

Title : Jajuk Specifications		
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Version	Date	Author	Description
0.1	02/09/2003	Bertrand FLORAT	First version
1.0	26/09/2003	Bertrand FLORAT	First stable version

Glossary :

Term	Meaning
File	Physical view of a music track.
Track	Logical view of a music track : maps one or several physical files.
Device	Physical set of tracks like a directory or a remote server.

TODO:

- Update command view with mute button
- Add look and feel and log level options in the parameter view.
- Add option “use directory as album name” in the parameter view.

JAJUK : (Java Jukebox | Just Another Jukebox)

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Perspectives

A view is a window displaying a functional-oriented part of the software : a navigation bar or a tree for instance. A perspective is a set of views sharing the same functional approach of the software : logical, physical, configuration for example.

Jajuk features following perspectives :

- Physical
- Logical
- Configuration
- Statistics
- Help

Note : Default perspective and views disposition are displayed bellow.

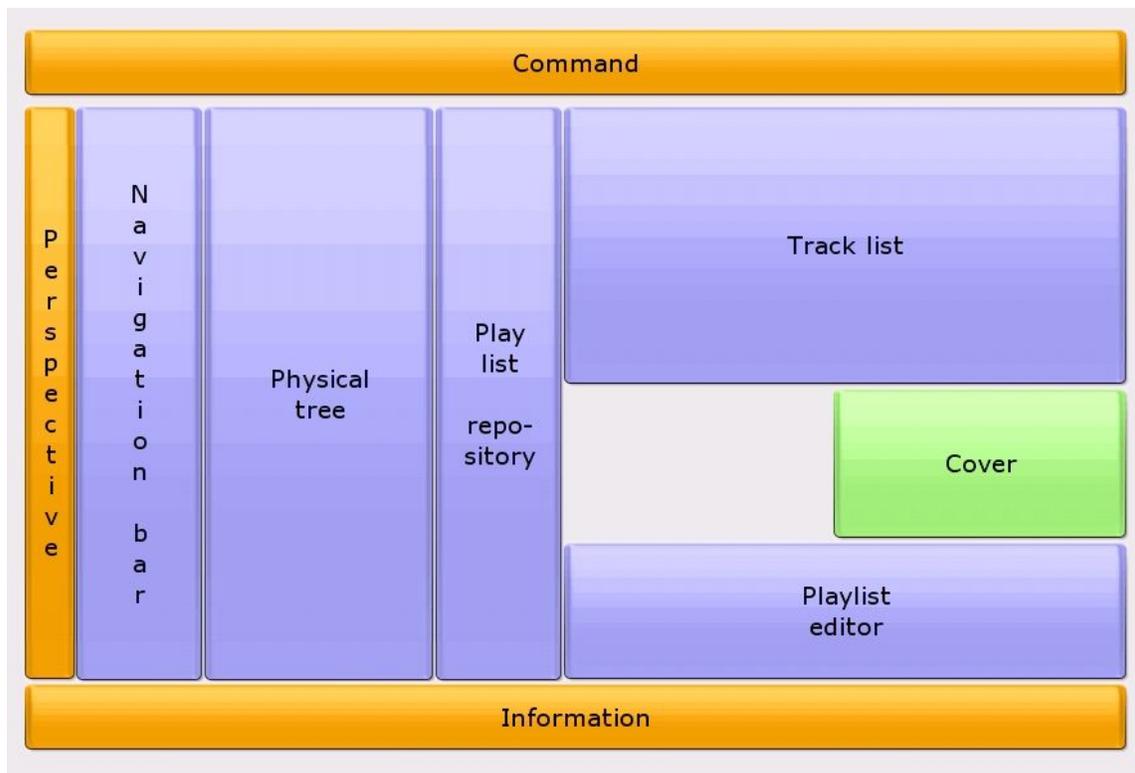
Legend :

- Orange : static views
- Violet : standard views
- Green : conditional views.

Physical

File view of tracks : shows directories, subdirectories as they are found on the physical devices. This perspective contains by default following views (in red, standard views for the perspective) :

- Command
- Navigation bar
- Physical Tree
- Track list
- *Cover (only if available)*
- Playlist repository
- Playlist viewer
- Information
- Perspective selector

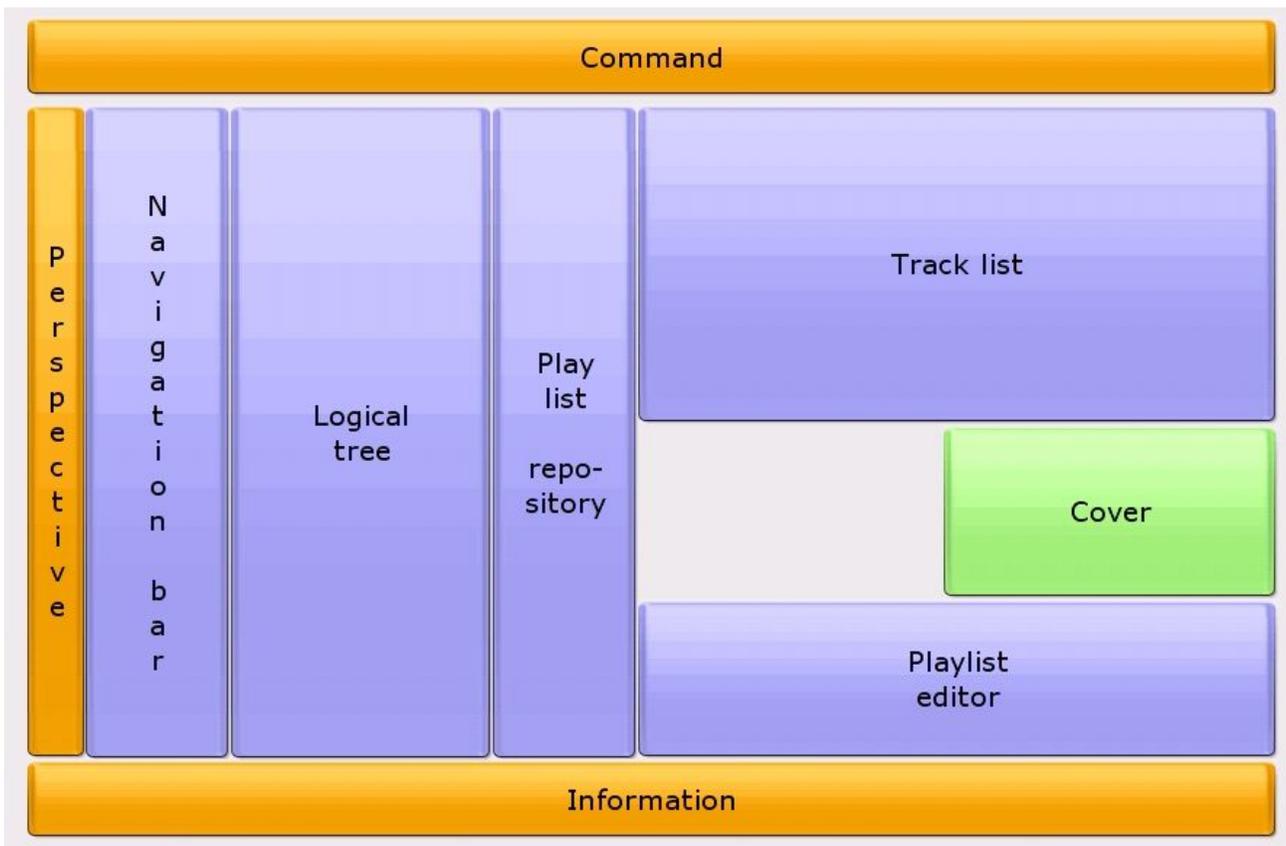


Logical

Meta-data (Style / Author / Album) view of tracks. This information is read from music files meta-tags and are used to build the logical view of files. Of course, this requires that tracks contains such information, otherwise tracks are set as 'unknown' style, author or album. If your music contains correct information, this perspective will be much more comfortable than the physical one because browsing it is easier. Note that a track can 'hide' several identical files located in different devices.

This perspective contains by default following views:

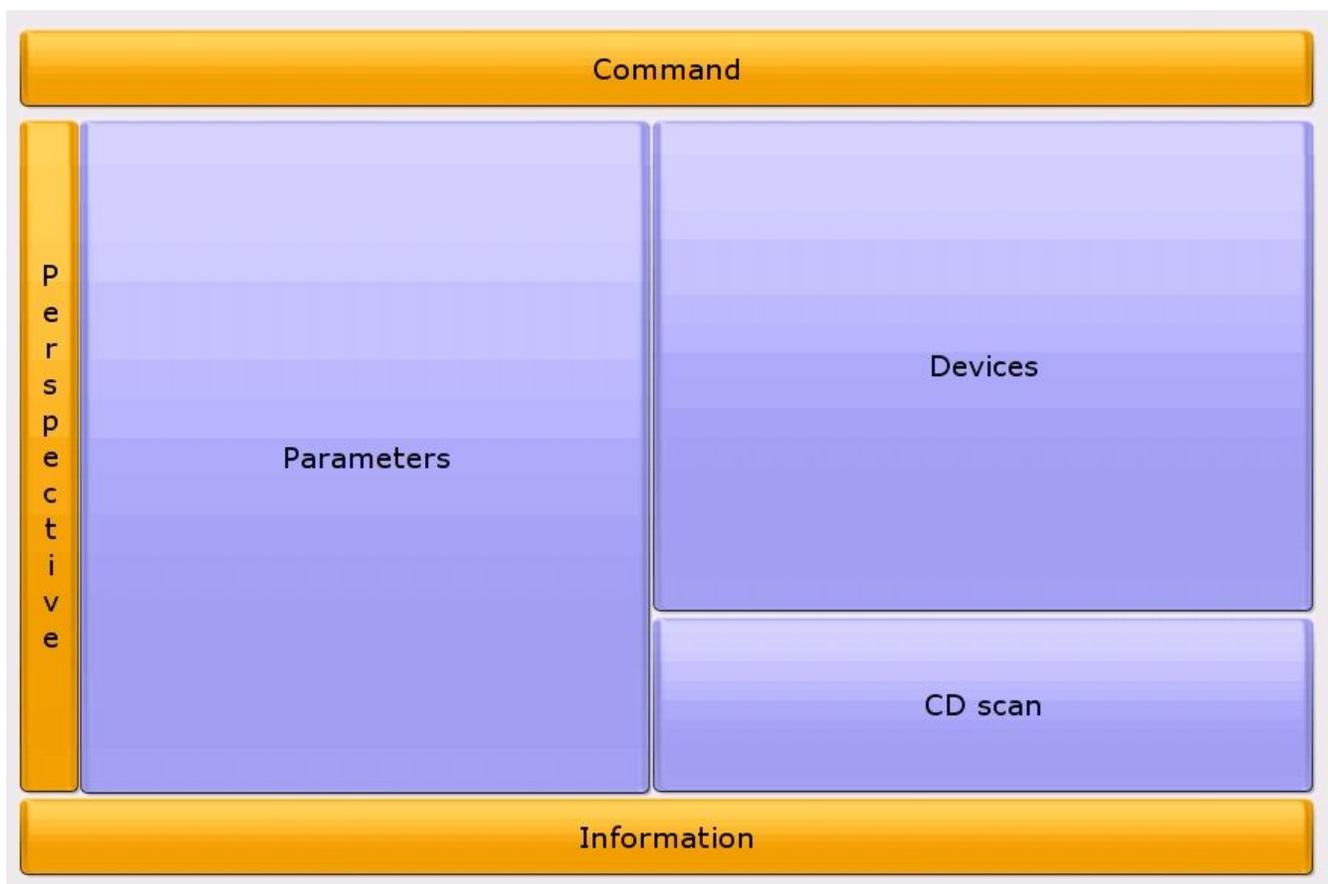
- Command
- Navigation bar
- Logical tree
- Track list
- *Cover (only if available)*
- Playlist repository
- Playlist viewer
- Information
- Perspective selector



Configuration

Here are defined devices you want to access. Contains following views:

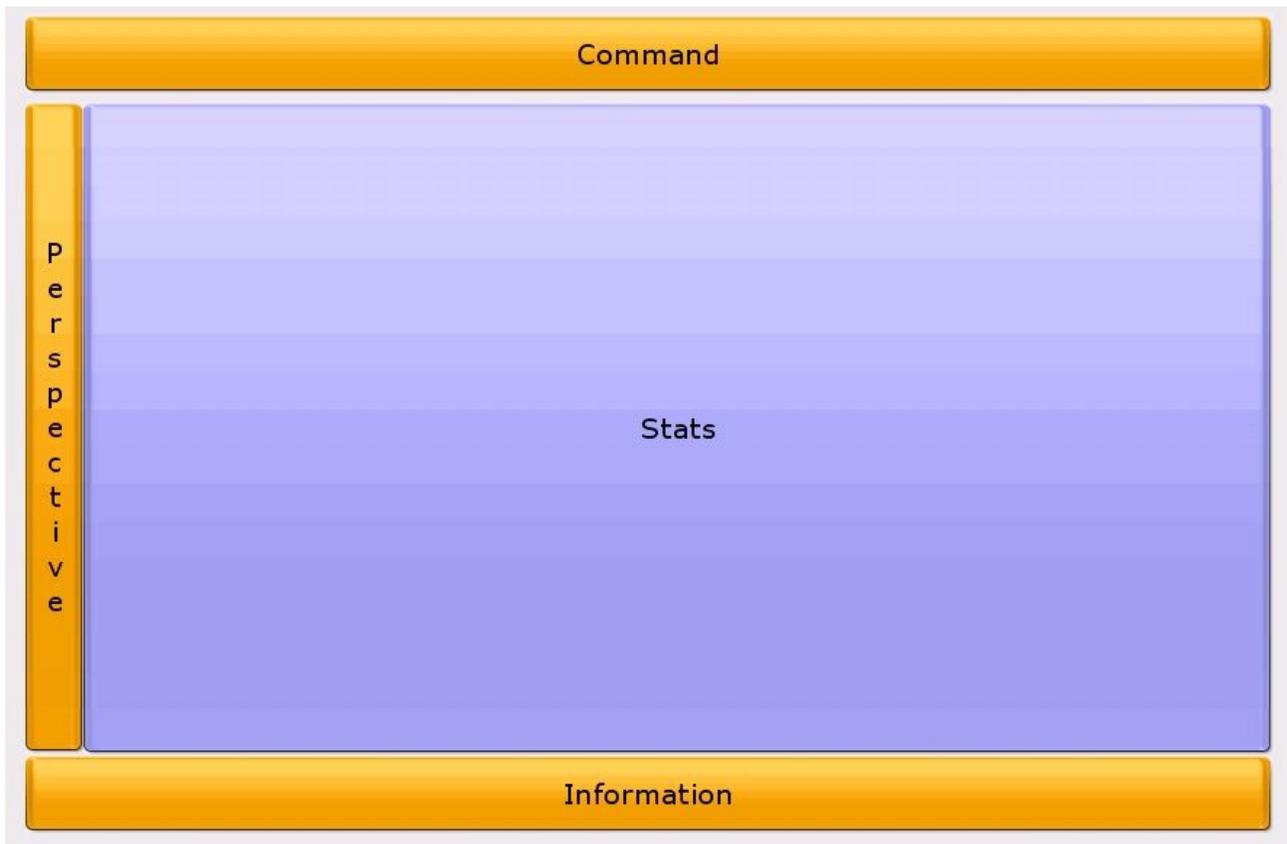
- Command
- Parameters
- Devices
- CD Scanning
- Information
- Perspective selector



Statistics

Shows some eyes-candies facts about your music collection. Contains following views:

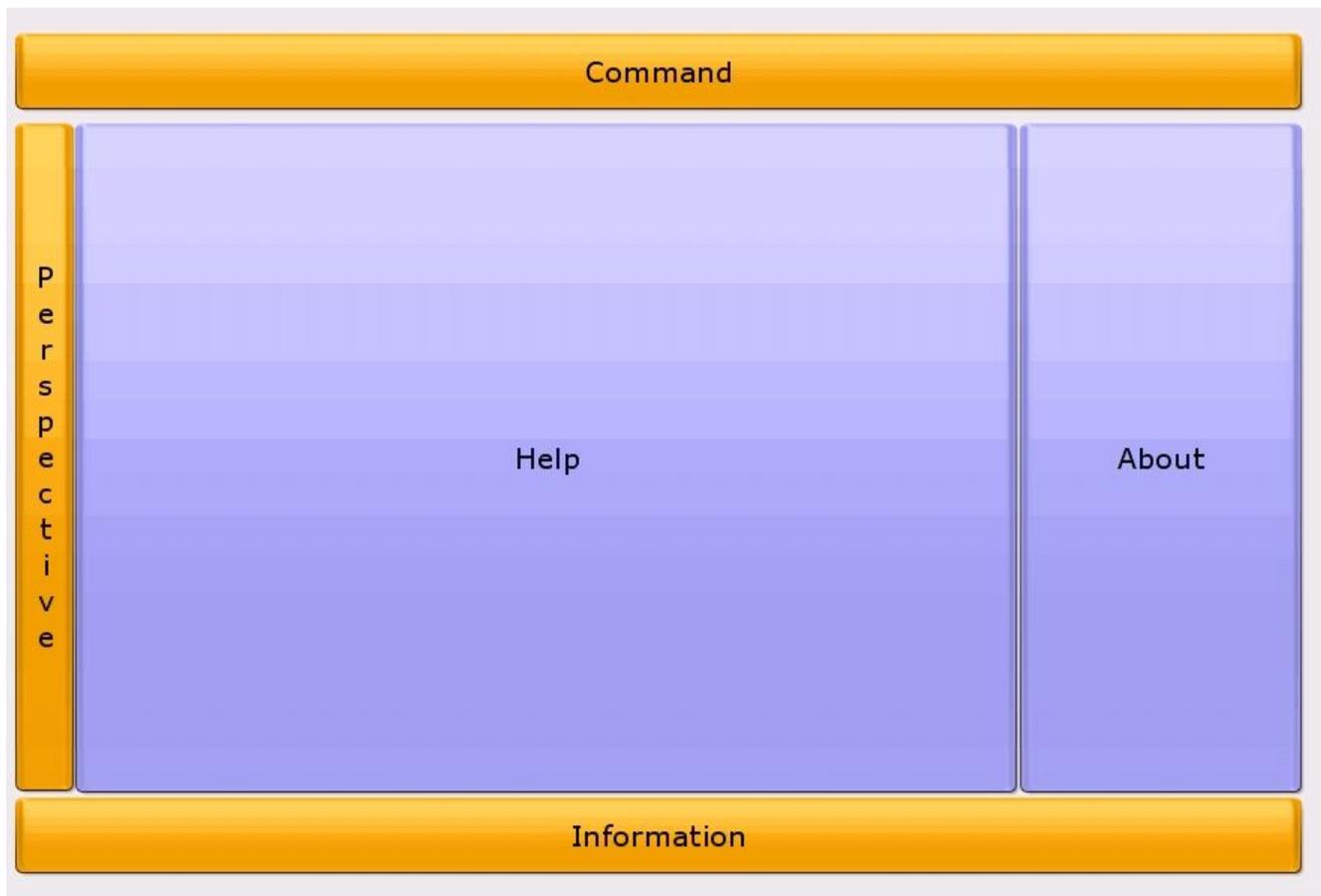
- Command
- **Statistics**
- Information
- Perspective selector



Help

Jajuk online help. Contains following views:

- Command
- **Help contents**
- **About**
- Information
- Perspective selector



Views

There are three kinds of views :

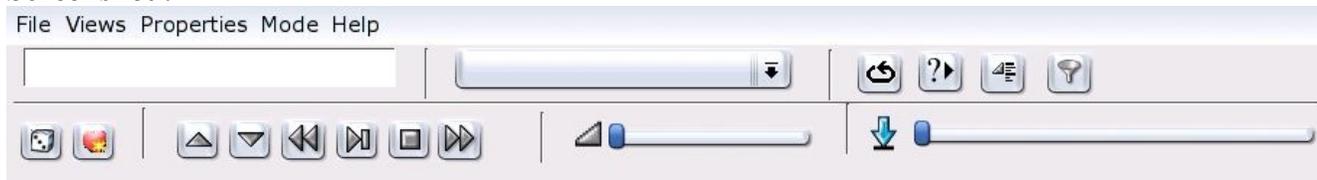
- *Static* views like *command*, *perspective selector*, and *information*. These views are mandatory and found in all perspectives. However, they may change with perspectives .
- *Standard* views like *track list* that are associated with a perspective and can be shown or hidden. A same view can be displayed in several perspectives. They may change in behavior with perspectives (see *track list* for example).
- *Conditional* views like *cover* are similar to standard views but are only enabled in some cases (for example, *cover* is displayed only if a cover is available).

Command

Type: static

Perspectives : All

Screenshot :



Description:

The menu bar contains following sections:

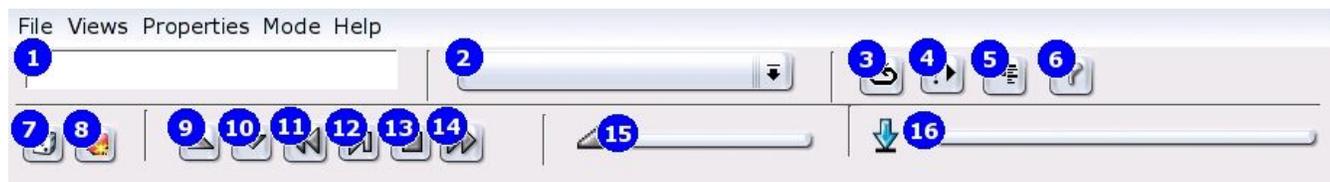
- *File* : related to file access and exiting.
 - *Open* : opens a track or a playlist. Prefer to use navigation bar, trees or track list table.
 - *Quit* : leaves the program.
- *Views* : displays a list of available standard views for the current perspective. Each view can be shown or hidden by a simple click.
- *Properties* : displays the list of available properties of the track list table. Can contain personal properties. Each property can be shown or hidden by simple click. Contains also a *new property* choice to add a property and a *delete property* to delete a property.
- *Mode* : Set default play mode of the current selection. It features :
 - *Repeat selection* (default = off)
 - *Shuffle in selection* (default = off)

- *Continue* : If no repeat, continue to play tracks following the selection. (default = on). If off, the music will stop when reaching selection end.
- *Intro* (default = off) : plays only a part of each track. Offset and length can be set in the parameter view. If selected, the slider (16) used to move into the track is disabled.

Forbidden combinations : repeat + continue.

- *Help* : Help topics.
 - *Contents* : moves to *Help* perspective and displays the help contents view.
 - *About* : moves to *Help* perspective and display the about view.

Functions:



1. Search. in files, directories, author, albums and titles. Dynamic search starts automatically 0,5 sec after typing a letter. Results are displayed in a list. A click in this list launches the track, the directory or the album. If there is only one result, no list is displayed but the item is automatically launched. Results contain only mounted devices. They can contains :
 - Style name
 - Album name
 - Author name
 - Track name
 - Directory name
 - File name
2. History bar, contains any selection you did manually (not shuffle). This history can be limited in duration or cleared in the parameter view.
3. Repeat option, same that Mode/Repeat.
4. Shuffle option, same that Mode/Shuffle.
5. Continue option, same that Mode/Continue.
6. Intro option, same that Mode/Intro.
7. Fast shuffle : launches a shuffle play on the entire collection (only mounted devices).
8. Best of : launches a shuffle play on most rated tracks.

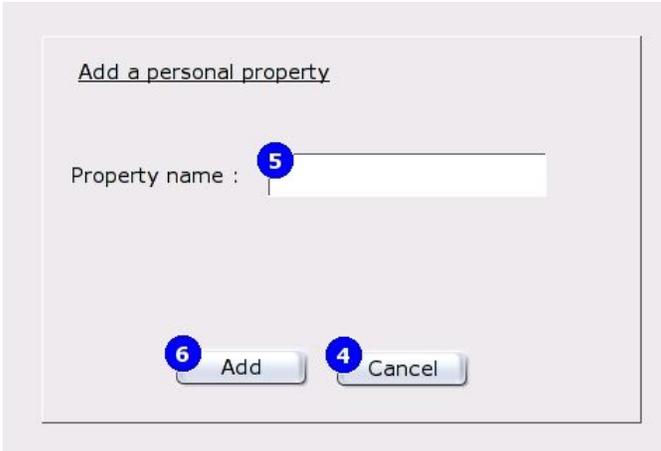
9. Play previous track in selection. The first click restarts the current track.
10. Play next track in selection
11. Fast rewind
12. Play / pause
13. Stop
14. Fast forward
15. Volume
16. Move in current track

Update : We added a mute button.

Personal properties:

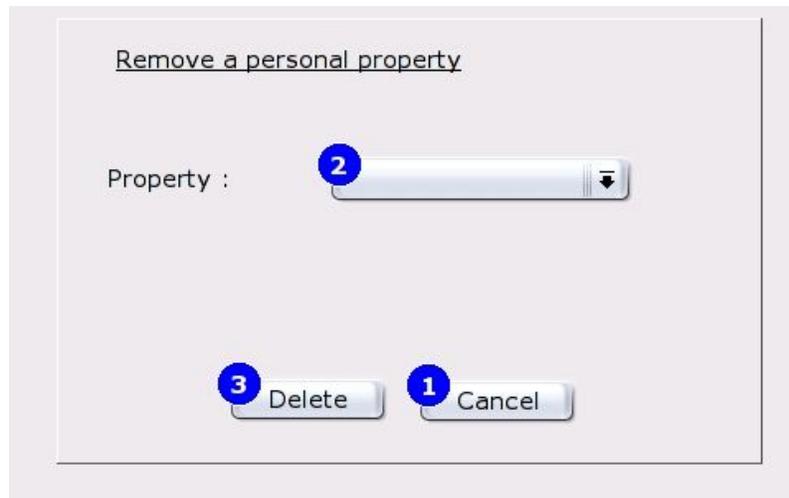
You can add personal properties to use a personal notation system or your own organization system reference for instance. These properties are always editable in the track list table (some standard Jajuk properties are not) and can be set on any collection item : devices, directories, files, playlist files for physical elements and styles, authors, albums, tracks, playlist for logical elements.

To create a new property, select *new property* in the *Properties* menu. Then, a popup require you to set the property name :



The image shows a dialog box titled "Add a personal property". It contains a text input field labeled "Property name :". A blue circle with the number "5" is positioned above the input field. At the bottom of the dialog are two buttons: "Add" and "Cancel". A blue circle with the number "6" is positioned above the "Add" button, and a blue circle with the number "4" is positioned above the "Cancel" button.

To delete a property, select the *delete property* option in the *Properties* menu. Then, a popup ask you to select the personal property to delete :



If you access remote tracks (tracks from another user) with exotic properties set by the tracks owner, the property will be automatically added to your own personal properties but not displayed until you select the property in the list (menu *display properties*). This behavior can be modified using options in the *parameters* view (*configuration* perspective).

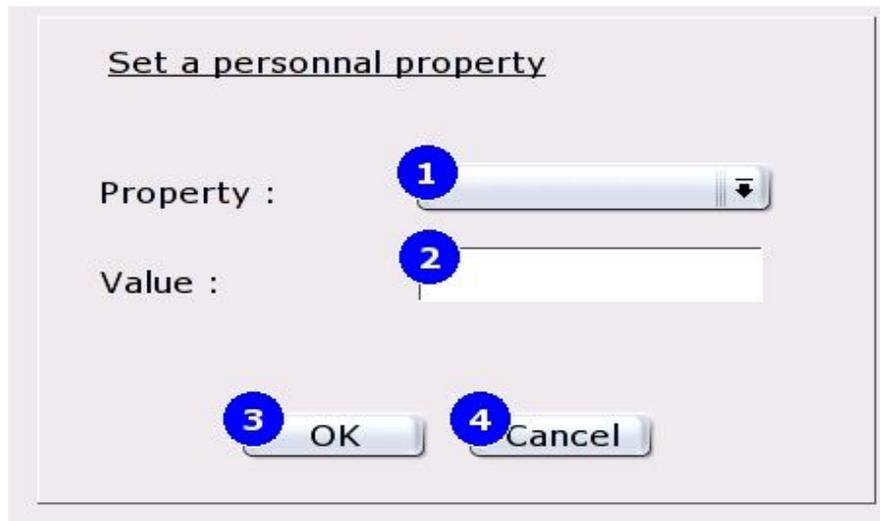
To set your own information to your collection :

Thought the track list:

1. Display your new property by selecting it in the menu *display properties*. Then a new void column will be displayed in the track list table.
2. The column is editable, just select a cell by single clicking on it and type your data.

Through the physical or logical tree:

1. Select contextual menu on a { device, directory, file, playlist file } in physical tree or a {device, style, album, track, playlist } in logical tree and choose *set property*.
2. The Properties editor frame is displayed and you can set the property for the selection :



1. Property choice
2. Value for the selection
3. Commit
4. Cancel

Information

Displays all we you need to know during execution.

Type: static

Perspectives : all

Screenshot :

Messages output	Selection	Current track	Current playlist
some messages	150 items/149Mo	02'30"/06'24"	15'05"/01h14'06"

The panel contains two lines : one with title and explanation about the associated information and one for information itself.

The panel contains four items:

- Message output (actually the larger part of the panel) : contains errors, warnings or any informative messages issued by the system.

- Selection : the meaning of this item (and the title) can change with context. Most of the time, this contains the volume of the selection in Mo and played tracks titles .
- Current track : Contains a progress bar and time played / total of the played track.
- Current playlist : Contains a progress bar of the overall tracks to be played and time played / total.

Perspective selector

Access to perspectives.

Type: static

Perspectives : all

Vertical panel with one icon per perspective. Clicking on a perspective icon will open the associated perspective.

Devices

Control center for devices. A device is a set of tracks. It can be a directory, a remote server, a CD... A device can eventually be synchronized with another one.

Type: standard

Perspectives : Configuration

Screenshot:



Note : Unmounted devices are in gray.

Commands :

1. New device. Opens the device creation dialog box. You can double click on the *New device* device as well.
2. Deletes the selected device(s). Removes any reference to tracks in the device(s). This doesn't delete or alter physical files, just the mapping.
3. Displays properties for the selected device(s). Opens the device properties dialog box.
4. Mounts the selected device(s). Only usable on unmounted devices. Tries to mount the device by checking physical files and asks for a user operation if it fails (case of mounting an unavailable CD

for example). Note that mounted devices are not automatically refreshed.

5. Test the selected device(s) : tests if the device is available. Useful for remote devices.
6. Refresh a mounted device(s). Only available on mounted devices. Scans the device to detect any change in the physical device and updates the collection list if tracks have been deleted or added. This also read tracks meta-data (author, album...) displayed in the logical perspective and recompute playlist hashcodes. Note this is not done automatically because it can be time-consuming for large collections. Here is the refresh box :



- 7: Synchronize a mounted device(s). Only available on mounted devices. If the device is synchronized with another one, starts synchronization following selected mode. Here is the synchronization box:



Contextual menu:

Contextual menu for a device (actions are the same that function buttons above.):

- *Mount*
- *Refresh*
- *Synchronize*
- *Properties*
- *Test*
- *Delete*

Device create dialog box :

Displayed when creating a new device.

Device creation

Device type: 1

Device name: 2

Device URL: 3

Auto mount at startup ? 4

Auto refresh at startup ? 5

Synchronized device ? 6

with: 7

Full synchronization mode 8

Partial synchronization mode 9

If a track is deleted from this device, delete it from source device ? 10

If a track is deleted from source device, delete it from this device ? 11

If a directory is desynchronized from source device, delete it from this device ? 12

13 14

1. *Device type* (mandatory, default = *directory*). Can be :

- *Directory*
- *CD*
- *Music player*
- *Remote*
- *Others* (like USB key, floppy disk...)

2. *Device name* (Optional, default = *URL*) : Enter here the user-friendly name you will give to your device.

3. *Device URL* (mandatory, no default) : This is the path to the device.

Examples:

- [Directory under Unix] : */home/foo/mymusic*
- [Directory under MS Windows] : *d:\mymusic*
- [Remote server] : *10.0.0.3* or *mydomain.myhost*
- [CD under Unix] : */mnt/cdrom/dir1*

- [CD under Ms Windows] : *e:\dir1*

4. *Auto-mount at startup* (Optional, default = on for directories and remote devices only).
5. *Auto-refresh at startup* (Optional, default=off) checkable only if the auto-mount option was selected.
6. *Synchronized device* (Optional, default=off)? Mainly for synchronization of a music player with a directory.
7. *Source device* (mandatory if *Synchronized device* checked, default = *full*). Synchronization modes are :
8. *Full collection* synchronization mode: At the end of synchronization, both devices will contain exactly the same tracks. In this mode, none track would be deleted : indeed, if a track found on any device is not present in the other, it will be copied from the first to the second. Note that this mode ignores the *desynchronization* option on directories to ensure both devices will actually be fully synchronized. If the *desynchronization* option is used, a warning message will be emitted.
9. *Partial collection* synchronization mode : This mode is typically used to synchronize a low disk capacity device (like a music player of 10Go) with a high capacity data warehouse device (like a 20Go directory). By default, all tracks are copied from the source to the destination but the copy can fail because of the lack of space. Then, the user can limit volume by using the *desynchronization* option in physical tree view (in *physical* perspective). Any directory with this option enabled will be ignored during synchronization.
10. *If a track is deleted from this device, delete it from source device ?* (Optional, default=false, only available if the partial synchronization mode is selected). If checked, deleting a track or a directory from this new device will lead to delete it from the source if it exists at next synchronization. Use with care !
11. *If a track is deleted from source device, delete it from this device ?* (Optional, default=false, only available if the partial synchronization mode is selected). If checked, deleting a track or a directory from source device will lead to delete it from this new device. Use with care !
12. *If a directory is desynchronized from source device, delete it from this device ?* (Optional, default=false, only available if the partial synchronization mode is selected). If checked, desynchronizing a directory from source device will lead to delete it (recursively) from this device at next synchronization. Use with care !
13. OK Button.
14. Cancel button.

Physical tree

Used to access tracks or directories.

Type: standard

Perspectives : Physical

Tree hierarchy :

- Devices names.
- Directories names (possibly several levels).
- File names.

Graphical Rules:

- Devices, directories and filename are in gray if unmounted.
- The user can select several devices, directories, or filenames at the same time using CTRL and SHIFT keys.
- Double click on a directory, a file or a playlist file launches it following mode set in *Mode* in *Command* view.

Contextual menus :

For devices:

- *Play* : plays all tracks found on this device according to mode set in *Mode* in *Command* view.
- *Play shuffle* : plays randomly all tracks found on this device.
- *Play repeat* : plays in loop all tracks found on this device.
- *Mount* : Mount the device.
- *Create playlist* : create recursively a playlist in each directories with music files. Playlists are created with local mapping to mp3 in the same directory (no explicit path). This function is not available for remote devices.
- *Refresh*: rescan all tracks to detect removed or new ones.
- *Synchronize* : Start synchronization as described previously.
- *Test* : 'Ping' the device to check it is available.
- *Rename* : Rename the device.
- *Delete* : remove the device from the collection. Only logical, doesn't alter actual files.
- *Set property* : [multiple selection supported]. Set a personal property to the selection.
- *Properties* : displays properties about the device. Device name and personal properties are editable.

For directories:

- *Play* : plays all tracks found in this directory according to mode set in *Mode* in *Command* view.
- *Play shuffle* : plays randomly all tracks found in this directory.
- *Play repeat* : plays in loop all tracks found in this directory.

- *Refresh* : performs a refresh (files scan) for this directory and sub-directories.
- *Desynchronize* : to be used on source device of a synchronization. It notifies the synchronization process to ignore recursively this directory and its sub-directories.
- *Create playlist* : creates recursively a playlist in each found directory with music files. This function is not available for remote directories.
- *Rename* : renames physically the directory.
- *Copy* : copies the entire directory and sub-directories.
- *Cut* : cuts the entire directory and sub-directories.
- *Paste* : pastes the entire directory and sub-directories into selected destination directory.
- *Delete* : deletes the entire directory and sub-directories.
- *Set property* : [multiple selection supported], sets a personal property to the selection.
- *Properties* : displays properties about the directory and its device. Directory name and personal properties are editable.

For a file :

- *Play* : plays the track according to the mode set in *Mode* in *Command* view.
- *Push* : queues the track into the *new* playlist
- *Copy* : copies the file.
- *Cut* : cuts the file.
- *Paste* : pastes the file into selected directory.
- *Rename* : renames the file.
- *Delete* : deletes the file.
- *Set property* : [multiple selection supported], sets a personal property to the selection.
- *Properties* : displays all information available about this file, its parent directory, its device and its associated track, author, album and style. File name and personal properties are editable.

For a playlist file :

- *Play* : plays the playlist according to mode set in *Mode* in *Command* view.
- *Play shuffle* : plays randomly the playlist.
- *Play repeat* : plays the playlist in loop.
- *Refresh* : performs a refresh (files scan) for this directory and sub-directories.
- *Rename* : renames physically the playlist file.
- *Copy* : copies the playlist file.
- *Cut* : cuts the playlist file.

- *Paste* : pastes the playlist file.
- *Delete* : deletes the playlist file.
- *Set property* : [multiple selection supported], sets a personal property to the selection.
- *Properties* : displays properties about the playlist, its directory and its device. Playlist file name and personal properties are editable.

Logical tree

Used to access tracks with meta-data information.

Type: standard

Perspectives : Logical

Tree hierarchy:

(always same levels):

- Styles
- Authors
- Albums
- Tracks

Graphical Rules:

- The same albums can be physically found on several devices but will be displayed only once in this view.
- Albums not found in any mounted device are in gray.
- The user can select several styles, authors, albums or tracks at the same time using CTRL and SHIFT keys.
- Double click on an album or a track launches it following mode set in *Mode* in *Command* view.

Contextual menus :

For Styles:

- *Play* : plays all tracks of this style according to mode set in *Mode* in *Command* view.
- *Play shuffle* : plays randomly all tracks of this style .
- *Play repeat* : plays in loop all tracks of this style.
- *Delete* : deletes all tracks and associated files for this style.
- *Set a property* : [multiple selection supported], sets a personal property to the selection.

- *Properties* : displays all properties for this style. Personal properties are editable.

For Authors:

- *Play* : plays all tracks for this author according to mode set in *Mode* in *Command* view.
- *Play shuffle* : plays randomly all tracks of this author.
- *Play repeat* : plays in loop all tracks of this author.
- *Delete* : deletes all tracks and associated files for this author.
- *Set a property* : [multiple selection supported], sets a personal property to the selection.
- *Properties* : displays all properties for this author and its style. Personal properties are editable.

For Albums:

- *Play* : plays all tracks of this style according to mode set in *Mode* in *Command* view.
- *Play shuffle* : plays randomly all tracks of this album .
- *Play repeat* : plays in loop all tracks of this album.
- *Delete* : deletes all tracks and associated files for this album.
- *Set a property* : [multiple selection supported], sets a personal property to the selection.
- *Properties* : displays all properties for this album, its author and its style. Personal properties are editable.

For Tracks:

- *Play* : plays the track according to mode set in *Mode* in *Command* view (if a same track has two same files, best quality is launched)
- *Push* (queues it the *new* playlist)
- *Delete* : Deletes this track and associated files.
- *Set a property* : [multiple selection supported], sets a personal property to the selection.
- *Properties*. displays all properties for this track, its album, its author and its style. Displays all files associated with the track and there properties, properties of there parent directory and device.

Tracks List

Shows all tracks and their properties in the collection in any device.

Type: standard

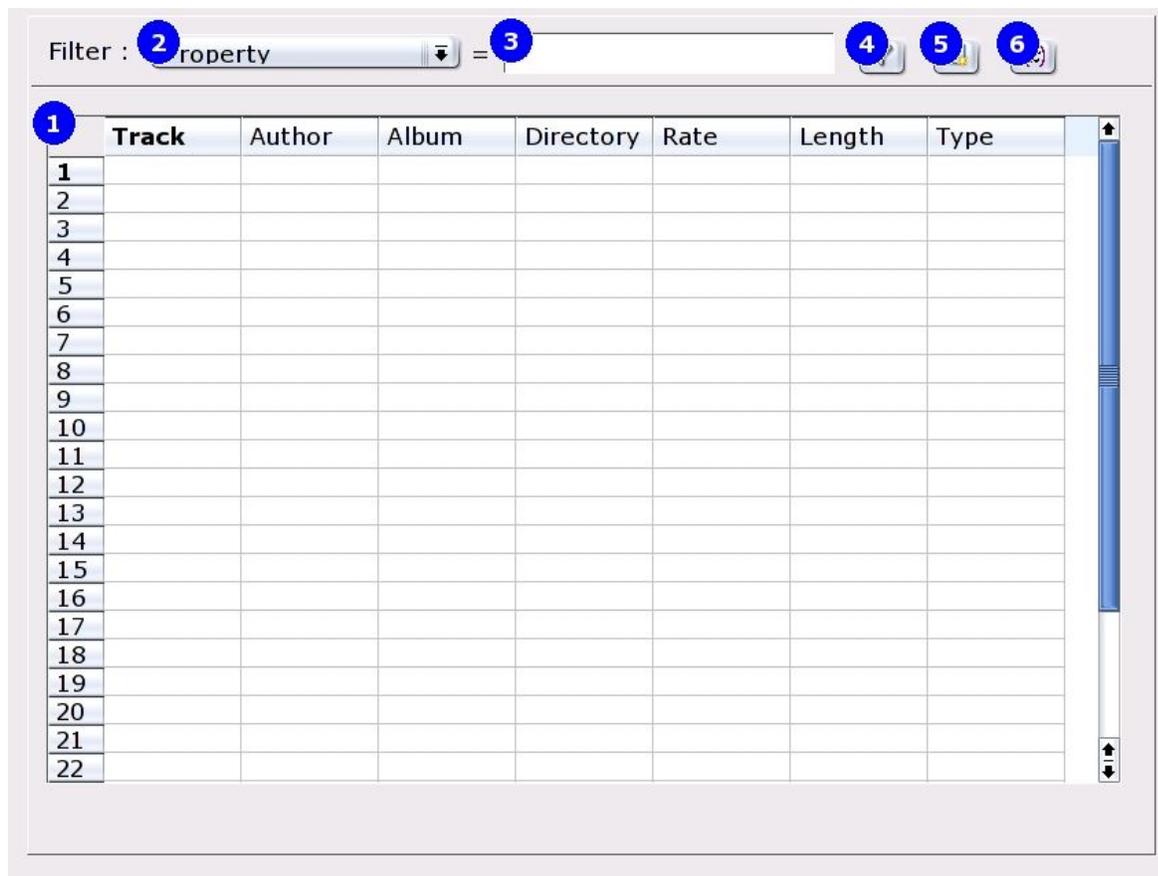
Perspectives : Physical, Logical

Screenshot:

Filter : =

	Track	Author	Album	Directory	Rate	Length	Type
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

Functions:



1. Table with selected properties as columns.
2. Combo box to select property to filter.
3. Enter property value for which you want to filter.
4. Launches filter.
5. Clears all filters.
6. Launches a complex filter typed in property value text field.

- The table-displayed columns can be chosen using the *Properties* menu in the *command* view.
- The list can be filtered in two ways :
 1. Simple filter : select a property to filter, enter wanted value in the text field and launch the filter by clicking on the filter launch button. You can use any regular expression (*, ? ...).
 2. Complex filter : the property combo box is not used in this case. Just type in the text field filter you want with with sample format : `(property1=value1 & property2=value2) | (property3=value3 & property4=value4)` . You can use boolean operators :
 - & (and)
 - | (or)

Then, click on the filter launch button. Of course, values can be any regular expression as well.

Available Jajuk properties columns in physical perspective:

In this perspective, each file is displayed in one row, so you can get several times the same track associated with multiple files in multiple devices.

- ✓ *Track* : Meta-data track name if present or treated file name otherwise (underscores dropping, case...). Editable and a change sets track name meta-data for this file only.
- ✓ *File name*: File name. Editable and a change renames physically the file.
- ✓ *Author* : Meta-data author name if present. Editable and a change sets author meta-data for this file.
- ✓ *Album* : Meta-data album name if found or treated directory name otherwise. Editable and a change will set meta-data album name for this file.
- ✓ *Directory* : Name of the file parent directory. Not editable (use physical tree to rename a full directory).
- ✓ *Quality* : Sound quality (most of the time, it is the compression level like 192 k). Not editable.
- ✓ *URL* : Path this track can be <file:///path/file> for local files or <http://aserver/file> for remote files. Not editable.
- ✓ *Size* : Track file size in Kb. Not editable.

- Tracks, directory and file name are mandatory and cannot be hidden.
- Default configuration features :

Track | Album | Author | Length | Style | Directory | File name | Rate

- Note : to set a property to multiple files, a faster way is to select multiple files in the physical tree and to set a property (right click, *set property*).

Available Jajuk properties columns in logical perspective:

In this perspective, one track can 'hide' several identical files on multiple devices.

- ✓ *Track* : Meta-data track name if present or treated file name otherwise (underscores dropping, case). Editable and a change sets track name meta-data for all file associated with this track.
- ✓ *Author* : Meta-data author name if present, 'unknown' otherwise. Editable and a change sets author meta-data for all files associated with this track.
- ✓ *Album* : Meta-data album name if found or treated directory name otherwise. Editable and a

change sets meta-data album name for all files associated with this track.

- Tracks, authors and album are mandatory and cannot be hidden.
- Default configuration features :
Track | Album | Author | Length | Style | Rate
- Note : to set a property to multiple tracks, a faster way is to select multiple tracks in the logical tree and to set a property (right click, *set property*).

Available Jajuk properties columns in both perspectives:

These properties are identical in both perspectives because all file associated with a track always have these values identical.

- ✓ *Hits* : number of times the track was listen since Jajuk installation.
- ✓ *Rate* : $1000 * \text{number of times the track was listen divided by number of weeks since the track has been added to the collection.}$
- ✓ *Length* : Track length.
- ✓ *Type* : Track type (mp3, ogg...)
- ✓ *Year* : Track year if found in meta-data, void otherwise.
- ✓ *Style* : Track style if found in meta-data, void otherwise.

Using the table:

- A single click on a row only select a file but do not launch it. When selected, it is possible to access to this track contextual menu by right clicking.
- A double click on a row launches the file or the track. In logical perspective, Jajuk launches best quality file if the track is associated with several ones.
- Files in unmounted devices are in gray. When selecting such a track, Jajuk proposes user to mount the needed device. In the logical perspective, the track is in gray only if none of associated files are in a mounted device, then Jajuk cannot propose to mount any device.
- Contextual menu features:
 - *Play* : launches the tracks according to general play mode (*Mode* in the *command view*).
[multiple selection supported] : Jajuk plays all selected tracks according the selection order.
 - *Play repeat* : Play the tracks in loop. [multiple selection supported] : Jajuk plays in loop all selected tracks according the selection order.
 - *Push* : add the track in the *new* playlist pool. [multiple selection supported] : Jajuk stores all selected tracks according the selection order.

- *Set property* : [multiple selection supported]. Sets a personal property to the selection.
- *Properties* : displays the property popup with all properties for the selected track.

Navigation bar

The navigation bar is used to navigate in the collection with buttons.

Type: standard

Perspectives : Physical, Logical

Screenshot:



Commands:

- Button 1 (..) is use to come back in previous step.

- Button 2 (Play all) launches according to selected play mode all files or tracks found in the current step (each track or sub-item is displayed as a button like button 6 & 7). If none track is present in the current step, jujuk assumes you mean to play recursively all tracks in levels bellow.
- Button 3 (Play all shuffle) : same behavior that Play all but play tracks randomly.
- Button 4 (Play all repeat) : same behavior that Play all but play tracks in a loop.
- Button 5 (Sub-directories) only appear in the physical perspective in a directory which contains tracks and sub-directories at the same time. If a directory only contains sub-directories, they are displayed as buttons.
- Buttons 6 & 7 are track samples. A selection launches them.

Rules:

- Unmounted devices are ignored.
- In any step, if number of item to display is <15, they are immediately displayed as buttons. Otherwise, an intermediate step is added with 36 buttons from 'A' to 'Z' and '0' to '9' to limit item number. If item number is always too high, another intermediate step with buttons 'AA' to 'AZ' and 'A0' to 'A9' is added etc...
- The name of the current step is always displayed at the top of the view. It can be current device, directory, style, author or album.
- If a level contains only one sub-item, it is automatically selected.

Playlist repository

Shows all known playlists in mounted devices and in Jujuk directory (default target of the new playlist option).

Type: standard

Perspectives : physical and logical

Linked with : Playlist editor view

Screenshot :

Playlists are displayed as icons.



Special playlists

New and *bookmarks* are not regular playlists.

- The *new* playlist is a utility item with the ability to create dynamical playlist. It can be used as it to pool tracks in advance when playing. Then, it can be saved and become a regular playlist.
- The *bookmarks* playlist is used to store tracks you prefer and provides a fast access to them.

Behavior:

- A single click on a playlist set the focus on it in the playlist editor. A double click launches the playlist.
- The playlist file name is displayed under the icon.
- Playlists are listed in the alphabetical order.
- In the physical perspective, all playlist files found on any devices are displayed, so one same playlist can be shown several times.
- In the logical perspective, only one specimen of a same playlist can be displayed. If it is altered, modifications are propagated on each associated physical playlist file when saving it. When launched, Jajuk simply choose the first available playlist file to play.
- Note that Jajuk doesn't try to analyze playlist contents. Some playlist can map files out of the jujuk devices scope. In this case, these files - if available - are simply played like any referenced file.

- The user can add tracks to the *new* playlist or any regular one by drag and drop from physical/logical tree or track list table. Caution : the playlist maps files, so if you create the playlist by dragging & dropping a track from logical perspective, Jajuk cannot assume all files will be from the same device and this **may** lead to problem if devices status change. To get sure to map a particular file, please use physical perspective.
- If a track is added in the *new* playlist when no tracks are played at all, this track is then played at the moment. If tracks launched with others views (trees, table, navigation bar...) are played at this time, the playlist doesn't start until the user explicitly requires it.
- If the playlist contains a not playable track for some reasons (in a unmounted or out-of-date device, corrupted...) it is simply ignored and an error message is issued in the *information* view.
- Playlists are stored in m3u format and can contain remote files with HTTP remote urls like http://a_server/a_directory/a_file.mp3

Contextual menu :

- *Play* (launches the playlist)
- *Edit* : refresh the playlist editor view with this playlist details.
- *Save* (saves changes on regular playlists , not usable with *new* and *bookmarks* playlists). When closing jajuk, *bookmarks* playlist is saved automatically and *new* playlist is cleared.
- *Save as...* (saves changes using a specified file name). Can be used as well with *new* and *bookmarks* playlists.
- *Delete* (deletes physically this playlist, not usable with *new* or *bookmarks* playlists). If used in the logical perspective, deletes all associated playlist files. Use the same confirmation message than for a track (you can configure the confirmation options in the *parameters* view).
- *Properties* (displays information about this playlist or this playlist file : tracks number, size, personal properties...).

Playlist editor

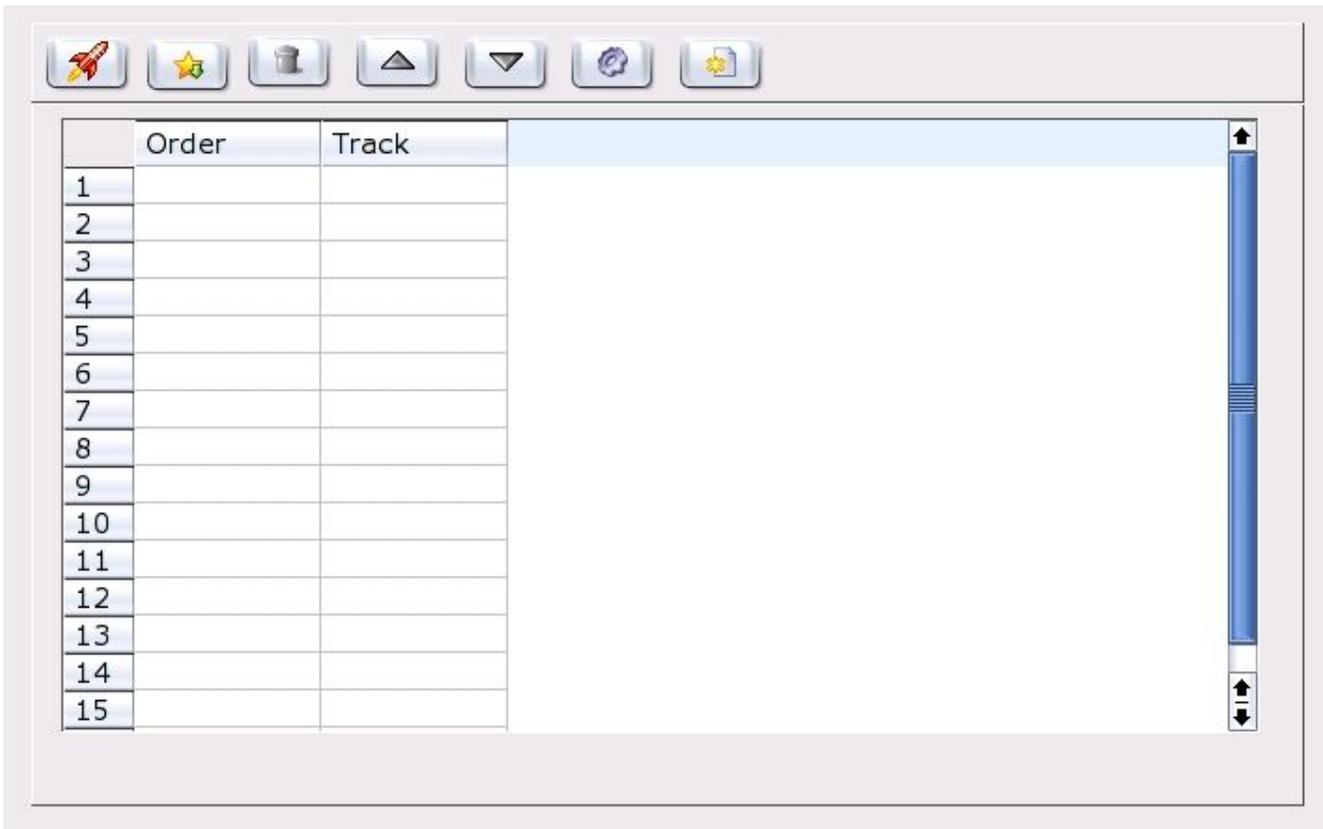
Used to manage tracks in a playlist. This view is only about contents of a playlist. General actions on the playlist like *save* must be done with playlist repository view.

Type: standard

Perspectives : physical and logical

Linked with : Playlist repository view

Screenshot :



Icons are:

- *Play* : plays the selected playlist.
- *Add* : add a file with a file selector. Default directory for the file chooser is the own playlist directory. Advice : Prefer to drag and drop files or tracks from *physical / logical trees* or *track list*, it's much easier.
- *Remove* : removes a file from playlist..
- *Up* : increases sequence number of a file. It will be played earlier.
- *Down* : decreases sequence number of a file. It will be played later.
- *Current* : displays current (played) playlist (indeed, a user can only select another playlist only to watch its contents using the *Edit* contextual command in the *playlist repository* view).
- *Clear* : voids the playlist.

Behavior :

- Already played files are in gray.
- Changes in playlist organization are taken into account during playing, even without saving it. However, files added before the current played file will be ignore for this play.

- Files from trees can be added to the playlist by drag and drop.
- A simple click on a file select it. A double click launches it (all previous files are then in gray).

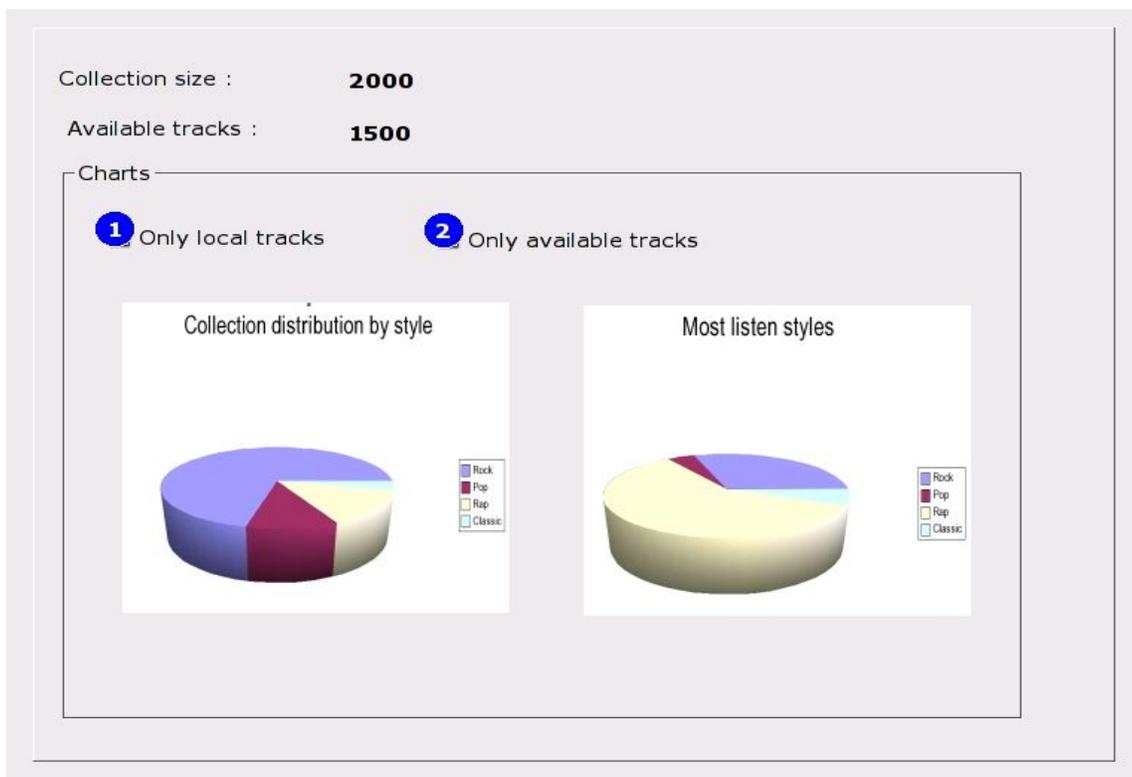
Statistics

Show various facts about your collection.

Type: standard

Perspectives : Statistics

Screenshot :



Displays :

- Collection size (total with remote, CDs...)
- Available tracks : only tracks you can access right now (not those in unmounted devices).
- A chart with collection distribution by style.
- A chart with most listen styles (only those selected, not shuffle). Every track you listen goes in history and this chart displays this history.

Behavior :

1. *Only local tracks* : If selected, both charts only display local tracks (not those on remote computers).
2. *Only available tracks* : If selected, both charts only display available tracks.

Both options can be selected at the same time.

- Note that the Statistics view only display tracks, not files. A track can 'hide' several files on various devices but we consider than counting duplicate files is not pertinent.

CD Scanner

Fast CD scanning interface to add CD-ROM files into your collection.

Type: standard

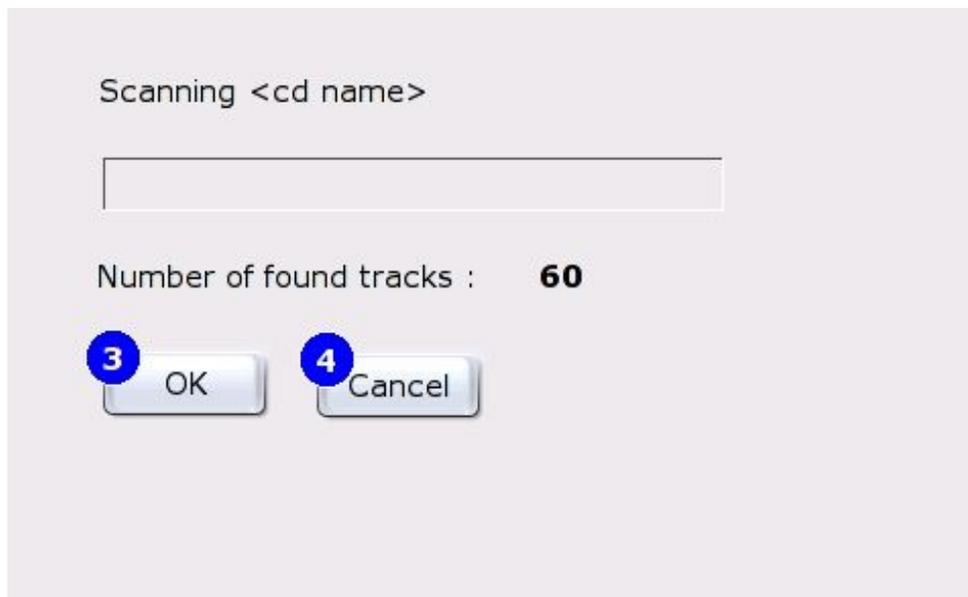
Perspectives : Configuration

Screenshot :



- Type the CD user-friendly name in field 1 (something like *CD4* or *CD_JAZZ* for example)
- Launch the scanning by pressing 'Scan' button (field 2). If used under a Unix OS (like Gnu/Linux), Jajuk will read the mount point specified in *parameters* view. If no file or directories are found, it will assume the CD is not mounted and will try to do so. Then, the CD will be unmounted and ejected after the scan to be ready for the next CD.

During the scan, we display this frame :



- If the OK button (3) is pressed, the CD is unmounted and ejected so the user is ready for next scan. The found tracks are actually added into the collection.
- If the Cancel button (4) is pressed, the CD is unmounted and ejected and all the scan information is lost.

Parameters

Jajuk options and settings.

Type: standard

Perspectives : Configuration

Screenshot :

The screenshot shows the Jajuk application settings dialog box. It is organized into several sections:

- Paths:** Contains a text field for "CD root directory" (1).
- History:** Contains a text field for "Play history time to live (days)" (7) and a "Clear history" button (8).
- Start:** Contains a "When starting, play :" label and a list of options: "Nothing" (9), "Last track" (10), "Shuffle" (11), and "Specified file" (12). The "Specified file" option is accompanied by a CD icon (13).
- Confirmations:** Contains a checkbox for "Ask before deleting a file ?" (14).
- Options:** Contains several settings: "Display unmounted devices ?" (2), "Restart when reaching end of collection ?" (3), a "Language" dropdown menu (4), "Intro beginning position (%)" (5), and "Intro length (sec)" (6).
- P2P:** Contains "Share tracks ?" (15), a "Password" text field (16), "Add remote properties ?" (17), and "Hide personal properties ?" (18).

At the bottom of the dialog are two buttons: "OK" (19) and "Reset to default" (20).

Paths

1. *CD mount directory* (default : /cdrom on Unix and E:\ under MS Windows.) : CD mount point used to show Jajuk where to access music CDs.

Options

2. *Display unmounted devices* (default : yes.). Check it if you want to see unmounted devices in the physical perspectives. If selected, unavailable tracks like tracks on CDs are displayed in gray and trying to launch such a track will simply require you to insert the CD.
3. *Restart when reaching end of entire collection* (default=yes). If selected, restarts entire collection when reaching the very end. It works only when the *continue* play option is set.
4. *Language* (default : English). Select your language if available.
5. *Intro beginning position* (default = 0). Used for the intro option : set the beginning position for the track extract : can be 0 (default) to 99.
6. *Intro length* (default = 20). Sets the length in seconds of the track extract. Must be >0 sec. If this length is longer than the actual file one, the file is fully played and this option is ignored.

History management

7. *History time to live* (default = -1). If needed for some reasons, you can limit the age of the listening history. 0=no history, -1=infinite.
8. *Clear history*: Clear history bar.

Starting

9. When starting, play (default = shuffle):
 - 10.*Nothing*: No music at all when starting Jajuk.
 - 11.*Last track*: Replays last track you selected yourself (not shuffle) during previous sessions.
 - 12.*Shuffle*: Shuffle all over available tracks.
 - 13.*Specified file*: Select a track you want to listen at each Jajuk start.

Confirmations

- 14.*Ask before deleting a file from a device* (default = true). Asked when deleting a file, a track, a playlist or a playlist file.

Peer to Peer

- 15.*Share your tracks* (default = no). If checked, a basic HTTP server is started on your machine and some remote machine can access the music on this box. This feature is mainly designed for Intranet purposes in order to share music on a common server box.
- 16.*Password* (default = no password, user cannot access your box until you set it). If shared, users will have to enter a password to access your box...
- 17.*Add remote properties* (default = yes). If selected, personal properties on a remote collection will be added to yours but not visible in track list until you select it.
- 18.*Hide personal properties* (default = no). If selected, remote peers cannot get your personal properties.

Help

The fine manual (RTFM).

Type: standard

Perspectives: Help

Just display the manual in HTML.

About

Information about the running version.

Type: standard

Perspectives: Help

Display various messages with icon, build version, date, authors...

Cover

Just displays a cover if found in the directory.

Type: Conditional

Perspectives: Physical, logical

Displays an image if found in the directory of the currently played file.

In the logical perspective, the view displays a cover for an album if found in any physical directories associated with the album.