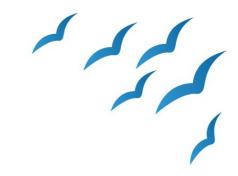
# A home digital music player with Volumio

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## Problem

How to listen to digital music on my home stereo?

#### I want:

- Excellent audio quality
- Easy access to my music files
- Easy access to web radios
- Web-based UI



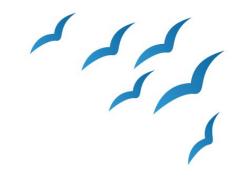


### Volumio

- Open source music player
- Debian-based
- Runs on Raspberry Pi, other small devices, PCs
- Mounts USB drives, NAS locations
- Supports most DACs (digital-to-analog converter) of Pi form factor
- Edit playlists
- Integrated web radio directory
- In-place firmware upgrade

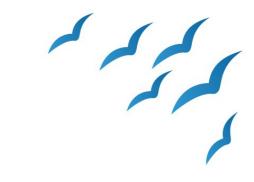
## Basic installation (Raspbery Pi)

- Buy a DAC (I use HifiBerry DAC), plug into your Pi
- Flash a SD card with the Volumio distribution
- Attach a USB drive (or connect to a local NAS resource)
- Connect RCA cables to your amplifier
- Boot the Pi
- Find the DHCP IP address, load the GUI in your browser
  - Configure network on your LAN: set a fixed IP address
  - Configure playback options: Select your DAC
- Create a web page shortcut icon on your mobile



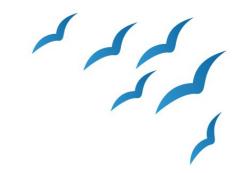
#### SSH access

- Unlock SSH root access (special web command)
- SFTP from Filezilla
- Useful to back up your playlists, to rsync the USB music drive to an external source



## Plugin architecture

- All manners of community-provided plug-ins, of variable reliability
- Spotify plugin, requires Spotify premium account
- Pandora plugin, but Pandora blocks AU/NZ geoIP :-(
- Onedrive cloud storage
- Etc.



## Cost

- DAC: \$50
- Raspberry Pi: \$60 (+ case \$12)