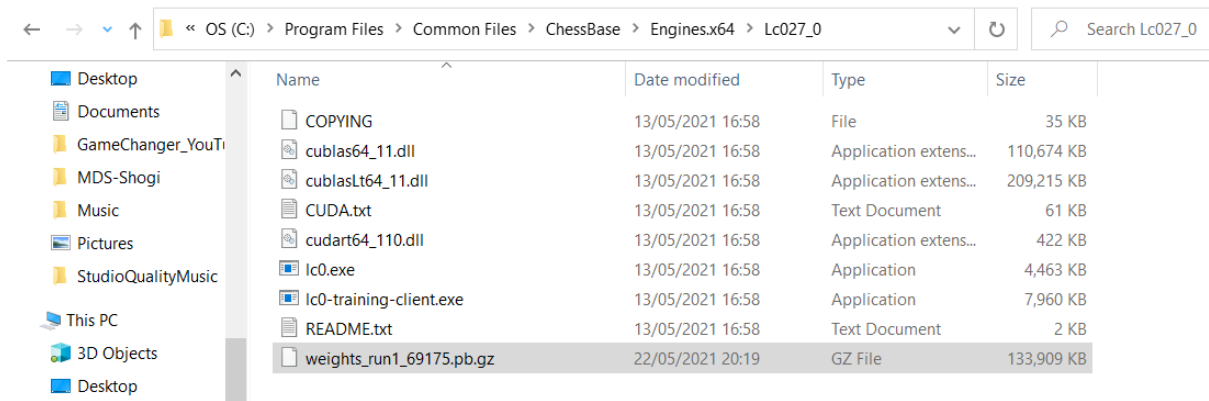
<code>nibbler-2.1.6-linux.zip</code>	70.8 MB
<code>nibbler-2.1.6-windows.zip</code>	67.2 MB
<code>Source code (zip)</code>	
<code>Source code (tar.gz)</code>	

4. Here I click on `nibbler-2.1.6-windows.zip` and download it to my PC
5. Double-click on the downloaded zip file and extract it to a folder of your choosing.
6. Double-click on the `nibbler.exe` file to start up the program



B. Configuring Nibbler to use your Leela Zero installation

1. Choose the Engine tab and then Choose Engine
2. Browse to the folder where you placed your Leela binary and the network weights file



3. Select the lc0.exe file and click on Open
4. You should now see something like the following output:

```

HALTED (go?) 0 nodes, 0s (N/s: 0)

|_|_|_|
|_|_|_| v0.27.0 built Feb 21 2021
Detected 8 core(s) and 16 thread(s) in 1 group(s).
Group 0 has 8 core(s) and 16 thread(s).
Found pb network file: C:\Program Files\Common
Files\ChessBase\Engines.x64\Lc027_0\weights_run1_69175.pb.gz
Creating backend [cuda-auto]...
Switching to [cuda-fp16]...
CUDA Runtime version: 11.1.0
Latest version of CUDA supported by the driver: 11.3.0
GPU: NVIDIA GeForce RTX 3080 Laptop GPU
GPU memory: 8 Gb
GPU clock frequency: 1605 MHz
GPU compute capability: 8.6

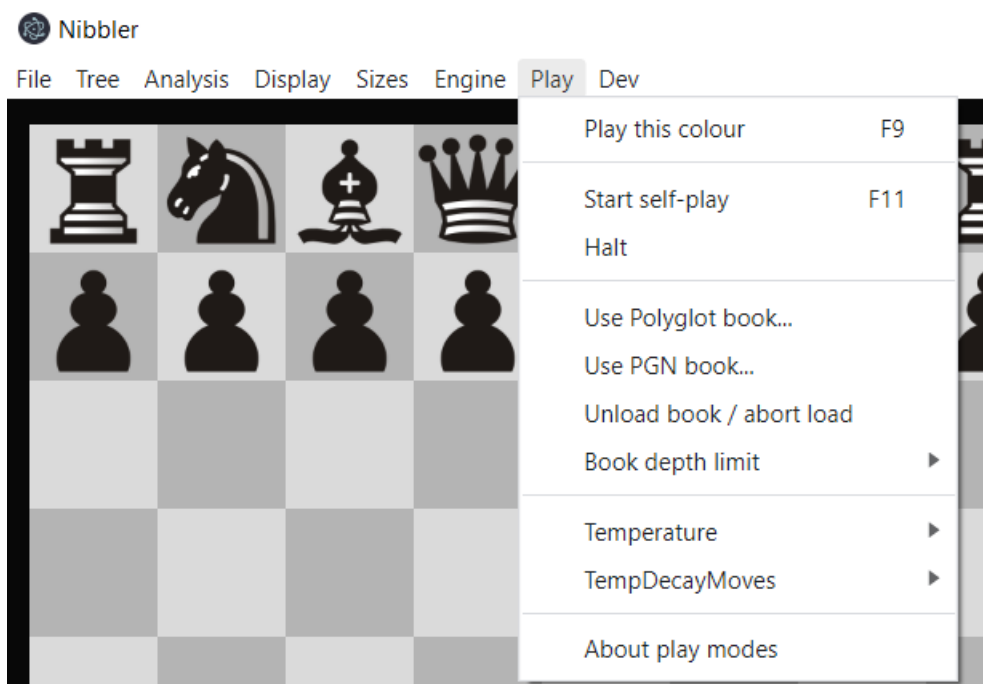
```

C. Playing Leela on one-node search

1. Select Engine then Node limit – auto-eval / play and set this to 1.



2. You can play White or Black against Leela. You can flip the board by choosing Display and then Flip Board
3. If you want to be White, you can make a move and then choose Play and then Play this colour.



4. If you want to be Black just choose Play and then Play this colour from the starting position.
5. As you can see, you can also make a number of moves on the board and then make Leela play that position.
6. Once the game is finished, export the game via File and then Save this Game.



7. The game will be saved in pgn format.