

Holocanto – Tutorial

This tutorial will guide you through a few steps in Holocanto so that you can get familiarized with the basic commands of this program in order to get the best out of it.

For more examples and detailed explanations see the video tutorials. The program and more tutorials can be downloaded in www.holocanto.org.

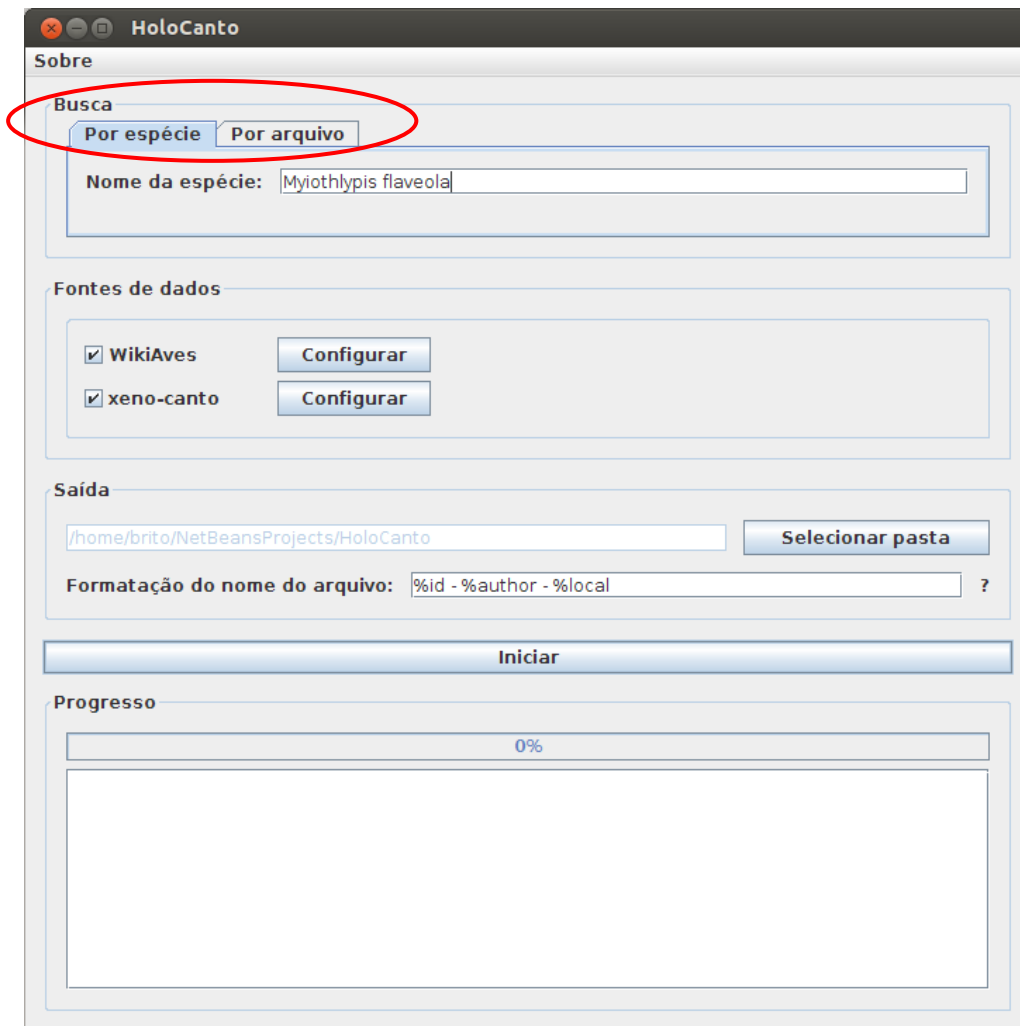


Summary

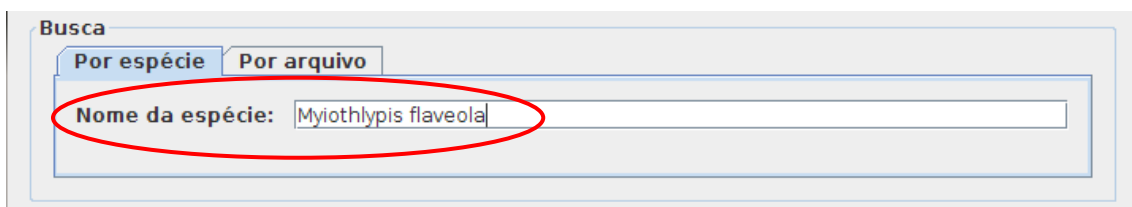
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1. Searching Mode

When starting HoloCanto, you'll see two options in the "Busca" section.



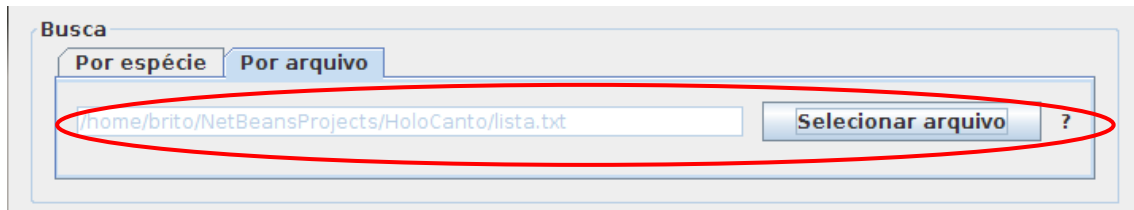
1. **By species:** when searching for recordings of a single species, this is the best option. This option is advised for anyone working with bioacoustics and wanting to evaluate the songs of a single species in more detail.



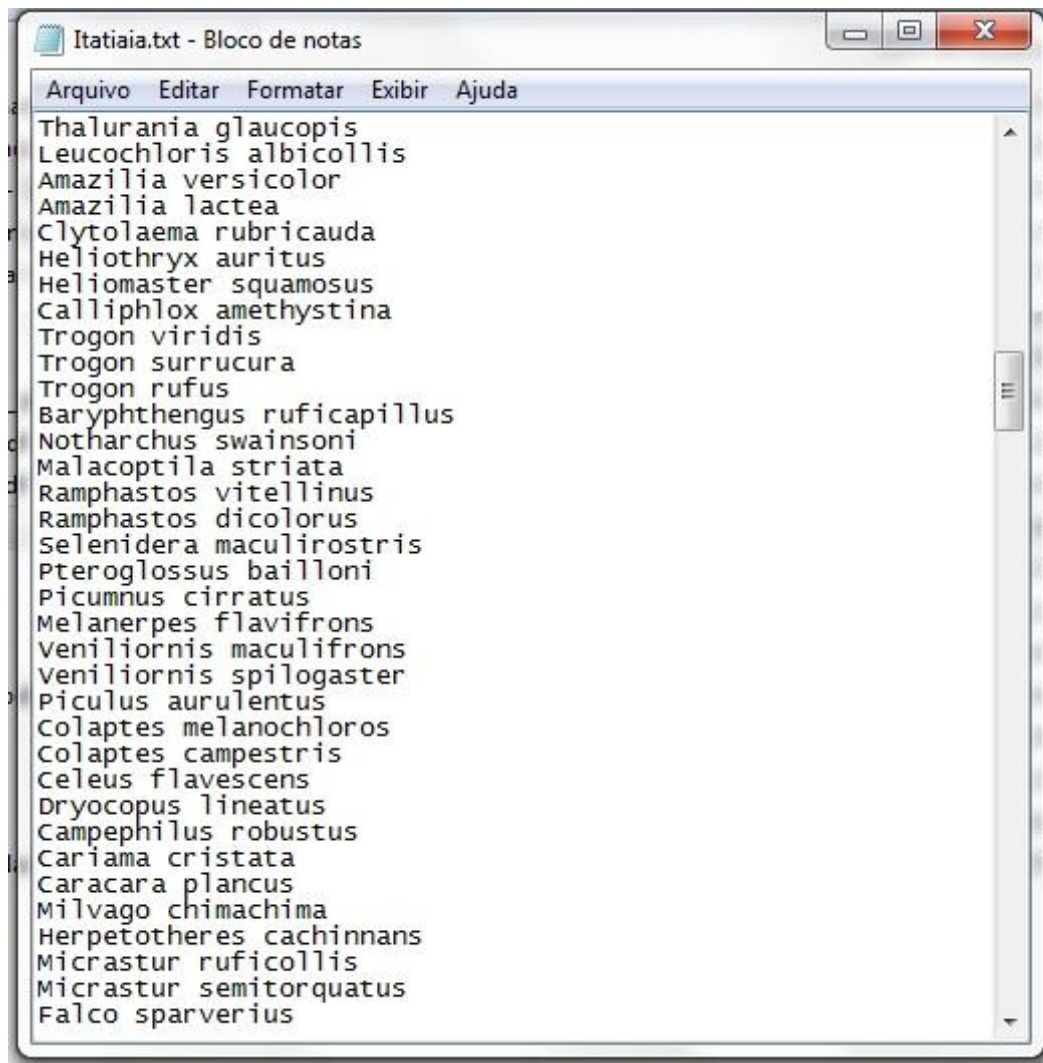
In the field "Nome da espécie", shown above, you will write the name of the species that you will work with. For more information on how to put the name of the species according to the chosen database, see topic 2 (Data Sources).

2. **By file:** to find recordings of species from a specific list, this is the best option. Here, you can import lists from a specific city, region, state, biome and others. This option is advised for those who need to perform work (survey, monitoring etc.) or for

those who want to go birdwatching in a new location. Search for the list of species of that locality (eg, by taxeus, www.taxeus.com.br) and Holocanto will do the "dirty work" of downloading all the songs for you.



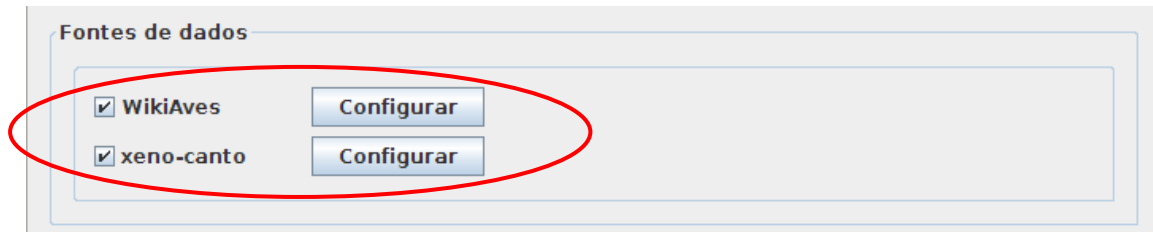
Important: The file must be in .txt or .csv format and must contain the name of one species per line. No other data can be in the list.



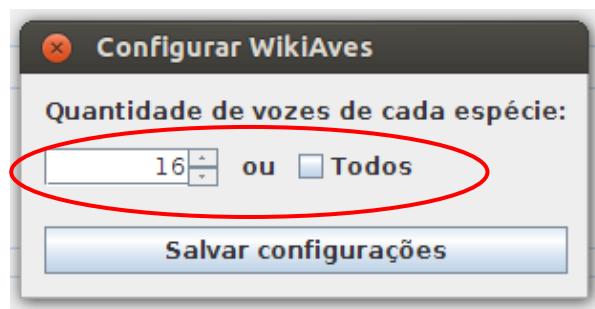
2. Data Sources

In this section, you can choose in which database Holocanto will search for recordings: xeno-canto, WikiAves or both.

Attention: remember to carefully check whether the species name is spelled correctly.



After choosing in which database to work with (you can choose both), you can adjust the parameters for each data source. Put the amount of recordings you wish to download or choose "Todos" and click "Salvar configurações".



Warning: In some situations the same species may have different scientific names in the two databases, because one (xeno-canto) considers the species list of the American Ornithologists' Union (AOU) and the other database considers the species list of the Brazilian Committee of Ornithology (CBRO). In this case, the user must check for the difference of scientific names for the same species and, if so, make one action to download from the WikiAves database using the scientific name according to CBRO and another action to download from the xeno-canto database using the scientific name according to the AOU.

Example: *Tangara sayaca* Vs. *Thraupis sayaca*.

If the user makes a search looking for "*Tangara sayaca*" in both databases (xeno-canto and WikiAves), the recordings will download from WikiAves but have 0 downloads from xeno-canto. When the number of downloaded recordings in any database is zero, it is advisable to check whether the species has any other name.

In this case, the user would have to do two actions to download:

Action 1: Type "*Tangara sayaca*" in the field "Nome da espécie" to download the recordings from the WikiAves database.

Action 2: Type "*Thraupis sayaca*" in the field "Nome da espécie" to download the recordings from the xeno-canto database.

Warning 2: the user must also be aware of the species that were 'split' and have not been recognized by the AOU. In this case you should download the nominal species for future screening.

Example 2: In the case of *Piculus chrysochloros* which was 'split' in six valid taxa: *Piculus xanthochloros*; *Piculus capistratus*; *Piculus laemostictus*; *Piculus paraensis*; *Piculus chrysochloros* and *Piculus polyzonus* (for details see Del-Rio *et al.*, 2013. http://www.ib.usp.br/~lfsilveira/pdf/a_2013_piculus.pdf) (Figure 1), you will find this hindrance between the databases.

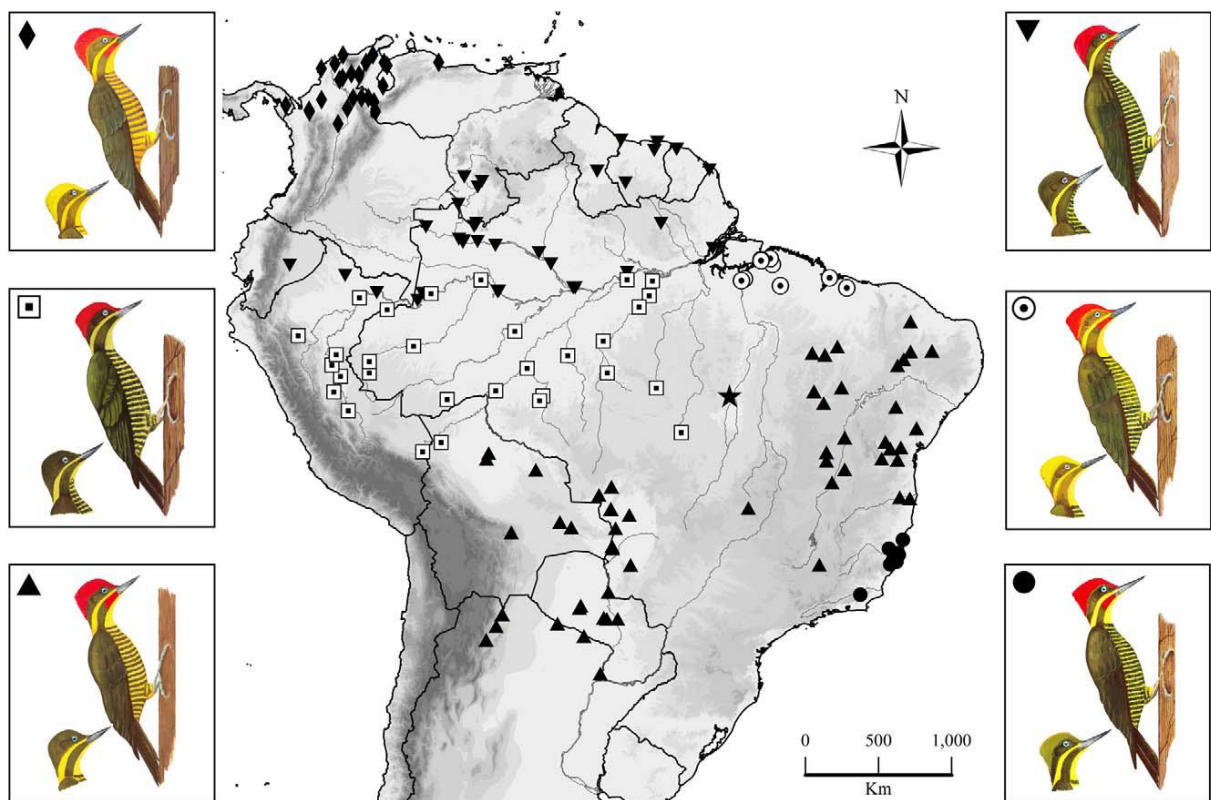
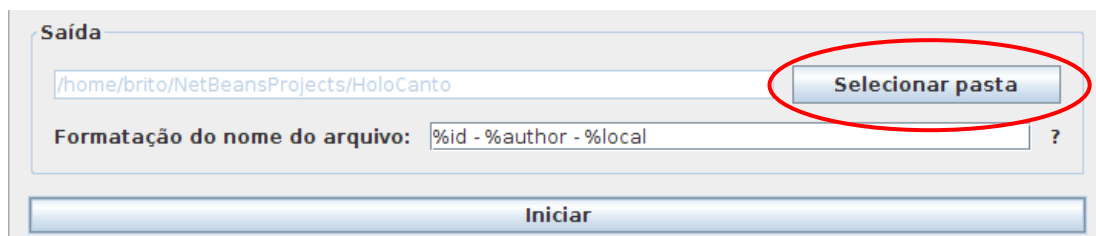


Figura 1: Figure from Del-Rio *et al.*, 2013 (A taxonomic review of the Golden-green Woodpecker, *Piculus chrysochloros* (Aves: Picidae) reveals the existence of six valid taxa).

In WikiAves the 6 valid taxa are already 'split', however, in xeno-canto, the *Piculus chrysochloros* "complex" is still considered as one. For this reason, you'll have to check these cases carefully. If necessary download the nominal species (species name before 'split') in the xeno-canto database for future screening.

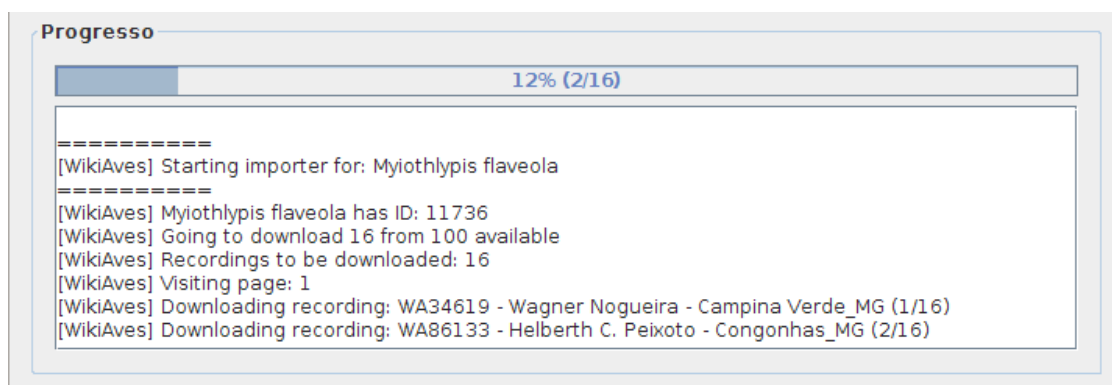
3. Output

In this section, you choose to where the files will be downloaded. Just click "Selecionar pasta". Along with the recordings, a .csv file with the metadata of the recordings will come along. This file can be opened in Excel and converted to spreadsheet format.



4. Progress

Keep up with the progress and history of your download in the "Progresso" section.



Your files are ready for use in the folder you chose to download. Good studies.

