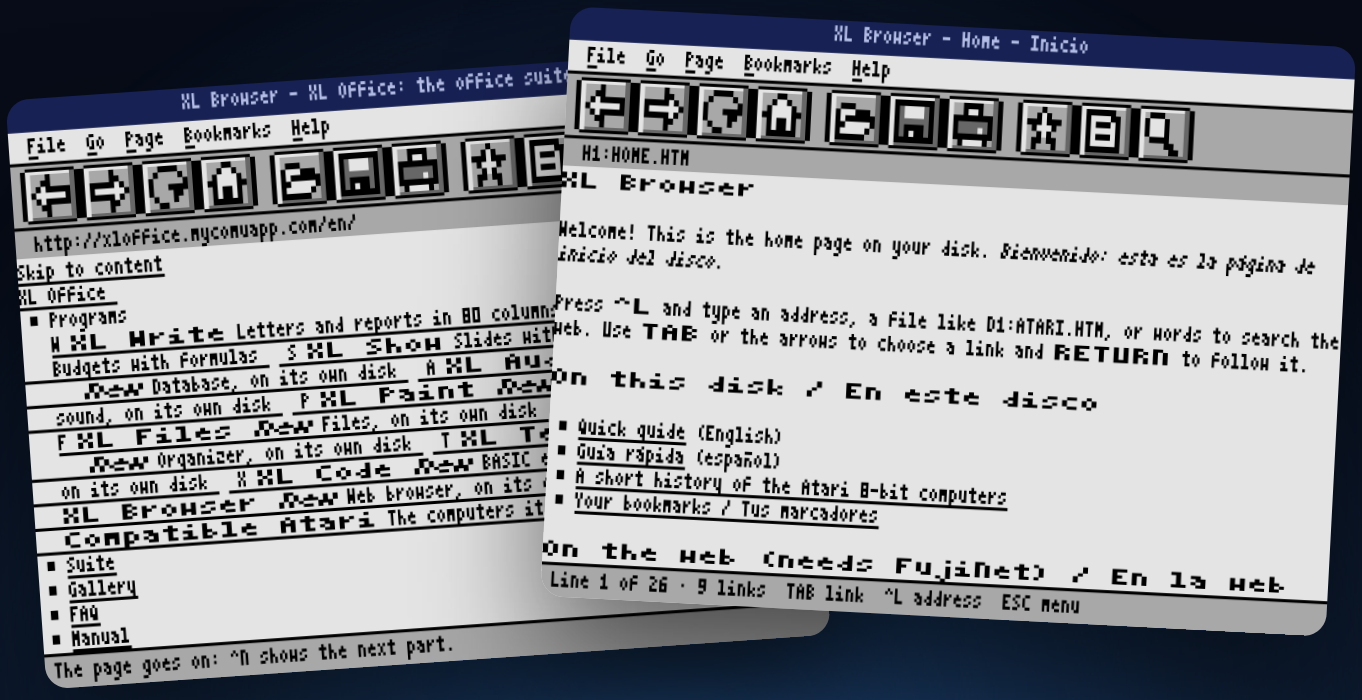
XL Browser guide

FujiNet with an emulator

Browse the web with XL Browser on atari800 and FujiNet-PC, the free FujiNet for your computer



FujiNet with an emulator

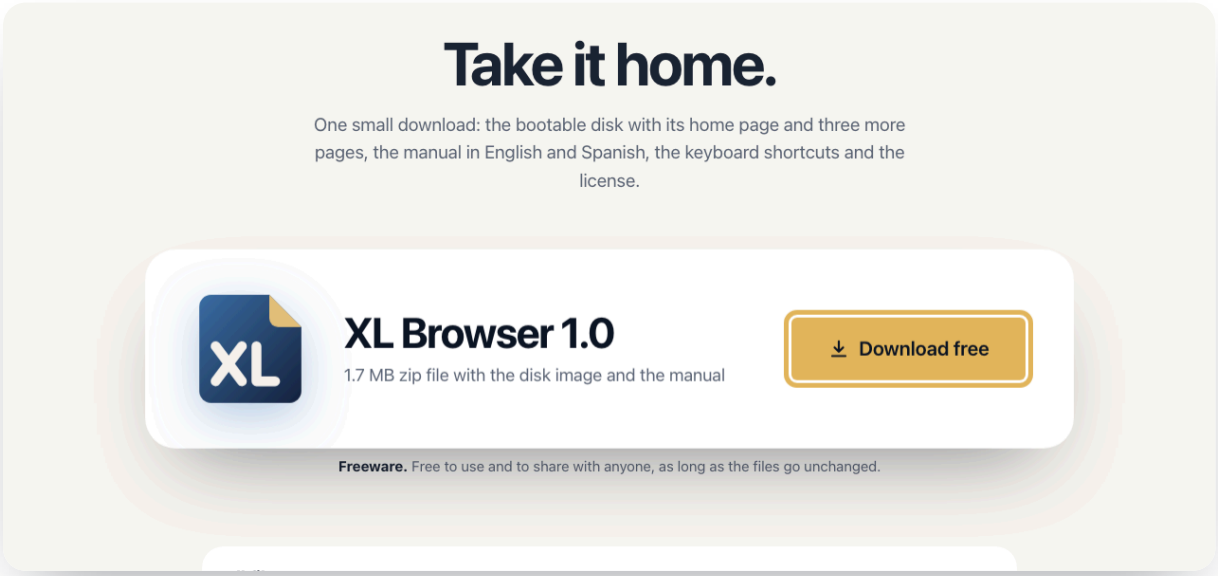
This guide takes you from nothing to browsing the web with XL Browser on your computer, step by step. You do not need an Atari or a FujiNet: you will install two free programs, **atari800** (an emulator: an Atari inside your computer) and **FujiNet-PC** (the FujiNet that connects the Atari to the internet). It takes about 15 minutes. These steps were tested on a Mac; on Windows and Linux they are the same, only the files change (each step says which one).



How the pieces fit: atari800 and FujiNet-PC talk through NetSIO, and FujiNet-PC brings the web.

Step 1. Download XL Browser

On the XL Browser page of this website, press **Download free**. You get `XLBrowser-1.0.zip`: open it (double click) and keep the file `XLBrowser-1.0.atr`, which is the Atari disk with XL Browser.

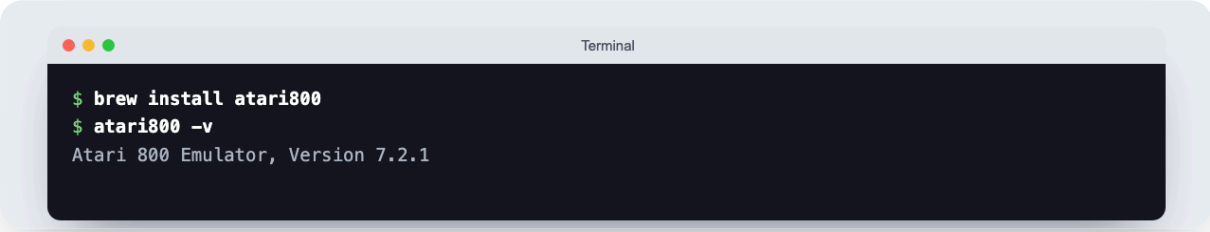


The download button on the XL Browser page.

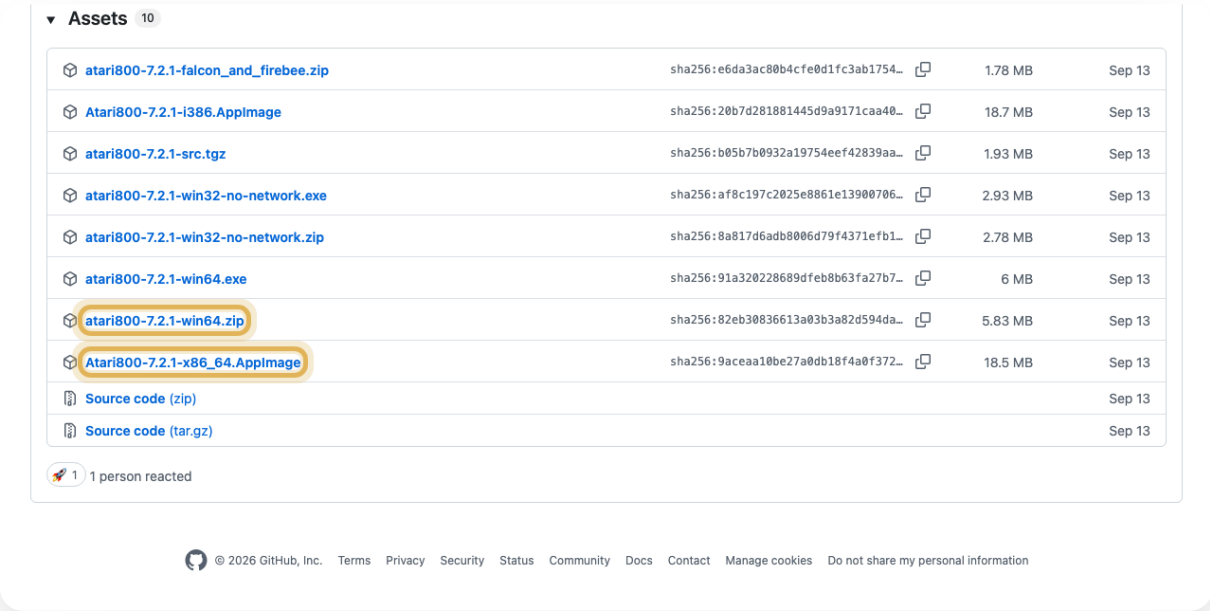
Step 2. Install the atari800 emulator

You need atari800 version 7.2.1 or later (it brings NetSIO, the connection with FujiNet-PC).

Your computer	How to install it
Mac	Install Homebrew (follow the instructions at `brew.sh`), then open **Terminal** and type `brew install atari800`
Windows	Download `atari800-7.2.1-win64.zip` from `github.com/atari800/atari800/releases` and unzip it. Do not use the files that say `no-network`: they cannot connect to FujiNet
Linux	Download `Atari800-7.2.1-x86_64.AppImage` from the same page and make it executable



On a Mac, Homebrew installs it with one line; atari800 -v shows the version.



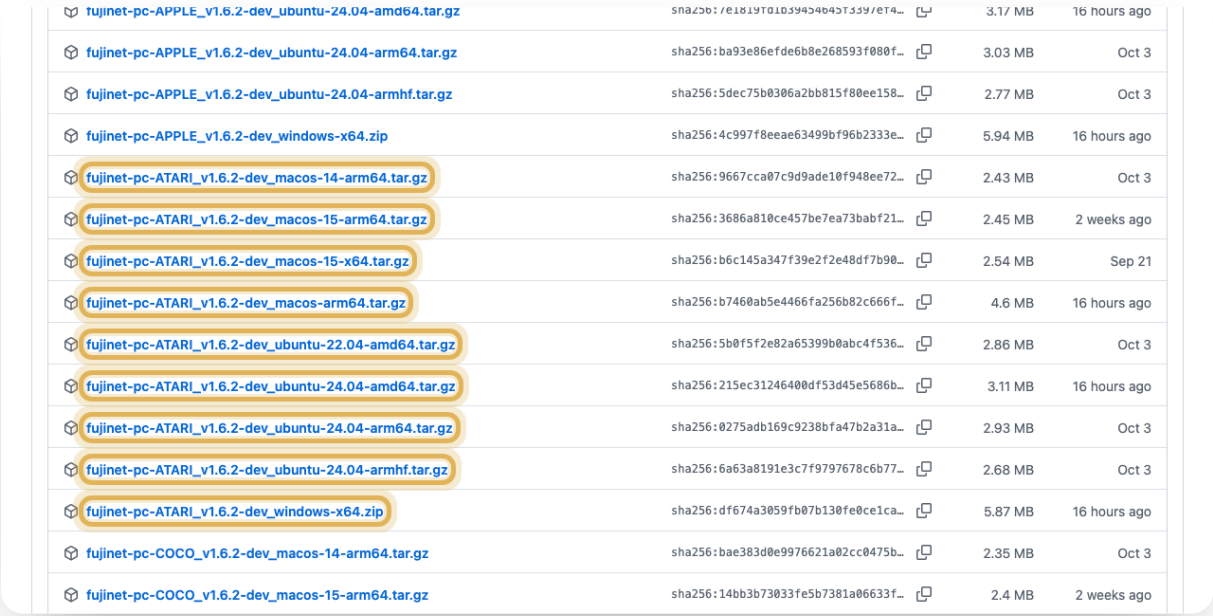
On Windows and Linux, the files of the atari800 releases page (the two highlighted).

You do not need to look for the Atari ROMs: the first time it starts, atari800 7.2.1 downloads them by itself (from the PC Xformer package of emulators.com, an authorized distribution).

Step 3. Download FujiNet-PC

Open `github.com/FujiNetWIFI/fujinet-firmware/releases` and look for **FujiNet-PC Nightly**. In its list of files, choose the one that starts with `fujinet-pc-ATARI_` and ends with your system:

Your computer	File
Mac with an Apple chip (M1, M2...)	`fujinet-pc-ATARI_..._macos-15-arm64.tar.gz` (`macos-14` if you have macOS 14)
Mac with an Intel chip	`fujinet-pc-ATARI_..._macos-15-x64.tar.gz`
Windows	`fujinet-pc-ATARI_..._windows-x64.zip`
Linux	`fujinet-pc-ATARI_..._ubuntu-24.04-amd64.tar.gz`



The FujiNet-PC files: the ones for Atari are highlighted.

Step 4. Unpack it and copy the disk

Unpack the file you downloaded: you get a folder called `fujinet-pc-ATARI`. Inside there is a folder called `SD`, which plays the part of FujiNet's memory card: **copy the disk into SD:** `XLBrowser-1.0.atr`.

On a Mac you can do it all in **Terminal** with these lines (the third one tells macOS that you trust FujiNet-PC; without it the system may refuse to open it):



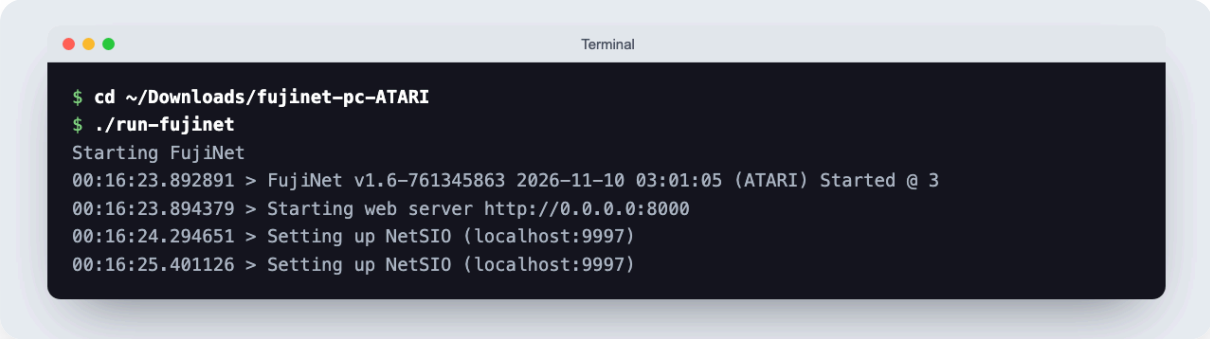
Unpacking FujiNet-PC and copying the disk, from Terminal.



The folder, ready: run-fujinet starts FujiNet-PC (1) and the disk goes in SD (2).

Step 5. Start FujiNet-PC

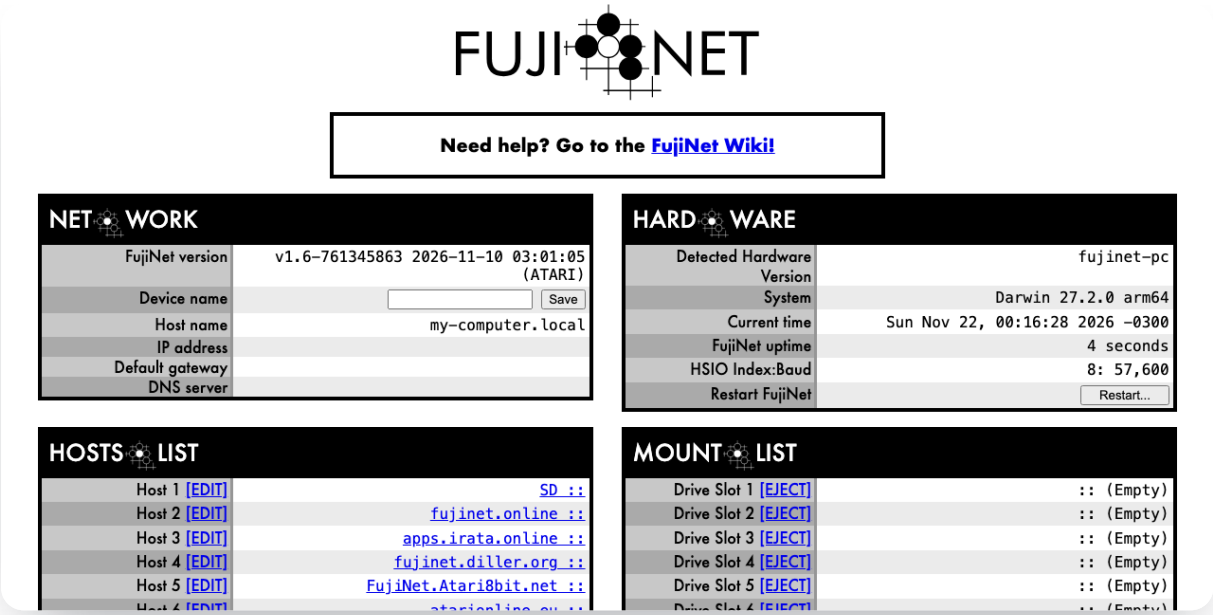
Open **Terminal** in the folder `fujinet-pc-ATARI` and type `./run-fujinet` (on Windows, double click `run-fujinet.bat` in that folder). Some messages appear; when you see `Starting web server http://0.0.0.0:8000`, it is ready. **Leave that window open** the whole time: closing it turns FujiNet off.



FujiNet-PC running: its web server and NetSIO are ready.

Step 6. Open the FujiNet control panel

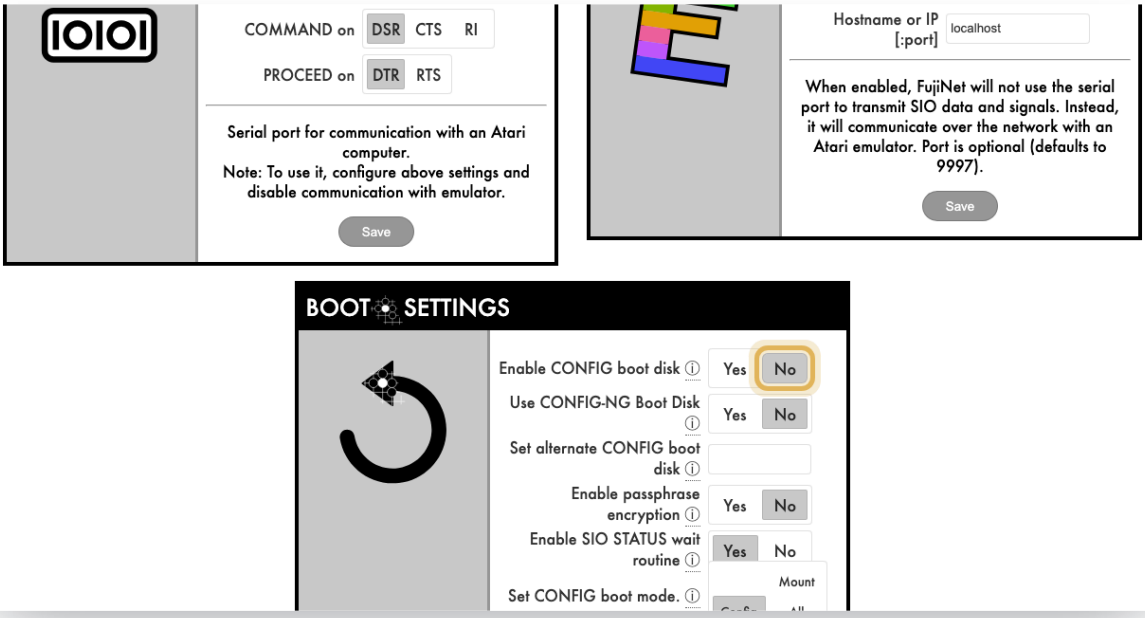
With FujiNet-PC running, open your web browser (Safari, Chrome, Edge, Firefox) and go to `http://localhost:8000`. That page is FujiNet's control panel; it only works on your computer.



The FujiNet control panel.

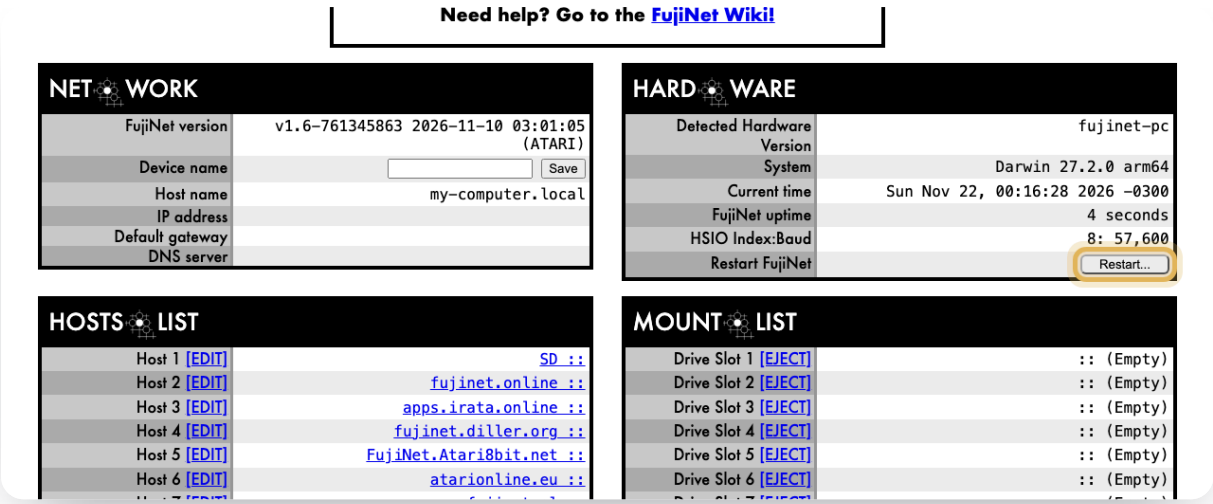
Step 7. Turn off the CONFIG disk

FujiNet normally starts its own setup program, CONFIG. We want it to start XL Browser instead. Go down the panel to **Enable CONFIG boot disk**, click **No** and then the **Save** button of that box.



Enable CONFIG boot disk: No, and Save.

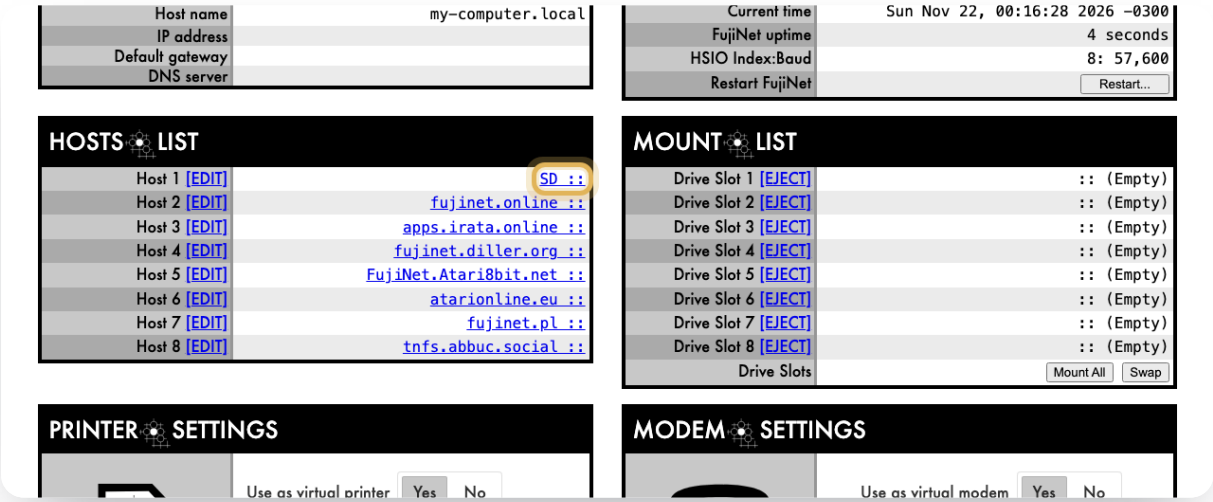
This change needs a restart: go up to the **HARDWARE** box, press **Restart...** and then **Confirm**. Wait a few seconds and reload the page.



Restart FujiNet: press Restart... and then Confirm.

Step 8. Put the disk in drive 1

In the **HOSTS LIST** box, click **SD** (the `SD` folder of step 4).



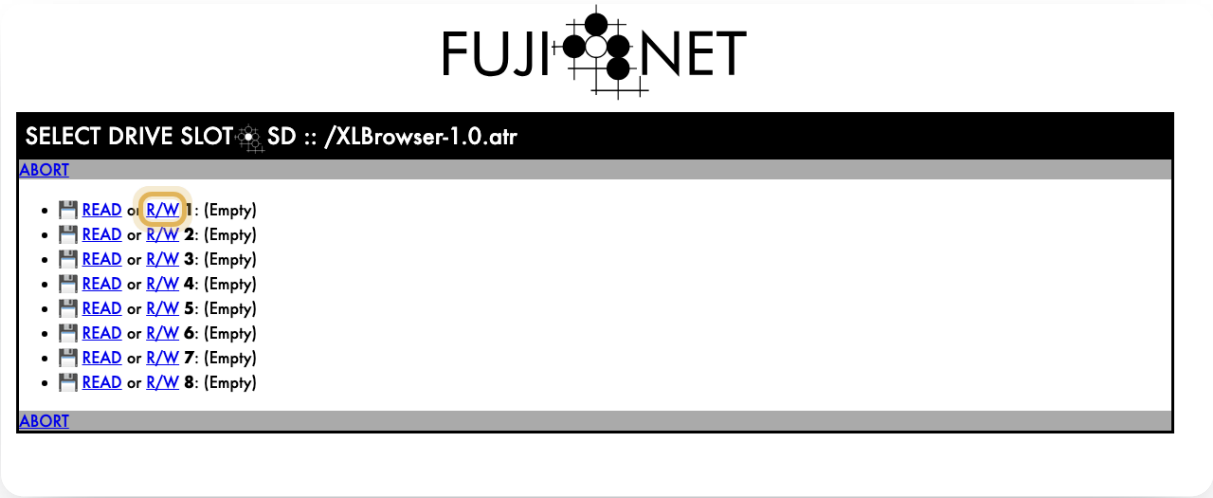
Host 1 is the SD folder.

Click `XLBrowser-1.0.atr`:



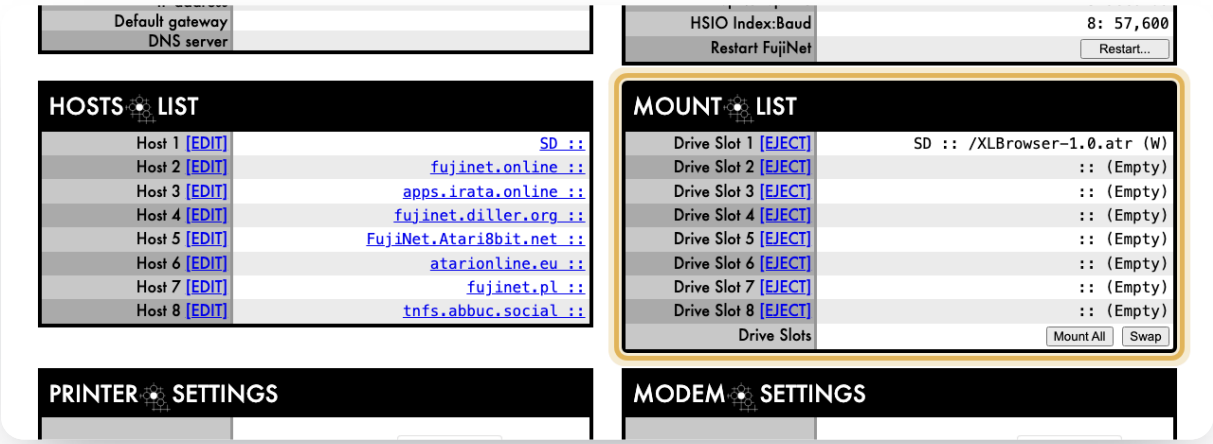
The disks in the SD folder.

Choose drive slot **1** and press **R/W** (read and write), so XL Browser can save your bookmarks and pages:



Drive slot 1, in R/W mode.

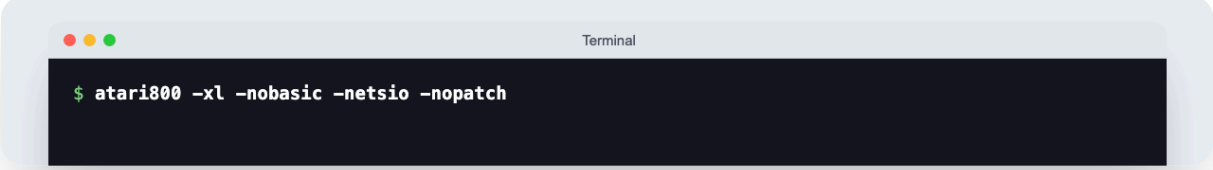
Back in the panel, the **MOUNT LIST** shows the disk in drive slot 1:



XLBrowser-1.0.atr in drive slot 1.

Step 9. Start the emulator

Open another **Terminal** window (leave the FujiNet one open) and type:

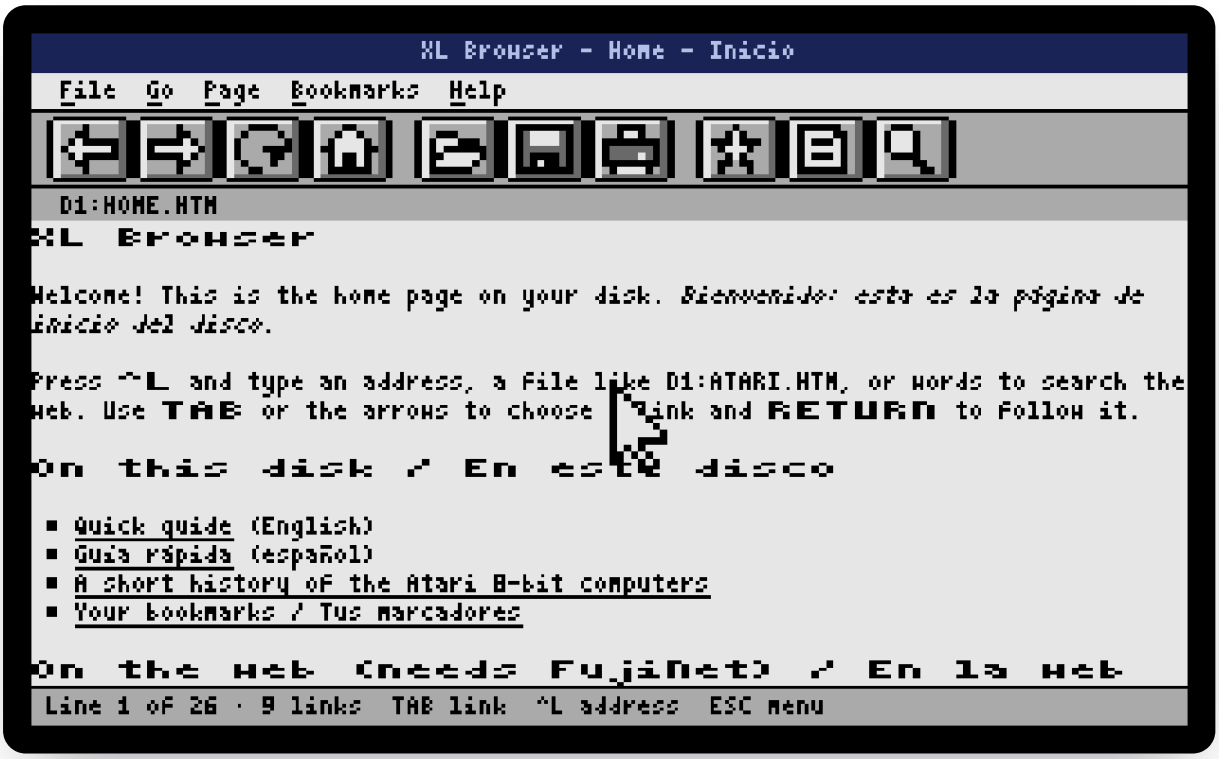


The command that starts the emulator connected to FujiNet-PC.

On Windows, open a command window in the atari800 folder and type the same line with `atari800.exe` at the start. What each part means:

Part	Why
`-xl`	An Atari 800XL
`-nobasic`	BASIC off, as XL Browser needs
`-netsio`	Connects the emulator to FujiNet-PC
`-nopatch`	Required: without it, the emulator answers the disk itself and FujiNet never hears the Atari

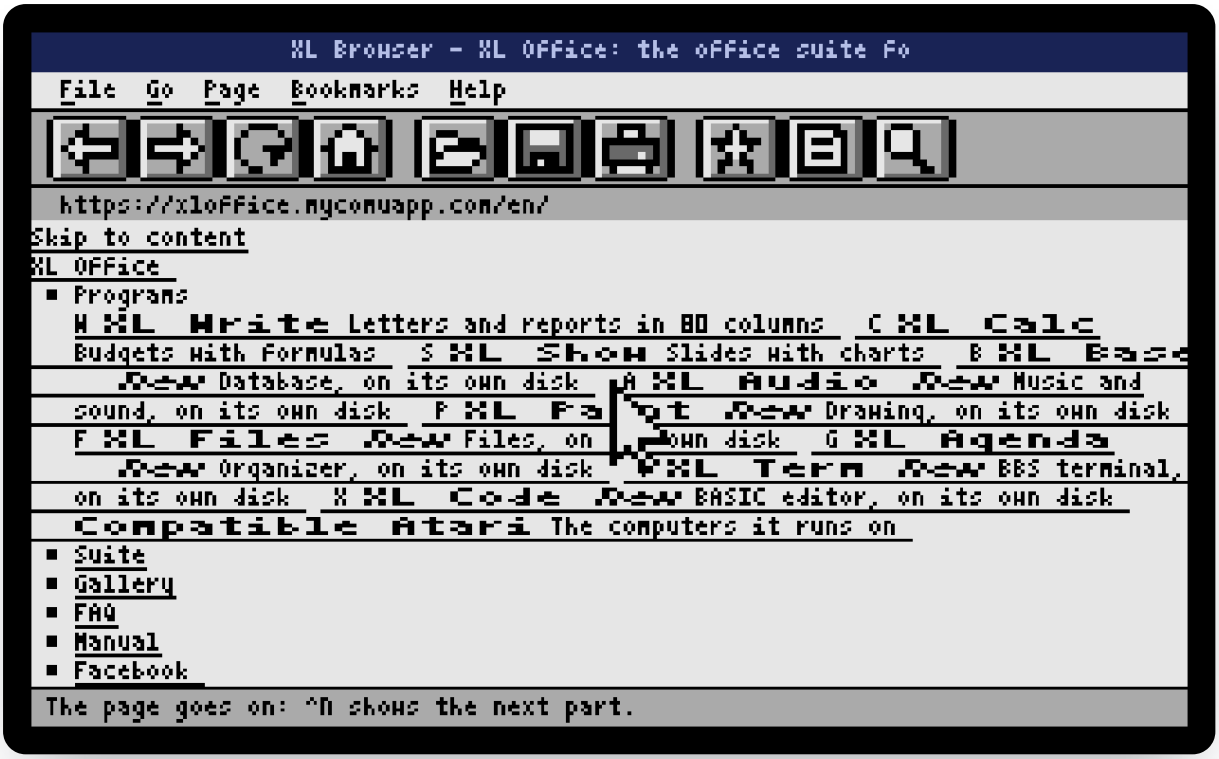
Do not add a disk to the line: the disk is the one FujiNet serves in drive 1. After a few seconds XL Browser appears with its home page. In the FujiNet window you will see the disk being read.



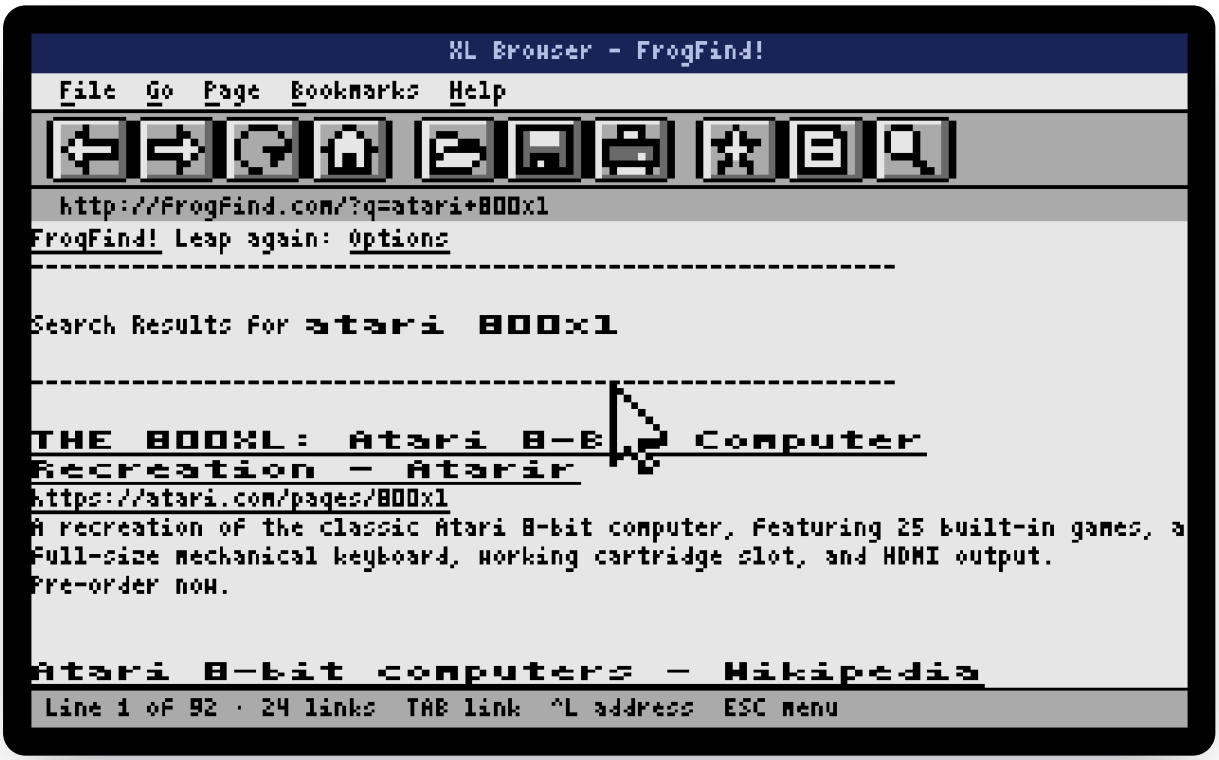
XL Browser, started from FujiNet: the address bar says D1:HOME.HTM.

Step 10. Browse

Press `^L` (CONTROL and L), type an address such as `xloffice.mycomuapp.com/en/` or `68k.news` and press `RETURN`. Secure sites (`https://`) work too: FujiNet makes the connection. To search, type a few words, such as `atari 800xl`.



A real web page, through FujiNet-PC.



A search in FrogFind.

Next time you only need steps 5 and 9: start FujiNet-PC and then the emulator.

If something fails

What you see	What to do
Error 138 on a web page	FujiNet-PC is not running, or the emulator was started without `-netsio` or `-nopatch`
FujiNet's CONFIG screen instead of XL Browser	Step 7 is missing: set **Enable CONFIG boot disk** to **No**, save, restart and mount the disk again (step 8)
The emulator shows a blank screen or BASIC	Start it with `-nobasic` and check that drive slot 1 has `XLBrowser-1.0.atr`
Bookmarks are not saved	Mount the disk with **R/W**, not **READ**
macOS says FujiNet-PC cannot be opened	Run the `xattr` line of step 4, or allow it in **System Settings > Privacy & Security**
Nothing connects	Only one FujiNet-PC at a time: close any other one. Both programs use NetSIO port `9997`



Happy browsing.

The full manual, the videos and the latest version are online.

xloffice.mycomuapp.com/browser

Questions, bugs and ideas

contacto@mycomuapp.com

XL Browser is an independent project by MyComuApp. FujiNet and FujiNet-PC belong to the FujiNet project; atari800 to its authors. Atari and the Atari XL/XE names are trademarks of their respective owners; these projects are not affiliated with or endorsed by them.