The Konsole Handbook

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Abstract

Konsole is KDE’s terminal emulator.
Chapter 1

Introduction

1.1 What is a terminal?

Konsole is an X terminal emulator, often referred to as a terminal or a shell. It emulates a command line interface in a text only window.

Konsole typically runs a command shell, an application that executes commands that you type. The shell the Konsole runs depends on your account settings. Consult your operating system documentation to know what the shell is, how to configure it and how to use it.

1.2 Scrollback

Konsole uses the notion of scrollback to allow users to view previously displayed output. By default, scrollback is on and set to save 1000 lines of output in addition to what is currently displayed on the screen.

As lines of text scroll off the top of the screen, they can be reviewed by moving the scroll bar upwards, scrolling with a mouse wheel or through the use of the Shift+Page Up (to move back), Shift+Page Down (to move forward), Shift+Up Arrow (to move up a line) and Shift+Down Arrow (to move down a line) keys.

The amount of scrolling using Shift+Page Up/Down can be switched between half and full page in the Scrolling tab of the profile configuration window (use Settings → Edit Current Profile... to open this window).

1.3 Profiles

Profiles allow the user to quickly and easily automate the running of common commands. Examples could include:

- ssh into another machine
- starting an irc session
- use tail to watch a file

All new and changed profiles are saved in the user’s local home folder in $XDG_DATA_HOME/konsole.

Procedure to create a new profile:
1. Click on the menu entry **Settings → Manage Profiles...**

2. Switch to the **Profiles** page.

3. Click on the button **New Profile...**

4. Fill in the first entry with a name. This is the name that will show in the menu, and will be the default label instead of **Shell** when you start a session of this type.

5. Enter a command just as you normally would if you opened a new shell and were going to issue that command. For our first example above, you might type `ssh administration`.

6. On the other tabs of the dialog, configure this session’s appearance. You can configure a different font, color scheme, $TERM type and many other settings for each session.

7. Press the **OK** button. The new session is now available in the **Manage Profiles...** dialog.

### 1.4 Mouse Buttons

This section details the use of the mouse buttons for the common right handed mouse button order. For the left handed mouse button order, swap left and right in the text below.

**Left**

All left mouse button clicks will be sent to a mouse-aware application running in Konsole. If an application will react on mouse clicks, Konsole indicates this by showing an arrow cursor. If not, an I-beam (bar) cursor is shown.

Holding the left mouse button down and dragging the mouse over the screen with a mouse-unaware application running will mark a region of the text. While dragging the mouse, the marked text is displayed in reversed color for visual feedback. Select **Copy** from the **Edit** menu to copy the marked text to the clipboard for further use within Konsole or another application. The selected text can also be dragged and dropped into compatible applications. Hold the **Ctrl** key and drag the selected text to the desired location.

Normally, new-line characters are inserted at the end of each line selected. This is best for cut and paste of source code, or the output of a particular command. For ordinary text, the line breaks are often not important. One might prefer, however, for the text to be a stream of characters that will be automatically re-formatted when pasted into another application. To select in text-stream mode, hold down the **Ctrl** key while selecting normally.

Pressing the **Ctrl** and **Alt** keys along with the left mouse button will select text in columns. Double-click with the left mouse button to select a word; triple-click to select an entire line.

If the upper or lower edge of the text area is touched while marking, Konsole scrolls up or down, eventually exposing text within the history buffer. The scrolling stops when the mouse stops moving.

After the mouse is released, Konsole attempts to keep the text in the clipboard visible by holding the marked area reversed. The marked area reverts back to normal as soon as the contents of the clipboard change, the text within the marked area is altered or the left mouse button is clicked.

To mark text in a mouse-aware application (Midnight Commander, for example) the **Shift** key has to be pressed when clicking.

**Middle**

Pressing the middle mouse button pastes text currently in the clipboard. Holding down the **Ctrl** key as you press the middle mouse button pastes the text and appends a new-line. That is convenient for executing pasted command quickly, but it can be dangerous so use it with caution.
NOTE
If you have a mouse with only two buttons, pressing both the left mouse button and right mouse button together emulates the middle mouse button of a three button mouse.

If you have a wheel as the middle button, rolling it in a mouse-unaware program will move Konsole’s scrollbar.

Right
These items appear in the menu when the right mouse button is pressed:

- Copy
- Paste
- With a text selection a submenu Search for with a list of the preferred Web Shortcuts and an option to configure web shortcuts.
- Open File Manager
- Set Encoding
- Clear Scrollback
- Adjust Scrollback...
- Show Menu Bar, only when the menubar is hidden
- Switch Profile
- Edit Current Profile...
- Close Tab

In a mouse aware application, press the Shift key along with the right mouse button to get the popup menu.

1.5 Drag and Drop

If you drop a file, folder or URL on a Konsole window, a context menu appears with these actions:

<table>
<thead>
<tr>
<th>Action</th>
<th>Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copy Here</td>
<td>Ctrl</td>
</tr>
<tr>
<td>Link Here</td>
<td>Ctrl+Shift</td>
</tr>
<tr>
<td>Paste Location</td>
<td>Ctrl+Shift</td>
</tr>
<tr>
<td>Change Directory To</td>
<td></td>
</tr>
<tr>
<td>Cancel</td>
<td>Esc</td>
</tr>
</tbody>
</table>

Move Here (Shift)
Move the dropped item into the current folder. This item only appears in the context menu, if you have the rights to delete the dropped file or folder.

Copy Here (Ctrl)
Copy the dropped item into the current folder.

Link Here (Ctrl-Shift)
Insert a symbolic link to the dropped item.

Paste Location
Insert the full file path of the dropped item at the cursor.
Change Directory To
If a folder is dropped, this action appears in the context menu and allows you to change the working folder of the Konsole session.

Cancel (Esc)
Break the drag and drop action.

If you press the shortcuts before releasing the left mouse button during drag and drop, no context menu appears and the actions will be executed immediately.

If you want to use the Ctrl key for drag and drop or disable the context menu to insert URLs as text by default, enable the corresponding options on the Mouse tab in the profile settings dialog.
Chapter 2

Command Reference

2.1 The Menubar

The menubar is at the top of the Konsole window. If the menubar is hidden, **Show Menu Bar** can be reached by right clicking in the window (as long as no full screen application is running in that window such as vi, minicom, etc.). The default shortcut is listed after each menu item. Alternatively you can use the shortcut **Ctrl+Shift+M** to show or hide the menubar.

2.1.1 File Menu

File → **New Window** (Ctrl+Shift+N)

Opens a new separate Konsole window with the default profile

File → **New Tab** (Ctrl+Shift+T)

Opens a new tab with the default profile

**NOTE**
The first profile in the submenu will always be “Default” which is the built-in profile. All other profiles will be listed below that in alphabetical order. The user specified default profile will be in bold type.

File → **Clone Tab**

Attempts to clone the current tab in a new tab

File → **Save Output As...** (Ctrl+Shift+S)

Saves the current scrollback as a text or html file

File → **Print Screen ...** (Ctrl+Shift+P)

Print the current screen. By default the output is scaled to fit the size of the paper being printed on with black text color and no background. In the print dialog these options can be changed on the **Output Options** tab.

File → **Open File Manager**

Opens KDE’s file manager at the current directory. By default, that is **Dolphin**.

File → **Close Session** (Ctrl+Shift+W)

Closes the current session
File → Close Window (Ctrl+Shift+Q)
Quits Konsole

NOTE
Konsole will display a confirmation dialog if there is more than one session open or if there are
certain programs running in any session. These dialogs can be disabled by clicking on the Do
not ask again checkbox.

2.1.2 Edit Menu

Edit → Copy (Ctrl+Shift+C)
Copies the selected text to the clipboard

Edit → Paste (Ctrl+Shift+V)
Pastes text from the clipboard at the cursor location

Edit → Select All
Selects all the text in current window

Edit → Copy Input To → All Tabs in Current Window
Allows input from the current session to be sent simultaneously to all sessions in current
window

Edit → Copy Input To → Select Tabs... (Ctrl+Shift+.)
Allows input from the current session to be sent simultaneously to sessions picked by user

Edit → Copy Input To → None (Ctrl+Shift+/)
Stop sending input from current session into other sessions

Edit → Send Signal
Send the specified signal to the shell process, or other process, that was launched when the
new session was started.
Currently available signals are:

<table>
<thead>
<tr>
<th>Signal</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>STOP</td>
<td>to stop process</td>
</tr>
<tr>
<td>CONT</td>
<td>continue if stopped</td>
</tr>
<tr>
<td>HUP</td>
<td>hangup detected on controlling terminal, or death of controlling process</td>
</tr>
<tr>
<td>INT</td>
<td>interrupt from keyboard</td>
</tr>
<tr>
<td>TERM</td>
<td>termination signal</td>
</tr>
<tr>
<td>KILL</td>
<td>kill signal</td>
</tr>
<tr>
<td>USR1</td>
<td>user signal 1</td>
</tr>
<tr>
<td>USR2</td>
<td>user signal 2</td>
</tr>
</tbody>
</table>

Refer to your system manual pages for further details by giving the command \texttt{man 7 \texttt{signal}}.

Edit → Configure Tab Settings... (Ctrl+Alt+S)
Opens a dialog box allowing you to change the name format, the remote tab title format and the color of the current tab (more info)
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**Edit → ZModem Upload... (Ctrl+Alt+U)**
Opens up a dialog to select a file to be uploaded if the required software is installed.

**Edit → Find... (Ctrl+Shift+F)**
Opens a search bar at the bottom of Konsole’s window
This allows for case sensitive, forward or backwards, and regular expressions searches.

**Edit → Find Next (F3)**
Moves to the next search instance. If the search bar has the focus, you can use the shortcut `Enter` as well.

**Edit → Find Previous (Shift+F3)**
Moves to the previous search instance. If the search bar has the focus, you can use the shortcut `Shift+Enter` as well.

### 2.1.3 View Menu

**View → Split View → Split View Left/Right (Ctrl+()`**
Splits all the tabs into left and right views
Any output on one view is duplicated in the other view.

**View → Split View → Split View Top/Bottom (Ctrl+))**
Splits all the tabs into top and bottom views
Any output on one view is duplicated in the other view.

**View → Split View → Expand View (Ctrl+Shift+)**
Makes the current view larger

**View → Split View → Shrink View (Ctrl+Shift+[-])**
Makes the current view smaller

**View → Split View → Toggle maximize current view (Ctrl+Shift+E)**
Toggles the current view between current size and the maximize size

**View → Split View → Equal size to all views (Ctrl+Shift+\)**
Sets the same size for all views

**View → Detach Current Tab (Ctrl+Shift+L)**
Opens the current tab in a separate window
Quitting the previous Konsole window will not affect the newly created window.

**View → Detach Current View (Ctrl+Shift+H)**
Opens the current split view in a separate window

**View → Save tab layout to file**
Allows you to save the tab layout of the current view in a specialized Konsole layout file which can then be loaded to restore one of your favorite layouts.

**View → Load tab layout from file**
Allows you to load one of your favorite view layouts from the layout file that has been saved using the View → Save tab layout to file menu item earlier. The default layouts (2x2, 2x1, and 1x2) can be loaded via toolbar.
View → Monitor for Silence (Ctrl+Shift+I)
Toggles the monitoring of the current tab for lack of activity
By default, after 10 seconds of inactivity, an info icon will appear on the session’s tab. The type of alerts can be changed through Settings → Configure Notifications → Silence in monitored session.

View → Monitor for Activity (Ctrl+Shift+A)
Toggles the monitoring of the current tab for activity
Upon any activity, an info icon will appear on the session’s tab. The type of alerts can be changed through Settings → Configure Notifications → Activity in monitored session.

View → Monitor for Process Finishing
Toggles the monitoring of the current tab for the process finishing.
If checked, upon finishing the current process, Konsole will show a notification The process ’name of the process’ has finished running in session ’name of the session’.

View → Read-only
Toggles the session to be read-only: no input is accepted, drag and drop is disabled.

View → Enlarge Font (Ctrl++)
Increases the text font size

View → Reset Font Size (Ctrl+0)
Reset the text font size to the profile default

View → Shrink Font (Ctrl+-)
Decreases the text font size

View → Set Encoding
Sets the character encoding

View → Clear Scrollback
Clears the text in the scrollback

View → Clear Scrollback and Reset (Ctrl+Shift+K)
Clears the text in the current tab and scrollback and resets the terminal

View → Full Screen Mode (F11)
Toggles Konsole filling the entire screen

2.1.4 Bookmarks Menu

Bookmarks → Add Bookmark (Ctrl+Shift+B)
Adds the current location

Bookmarks → Bookmark Tabs as Folder...
Adds all tabs to a bookmark folder
A dialog will open for the bookmark folder name.

Bookmarks → New Bookmark Folder...
Adds a new folder to the bookmark list
A dialog will open for the bookmark folder name.

Bookmarks → Edit Bookmarks
Opens the bookmark editor
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NOTE
The keditbookmarks program must be installed for this menu item to appear. You can use the bookmark editor to manually add URLs. Currently, Konsole accepts the following:

• ssh://user@host:port
• telnet://user@host:port

2.1.5 Plugins Menu

Any installed plugins will be listed or “No plugins available”

2.1.6 Settings Menu

Settings → Edit Current Profile...
Opens a dialog to configure current profile

Settings → Switch Profile
Switch current profile to a listed profile

Settings → Manage Profiles...
Opens an editor for managing profiles

Settings → Window Color Scheme
Change Konsole's GUI to the specified scheme

Settings → Show Menu Bar (Ctrl+Shift+M)
Toggles the menubar being visible

Settings → Toolbars Shown
Allows visibility toggling of the Konsole toolbars

Settings → Show Statusbar
Toggles the statusbar being visible

Settings → Configure Language...
Opens window to choose an interface translation of Konsole.

Settings → Configure Keyboard Shortcuts...
Opens the keyboard shortcut editor. More on shortcuts configuration can be found in the KDE Fundamentals.
Additionally Konsole has a few special shortcuts with no corresponding menu item:

<table>
<thead>
<tr>
<th>Shortcut</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shift+Right</td>
<td>Next Tab</td>
</tr>
<tr>
<td>Shift+Left</td>
<td>Previous Tab</td>
</tr>
<tr>
<td>Ctrl+Alt+Left</td>
<td>Move Tab Left</td>
</tr>
<tr>
<td>Ctrl+Alt+Right</td>
<td>Move Tab Right</td>
</tr>
<tr>
<td>Ctrl+Shift+Ins</td>
<td>Paste Selection</td>
</tr>
</tbody>
</table>
Settings → Configure Toolbars...
Opens the toolbar configuration window

Settings → Configure Notifications...
Opens the notifications editor

Settings → Configure Konsole...
Opens the Konsole settings editor

This dialog has options influencing the appearance and behaviour of the Konsole window.

- The General page allows configuring the menubar visibility, remembering the Konsole window size, running all Konsole windows in a single process, enabling menu accelerators, showing window title on the titlebar, removing window titlebar and frame, and focusing terminals when the mouse pointer is moved over them. It is also possible to configure the search case sensitivity, usage of the regular expression, highlighting all matches, and the search direction (Search backwards is the default). The General page is also the place where you can Enable all “Don’t Ask Again” messages again if they were switched off before.

- The Profiles page is meant for creating and handling profiles.

- Using the Tab Bar/Splitters page you can configure the visibility and placement of tab bar, define tabs behavior and fine-tune the tab buttons options. It is possible to configure if you want to Show ‘New Tab’ button and Expand individual tab widths to full window or configure Use user-defined stylesheet. The Behavior tab can be used to define the place for the new tabs (At the end or After current tab) and closing of tabs with a middle mouse button click. It is also possible to configure visibility of the split headers (When needed (default), Always, or Never) and define the drag handle size for splits (Small (default), Medium, or Large) using the Splits tab of this configuration page.

- The Temporary Files page is used to define the scrollbar file location.

- The Thumbnails page can be used to define the thumbnail size and activation options (you can choose the activation control key from Shift, Alt, and Ctrl).

**NOTE**
To use the thumbnails feature showing image thumbnails in popups when hovering image items with the mouse pointer, you should enable file underlining for your current profile: Settings → Edit Current Profile... → Mouse → Miscellaneous → Underline files.

2.1.7 Help Menu

Konsole has the some of the common KDE Help menu items, for more information read the section about the Help Menu of the KDE Fundamentals.

2.2 Konsole Dialogs

2.2.1 Configure Tab Settings Dialog

The name format, the remote tab title format, and the color of the current tab can be changed from this dialog. The dialog can be displayed via the menu, the shortcut Ctrl+Alt+S or by double-clicking on the tab in the tab bar. These changes are temporary and can be made permanent by editing the current profile.

Konsole will substitute these tokens for local tabs:
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- `%n`: program name
- `%d`: current directory (short)
- `%D`: current directory (long)
- `%h`: local host (short)
- `%u`: user name
- `%B`: user’s Bourne prompt sigil ($ = normal user, # = superuser)
- `%w`: window title set by shell
- `%#`: session number

Konsole will substitute these tokens for remote tabs:

- `%c`: current program
- `%h`: remote host (short)
- `%H`: remote host (long)
- `%u`: user name
- `%U`: user name@ (if given)
- `%w`: window title set by shell
- `%#`: session number

Examples:

- `%d`: `%n` with `/usr/src` as current directory and running bash will display `src : bash`
- `%D`: `%n` with `/usr/src` as current directory and running top will display `/usr/src : top`
- `%w (%#)` with `~` as current directory and running vim in the first tab will display `[No Name] (~) - VIM(1)`

### 2.2.2 Copy Input Dialog

The text entered in one tab can simultaneously be sent to other tabs. This dialog allows you to select which tabs will get that input. The current tab will be greyed out.

### 2.2.3 Adjust Scrollback Dialog

The `scrollback` options for the history size can be changed in this dialog. Any changes are for the current tab only and will not be saved to the profile.
Chapter 3

Command-line Options

When Konsole is started from the command line, various options can be specified to modify its behavior.

--help
List various options.

--profile file
Start Konsole using the specified profile instead of the default profile.

--layout file
Start Konsole using a saved JSON layout file.

--builtin-profile
Use the built-in profile instead of the current default profile.

--workdir dir
Open with dir as the initial working directory.

--hold, --noclose
Do not close the initial session automatically when it ends.

--new-tab
Create a new tab in an existing window rather than creating a new window.

--tabs-from-file file
Create tabs as specified in the given tabs configuration file.

NOTE
The file has one tab per line in the following format:
Each line specifies a tab to open using up to 4 fields specifying how it is to open. Fields are delimited with ;; and a field name must have a : appended. Empty lines or lines with # at the beginning are ignored, so you can use line beginning with # to add comments.

- title: a name for this tab, tab default if blank or not specified
- workdir: working directory, ~ if blank or not specified
- profile: a Konsole profile to use, the default if blank or not specified
- command: a command to run

Each line should contain at least one of command or profile field.
Example: title: %n; command: /usr/bin/top ;; profile: Shell
--background-mode
Start Konsole in the background and bring to the front when Ctrl+Shift+F12 (by default) is pressed.

--separate, --nofork
Run the new instance of Konsole in a separate process.

--show-menubar
Show the menubar, overriding the default behavior.

--hide-menubar
Hide the menubar, overriding the default behavior.

--show-tabbar
Show the tabbar, overriding the default behavior.

--hide-tabbar
Hide the tabbar, overriding the default behavior.

--fullscreen
Start Konsole in fullscreen mode.

--notransparency
Disable transparent backgrounds, even if the system supports them.

--list-profiles
List all available profiles.

--list-profile-properties
List all possible properties with name and type. See option -p.
For more information, please visit Konsole API Reference.

-p property=value
Change the value of a profile property.

-e command
Execute command instead of the normal shell.

NOTE
This option will catch all following arguments passed to Konsole, and execute it as command. So this option should always be used as the last option.

Konsole also accepts generic Qt™ and KDE Frameworks 5 options, see man pages qt5options and kf5options.
Chapter 4

Scripting Konsole

Konsole does support numerous methods that can be used with D-Bus. There are two ways to use the D-Bus interface: Qt™’s GUI qdbusviewer and the command line qdbus.

Examples:

• `% qdbus` will display all services available.
• `% qdbus org.kde.konsole` will display the D-Bus interface for Konsole.
• `% qdbus org.kde.konsole /Windows/1` will display methods for controlling window 1.
• `% qdbus org.kde.konsole $KONSOLE_DBUS_WINDOW` will display methods for controlling the current window.
• `% qdbus org.kde.konsole /Sessions/1` will display methods for controlling session 1.
• `% qdbus org.kde.konsole $KONSOLE_DBUS_SESSION` will display methods for controlling the current session.
• `% qdbus $KONSOLE_DBUS_SERVICE $KONSOLE_DBUS_SESSION` will display methods for controlling the current Konsole’s session.

If any of the above commands outputs: Service ‘org.kde.konsole’ does not exist, change `org.kde.konsole` to one of the following:

• `org.kde.konsole-`’pidof -s konsole’ (will select first pid)
• `$KONSOLE_DBUS_SERVICE` (this can be used from the current Konsole)
• select one from the output of ‘qdbus | grep konsole’

For more information, please visit D-Bus tutorial.
Chapter 5

Terminal Key Bindings

5.1 How Konsole Uses Key Bindings

5.1.1 Introduction

Konsole uses *.keytab files to translate key combinations into control characters and escape sequences that are sent to the shell or to interactive programs (typically programs that use the Alternate Screen buffer, e.g. vim, less, screen) running in the shell.

Users can customize the key bindings settings in Konsole using the Key Bindings Editor. A key combination can be configured to send a specific control or escape sequence to the terminal.

You can open the Key Bindings Editor from the menu entry Settings → Edit Current Profile, and going to the Keyboard tab. Listed there are the Key Bindings schemas that come by default with Konsole.

5.1.2 Key Combinations and Modes

Key combinations follow the pattern:

| Key (+|-) Modes |
|----------------|

for example:

- Up+Shift+AppScreen
- Down+Shift+AppScreen
- Space+Ctrl

Key names are defined in the qnamespace.h header file, with the ‘Qt::Key_’ prefix removed, for a list of key names check the Qt::Key enumeration in the Qt documentation.

A ‘+’ preceding a Mode name means that mode is set; for a modifier key, that means it’s pressed, whereas for all other modes it means that particular mode is in effect (i.e. active). For example ‘+Ctrl’ means the key combination will work only if the Ctrl key is pressed.

A ‘-’ preceding a Mode name means that mode is reset; basically this is the opposite of putting ‘+’ before a Mode name, so for a modifier key that means the key isn’t pressed, whereas for all other modes it means that particular mode is inactive. For example ‘-Ctrl’ means the key combination will work only if the Ctrl key is not pressed.
The supported Key Bindings modes are listed below:

**Alt, Ctrl, Shift**

One or more of these Modes can be used in a key combination, if any of them is set, the key combination uses that modifier key, respectively; and vice versa if it’s reset

**AnyModifier**

If this mode is set, the key combination uses any modifier key (any of the previous three modifier keys); and vice versa if it’s reset

**Ansi**

If this mode is set, Konsole will send ANSI escape and control sequences
If this mode is reset Konsole will send VT52 escape and control sequences

**AppScreen**

If this mode is set, the key combination will only affect interactive programs that use the Alternate Screen buffer
If this mode is reset the key combination will only affect the terminal when it’s using the Normal Screen buffer

*NOTE*

Konsole makes use of two screen buffers:

- The Normal Screen buffer (default): allows you to scroll back to view previous lines of output, this is the default buffer you usually use to execute commands... etc.
- The Alternate Screen buffer: the terminal switches to this buffer when you run an interactive program (e.g. less, vim, screen, tmux... etc.)

**KeyPad**

If this mode is set, the key combination uses a key on the Keypad (Number Pad). This mode is useful to distinguish between keys on the keyboard and keys on the Keypad. For example when Num Lock is *on* you can configure two separate key combinations, one using the key labelled ‘1’ on the keyboard (usually under the $F1$ key) and the other using the key labelled ‘1’ on the Keypad. The same concept applies when Num Lock is *off* for the End, Home, Cursor Keys ...etc on the Keypad

**AppCursorKeys**

This mode implements the VT100 *Cursor Keys Mode (DECCKM)*. It controls the escape sequences each Cursor Key (*Up, Down, Right, Left*) sends, depending on whether this mode is set or reset
By default Konsole follows the XTerm behavior of treating the *Home* and *End* keys as cursor keys with respect to DECCKM

**AppKeyPad**

If this mode is set, the key combination will only work when the Keypad is in Application Mode (*DECKPAM*)
If this mode is reset, the key combination will only work when the Keypad is in Numeric Mode (*DECKPNM*)
NewLine
If this mode is set, the Return (Enter) key on the keyboard will send both Carriage Return "\r" and New Line "\n" control characters
If this mode is reset, the Return key will send only a Carriage Return "\r"
The same applies to the Enter key on the Keypad
This mode emulates the LNM - Line Feed/New Line Mode

Note that each combination of Key and Modes (set/reset) must be unique. For example, consider the following two rules:

• A+Shift : ‘A’
• a : ‘a’

Konsole will not accept the small letter ‘a’ rule, you have to add a ‘-Shift’ to that rule to make it work.

5.1.3 The Output Field

In the Output field you can add the escape sequences or control characters that you want Konsole to send to the terminal when the associated key combination is pressed.

You can also use any of the following keywords, each of which has a special meaning in Konsole:

• scrollUpLine : scroll up one line in the shell history scrollback buffer
• scrollUpPage : scroll up one page in the shell history scrollback buffer
• scrollDownLine : scroll down one line in the shell history scrollback buffer
• scrollDownPage : scroll down one page in the shell history scrollback buffer
• scrollUpToTop : scroll up to the begining of the shell history scrollback buffer
• scrollDownToBottom : scroll down to the end of the shell history scrollback buffer

You can also use strings with C-string syntax; you may use the following escapes sequences:

• \E : Escape
• \": Backslash
• \" : Double quote
• \t : Tab
• \r : Carriage Return
• \n : New line
• \b : Backspace
• \xHH : where HH are two hex digits

Tip
This can be used to send ASCII control characters, e.g. ‘\x00’ which is the NUL character
5.1.4 Other System Resources

There are other system resources that can affect terminal Key Bindings:

- Consult the `terminfo` or `termcap` database for the expected escape sequences and control characters that each key combination is supposed to send.

- It is likely that your system has other keyboard databases which have to be in sync too, (e.g. `/etc/inputrc` and `readline` for the BASH shell) as they affect the operations (interactions) bound to key combinations.

5.1.5 Further Reading

For more information on escape sequences and control characters, check the following documentation:

- The VT100 user guide
- The VT102 user guide
- The comprehensive and indispensable `XTerm Control Sequences` documentation
Chapter 6

Using Style Sheet for the Tab Bar

The default style sheet for the tab bar sets the minimum and maximum tab widths. The user can create a .css file and have Konsole use that as the style sheet for the tab bar. In the .css file, the widget to use is QTabBar::tab.

For more information, consider reading Qt Style Sheets

Examples:

• Change the selected tab’s background to a light gray

```css
QTabBar::tab:selected {
    background: #999999
}
```

• Change the selected tab’s text to red

```css
QTabBar::tab:selected {
    color: red
}
```

• All tabs will be at least 200 pixels in width

```css
QTabBar::tab {
    min-width: 200px
}
```

• Only the selected tab will be at least 200 pixels in width

```css
QTabBar::tab::selected {
    min-width: 200px
}
```

• Any of these can be combined in one file

```css
QTabBar::tab::selected {
    background: #999999;
    color: red;
    min-width: 200px;
}
QTabBar::tab {
    min-width: 100px
}
```
Chapter 7

Did You Know?, Common Issues and More

7.1 Did You Know?

- Pressing Ctrl while selecting text will cause lines breaks to be converted to spaces when pasted.
- Pressing the Ctrl+Alt keys while selecting text will select columns.
- The Ctrl+Wheel combination will zoom text size, like in konqueror and firefox.
- When a program evaluates either mouse button, pressing the Shift key will allow the popup menu to appear.
- The Ctrl+Shift+F10 shortcut will activate the menu.
- The Shift+Insert keys will insert the clipboard.
- Double-clicking will select a whole word. Continuing to hold the mouse button and moving the mouse will extend the selection.
- Triple-clicking will select a whole line. Continuing to hold the mouse button and moving the mouse will extend the selection.
- There is a hidden feature for the "%d" formatter in tab title. You can tell Konsole to abbreviate a directory name into its first character. For example, "/path/to/konsole/src" can be abbreviated into "konsole/s". If you want to enable and control this hidden feature, open konsolerc in qtpaths --paths GenericConfigLocation and add following lines:

```
[ProcessInfo]
CommonDirNames=name1,name2,name3...
```

\textbf{NOTE}\n
If you are using Yakuake, you need to edit yakuakerc in qtpaths --paths GenericConfigLocation instead.

7.2 Common Issues

- Some fonts might be unavailable for usage in Konsole, although they are available in other applications. That doesn’t mean there is a bug in Konsole. Konsole requires monospaced fonts to provide the best visual result, so it asks Qt\textsuperscript{TM} to only list monospaced fonts.
Starting with version 16.08 (August 2016), Konsole can be configured to allow selecting any font with the caveat that the display may not be correct.

• Since KDE4 all the tabs use the same process ID. This has the side-effect that if one tab’s process has issues, all the other tabs may experience issues as well. This is most noticeable when a command that connects to an external device or system (ssh, nfs) has issues.

• Konsole treats arguments after the -e option as one command and runs it directly, instead of parsing it and possibly dividing it into sub-commands for execution. This is different from xterm.

  – `konsole -e "command1 ; command2"` does not work
  – `konsole -e $SHELL -c "command1 ; command2"` works

• Konsole doesn’t provide convenience for running login shell, because developers don’t like the idea of running login shell in a terminal emulator.

  Of course, users still can run login shell in Konsole if they really need to. Edit the profile in use and modify its command to the form of starting a login shell explicitly, such as "bash -l" and "zsh -l".

• The --new-tab option sometimes behaves strangely. It may create new window, or it may create new tab in another existing Konsole window instead of the current Konsole window.

  Those behaviors feel strange, but they are not necessarily bugs. The --new-tab option tries to reuse existing Konsole windows, but not all Konsole windows are reusable. All Konsole windows opened through KRunner are reusable, while most Konsole windows opened from command line are not.
Chapter 8

Credits and Copyright

Konsole is currently maintained by Kurt Hindenburg kurt.hindenburg@gmail.com
Previous Konsole maintainers include: Robert Knight robertknight@gmail.com and Waldo Bastian bastian@kde.org
The application Konsole Copyright (c) 1997-2008 Lars Doelle lars.doelle@on-line.de
This document was originally written by Jonathan Singer jsinger@leeta.net
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This document was updated for KDE 3.4 by Kurt Hindenburg kurt.hindenburg@gmail.com
Originally converted to DocBook SGML by Mike McBride and Lauri Watts
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Appendix A

Links

For more information please visit these websites:

- Konsole’s homepage on KDE’s UserBase
- Konsole’s homepage
- Konsole’s mailing list
- KDE on FreeBSD
- KDE on Solaris