

TUTO TOFF Extractor

1) How to download TOFF Extractor

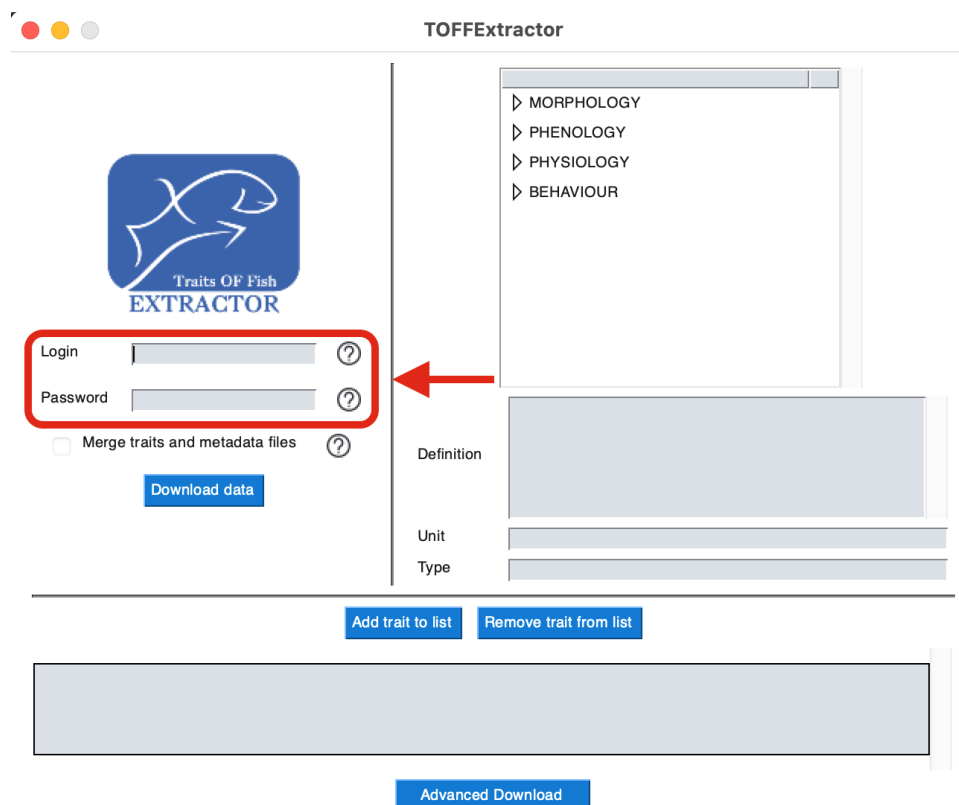
The application can be downloaded from the Apps section on the website or directly through this link: [here](#).

2) Open TOFF Extractor

After downloading TOFF, you may simply launch the executable file called “TOFF Extractor”.

3) Login and password

To download data from the database, you need to fill your login and your password in the respective fields. To obtain a login and a password you must first request access on the website by filling the contact form available on the homepage through the buttons “Join Us” or “Get Access”.

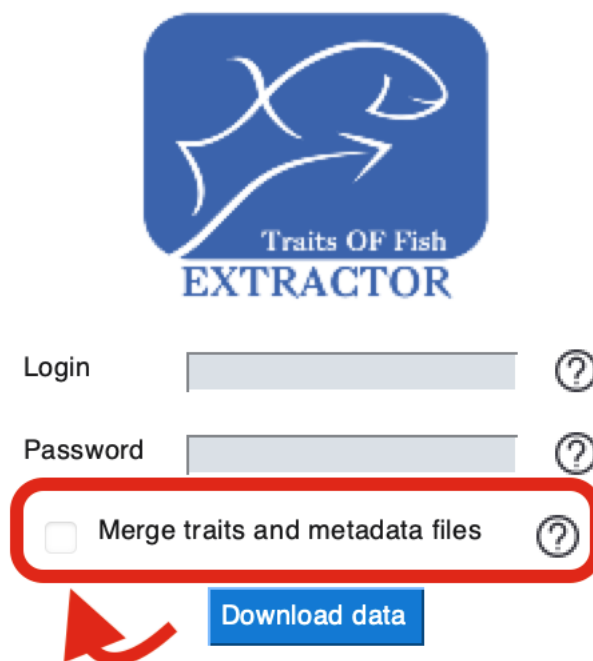


The screenshot shows the TOFFExtractor application window. The title bar reads "TOFFExtractor". The main interface is divided into two panes. The left pane contains the "Traits OF Fish EXTRACTOR" logo, which is a blue square with a white fish silhouette and the text "Traits OF Fish EXTRACTOR" below it. Below the logo are two input fields: "Login" and "Password", each with a question mark icon to its right. These fields are enclosed in a red rectangular box. Below the input fields is a checkbox labeled "Merge traits and metadata files" with a question mark icon to its right, and a blue button labeled "Download data". The right pane contains a list of categories: "MORPHOLOGY", "PHENOLOGY", "PHYSIOLOGY", and "BEHAVIOUR", each preceded by a right-pointing triangle. Below this list are three input fields labeled "Definition", "Unit", and "Type". At the bottom of the window are two blue buttons: "Add trait to list" and "Remove trait from list". Below these buttons is a large, empty rectangular box, and at the very bottom is a blue button labeled "Advanced Download". A red arrow points from the right pane towards the "Login" and "Password" fields.

I. Downloading the whole dataset

i. Choosing the format of the downloaded data set

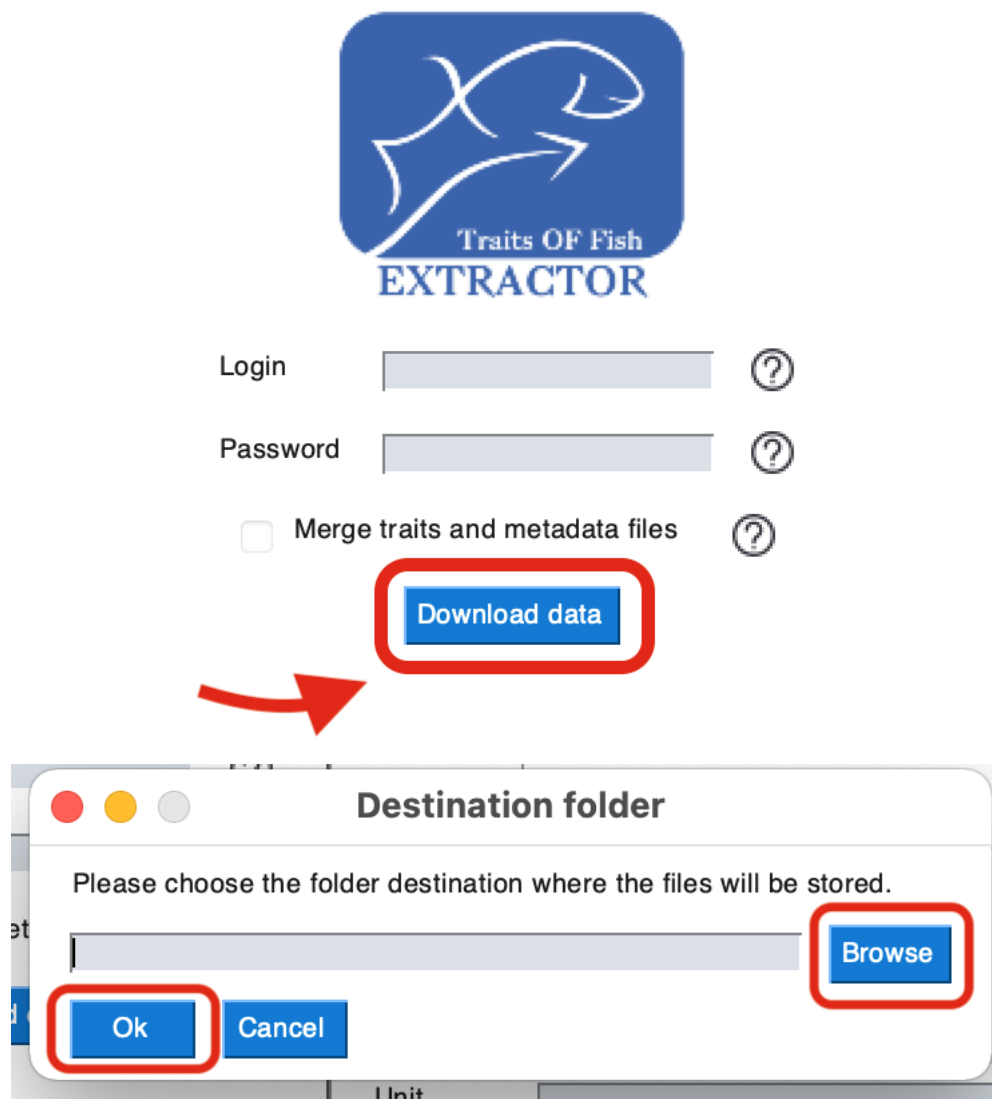
By default, TOFF Extractor creates two files on download: one for the traits, and one for the metadata. However, if you check the box called “Merge traits and metadata files”, the application will merge these two files. Be warned that the generated file is therefore larger.



The screenshot shows the TOFF Extractor web interface. At the top is a blue logo with a white fish silhouette and the text "Traits OF Fish EXTRACTOR". Below the logo are two input fields: "Login" and "Password", each with a question mark icon to its right. Below these fields is a checkbox labeled "Merge traits and metadata files" with a question mark icon to its right. A red rectangular box highlights the checkbox and its label. Below the checkbox is a blue button labeled "Download data". A red arrow points from the bottom left towards the "Download data" button.

ii. File path and download

To download the whole dataset from the database, you may click on the download data button. Clicking on the button will bring a popup asking you to specify the location of your choosing for file storage. You may do so via clicking the “Browse” button and finish with “Ok”. Depending on your internet connection speed, this step may take some time.




The link between “df_traits” and “df_metadata” can be established through the “mea_id” or “met_id” columns or simply by looking at the merged file if you chose to download it. More information on the content of the database can be found in the “information” section of the website, or in the published paper (DOI: 10.1038/s41597-019-0307-z).

II. Downloading a particular set of traits from TOFF

i. Choosing traits

TOFF Extractor allows user to download specific entries regarding traits in the database. For example, one user may download only all the traits related to the morphology of fishes. This can be achieved via the tree element from the interface on the right of the window. Via navigating through tree and clicking on “Add to the list”, users can choose which traits to specify for the download.

TOFFExtractor



Login

Password

☐ Merge traits and metadata files

Download data

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▷ MORPHOLOGY

▷ PHENOLOGY

▷ PHYSIOLOGY

▷ BEHAVIOUR

Definition

Unit

Type

Add trait to list

Remove trait from list

Advanced Download

▷ MORPHOLOGY

▽ PHENOLOGY

▽ Lifespan

Mean life span

Maximum lifespan

▷ Activity period

▷ PHYSIOLOGY

▷ BEHAVIOUR

Definition

The mean lifespan expected

Unit

Months

Type

Continuous, numeric

Add trait to list

Remove trait from list

Mean life span

Advanced Download

ii. File path and download

To download the chosen traits from the database, you may click on the advanced download data button. Clicking on the button will bring a popup asking you to specify the location of your choosing for file storage. You may do so via clicking the “Browse” button and finish with “Ok”. Depending on your internet connection speed, this step may take some time.

More information on the content of the database can be found in the “information” section of the website, or in the published paper (DOI: 10.1038/s41597-019-0307-z).