

KOREADER USER GUIDE



This guide is more suitable for larger screens with color and contains links to the relevant websites so reading this document on a computer or tablet is recommended. If you are new to KOReader, suggested method is opening this manual on a computer while trying the explained actions on your e-reader. You can also use the search function of your PDF reader to find a specific topic. Some parts of the guide are color coded according to their category:

USER INTERFACE ELEMENTS OF KOREADER

MENU PATHS

ADVANCED TOPICS AND WARNINGS

EXTERNAL APPS AND SERVICES

KOReader is developed and supported by volunteers all around the world.

If you want to contribute too, there are many ways you can be a part of this project.

You can:

- Fix bugs and implement new features
- Translate the program into your language or improve an existing translation
- Document lesser-known features on the wiki
- Help others with your knowledge in the forums

Check **MORE INFO** section at the end for links.

WHAT'S NEW IN THE GUIDE ?

You can check these sections of the guide to learn about the newly documented features in this version of the guide:

NEW SECTIONS

- Added **"What can you do with KORreader ?"** section
- Added **Profiles** section
- Added **QuickMenu** section
- Added **User Patches** section
- Added **Predefined Gestures** section
- Added **Preparing Documents For Your Device** section
- Added **Advanced preparation of manga** subsection
- Added **How To Reach Us** section

UPDATED SECTIONS

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WHAT CAN YOU DO WITH KOREADER ?

Despite its minimalistic looks, KOREader is a very powerful and customizable application. You can check the list below to see what can you do with KOREader. All these features are explained in this guide.

Transfer your files

- **USB mass storage** mode for supporting devices
- **Cloud storage** ([Dropbox](#)/FTP/Webdav) with suitable accounts
- KOREader can act as an **SSH server**, so you can use an SFTP application or your file manager (if your OS supports it) to directly transfer files
- With the **Calibre plugin** you can send books from your Calibre Library directly to your KOREader devices over wifi
- With the **News downloader plugin** you can download **RSS and Atom** news entries to your device as HTML files
- With the **Wallabag plugin** you can retrieve articles from your Wallabag account (a server based read-it-later service like [Pocket](#))

Text adjustments

- Change to landscape orientation manually or (if your device supports) automatically
- Change fonts (including fonts which you transferred to your device), font size, contrast, boldness and kerning
- Word spacing, word expansion
- Text alignment, line spacing, two column layout
- Adjust margins, **apply** or **ignore** publisher styles and fonts
- Set each adjustment as a **default** and revert to them with one tap

While reading

- Highlight text with different styles, place bookmarks
- Add notes using a customizable keyboard including diacritic modifiers
- Invert screen colors
- Take screenshots
- Turn pages automatically
- Track your reading statistics including **reading progress, time range** and **calendar views**

Navigating through your collection

- Powerful **File Browser** where you can copy, move, rename, create, delete files and folders
- Many options to see your books with detailed and mosaic views
- Add your books to **Favorites** for quick access
- **History** that shows last accessed books

Navigating through your book

- **Skim widget** to quickly jump between pages, chapters, bookmarks
- Unique **Book map** to see a bird's eye view of your book including all your notes and highlights
- **Page browser** to move through pages like a film reel
- **Bookmarks browser** to navigate between your highlights easily

Search and Lookup

- Search the document by selecting or entering text (including **regular expressions**)
- Search in your bookmarks, highlights and notes
- Lookup text in [Wikipedia](#) or in installed dictionaries and translate it by a long-tap

Device

- Powerful **gesture system** which you can customize and expand
- You can create a menu with your favorite actions with **QuickMenu**
- Dim or turn off your **screen light** after a set interval
- Adjust frontlight / backlight level and **warmth** manually or automatically
- Set your own **screensaver** from many options like random images, book cover, reading progress etc.
- Set battery **charge limit** alarms to prevent deep discharge / over charge
- Set a memory usage alert (useful for devices for smaller memory) and optionally restart KOREader upon reaching this limit
- Integrated one tap self update

PDF documents

- Crop margins automatically or manually
- **Reflow** documents to extract text and read easier on a small screen
- Different zoom types and page flow directions to read **multi-column documents** easily
- Auto straighten tilted documents
- Apply **OCR**
- Special **Panel zoom** feature for reading mangas

Advanced

- Create a **QR code** from your clipboard
- Add your own **CSS style tweaks** for books
- View HTML source of a selection in an EPUB document
- Powerful **Profiles** feature to automate actions
- Create and edit text files on your device
- Open a terminal emulator and run commands on your device
- See your CPU, memory and battery usage stats

Exporting your notes and highlights

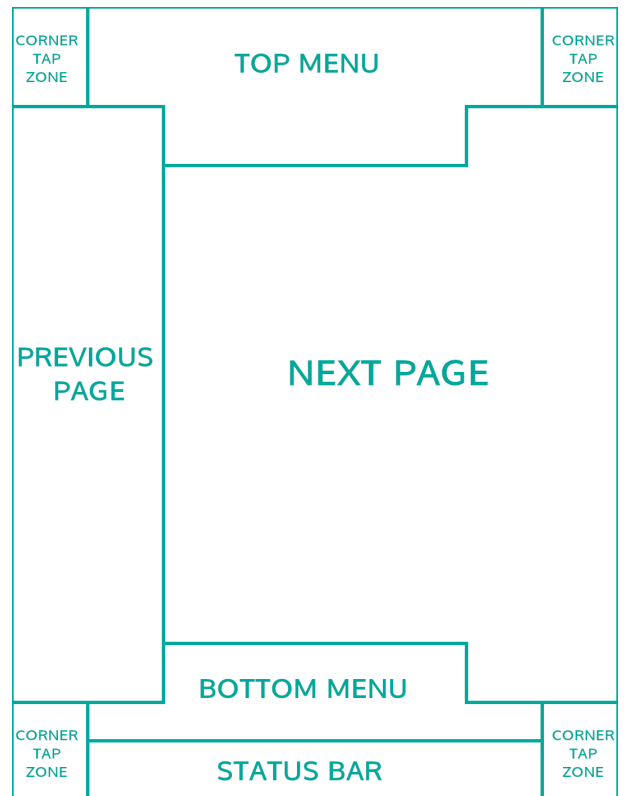
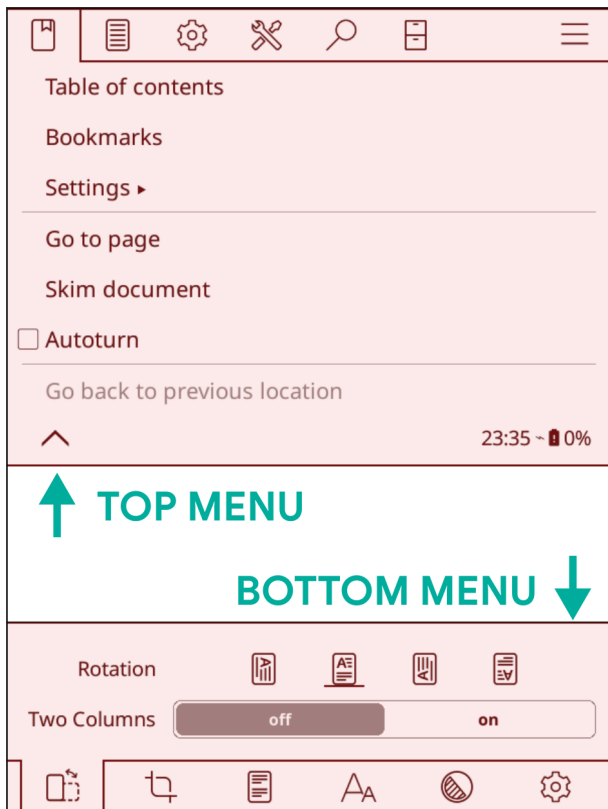
- Export your notes and highlights to your device as text, markdown, HTML or JSON format
- Synchronize to online services like [Joplin](#) and [Readwise](#)

USER INTERFACE

KOReader has a simple, black and white user interface because gradients and different shades of gray can cause flashing and ghosting on e-ink screens which can degrade reading experience. KOReader has 2 main interfaces: **READING SCREEN** and **FILE BROWSER**.

READING SCREEN

READING SCREEN has two toolbars. **TOP MENU** includes menu items related to the general usage of KOReader. You will access your books, KOReader preferences, plugins etc. here. **BOTTOM MENU** is focused on options for document formatting like font weight/size, line spacing etc. While adjusting your text appearance, you will mostly interact with the **BOTTOM MENU**.



On the right you can see the default tap zones of KOReader. To show the **TOP MENU** or **BOTTOM MENU** you can tap the indicated zones. You can also swipe down the upper zone to show the **TOP MENU**.

You can set **TOP MENU** zone to open both the **TOP** and **BOTTOM MENU** at the same time via this menu:

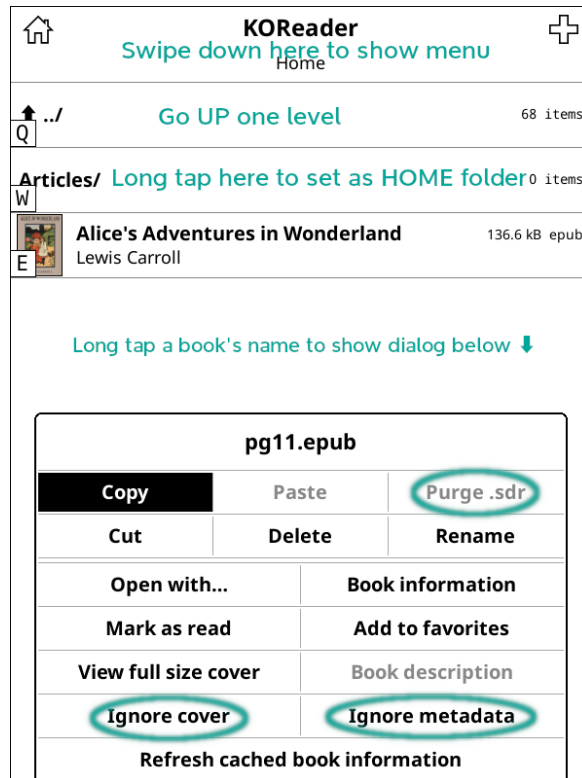
TOP MENU >  > **Taps and Gestures** > **Activate Menu**

CORNER TAP ZONES can be used for many different type of gestures including **TAP**, **DOUBLE TAP**, **TWO FINGER TAP** and **TAP and HOLD**.

PREVIOUS PAGE and **NEXT PAGE** zones can also be used for **DOUBLE TAP** gestures at the same time.

STATUS BAR zone can be tapped to cycle between **STATUS BAR** items if only one item is visible. If all items are visible, tapping will show and hide the **STATUS BAR**. Check "[How can I configure status bar ?](#)" heading for more info.

FILE BROWSER



FILE BROWSER is the first screen you will see when you open KOREader. It is also accessible from the reading screen via:

TOP MENU > 

By default, it shows your main books folder (which you can change by tapping and holding on any folder).

You can change many options like how books are displayed or sorted via the **TOP MENU** by swiping down from the top part of the screen as shown in the image on the left.

When you tap and hold a document name, a dialog with many options is shown. Most items are self-explanatory. Circled items are explained below:

PURGE .SDR: This option basically resets your book by deleting its configuration/highlights file.

WARNING: If you choose this, you will lose all notes and highlights in that book.

IGNORE COVER: If for some reason you want to disable the cover for this book (it may have wrong cover or cover is not very readable on the e-ink screen) you can select this.

IGNORE METADATA: If your book metadata is not correct, name field may show useless information. Select this option to show the file name instead of metadata.

Following methods are available for accessing your books and articles:

- File Browser
- Favorites
- History

You can assign gestures for each of these dialogs. For example while reading a book, you can open your **History** or **Favorites** with a gesture. Then you can open another book without going through the **File Browser**.

You can also set KOREader to start with **Favorites** or **History** screen via:

TOP MENU (in File Browser) >  > **Start with**

USER INTERFACE TIPS

KOReader has a simple, black and white user interface because gradients, different shades of grey and fancy window decorations can cause flashing and ghosting on e-ink screens which can degrade reading experience. KOReader's interface and options change according to the file type you open. There are mainly two types of files: **Fixed layout documents** (PDF, DJVU, image files...) and **Reflowable documents** (EPUB, HTML, DOCX, RTF, TXT...).

- You can change the interface language via:

TOP MENU >  > Language

- If you tap and hold an **option** or **menu item** (font weight, line spacing etc.), you can set its value as **DEFAULT**. The new value will only be applied to books opened from now on. Previously opened books will keep their settings. You can identify default values as a **STAR** in the menu or as a **black border** around the indicators as seen below:

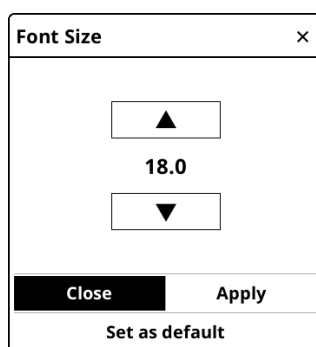
Justify most text ★

Line Spacing 
DEFAULT VALUE WITH DARK BORDER 

- On the **BOTTOM MENU** if you tap and hold an option's name, you can see its explanation

- You can **CLOSE** full screen dialogs (**History, Table of Contents, Bookmarks, Reading Statistics** etc.) by **swiping down**

- You can take a screenshot by making a **long diagonal swipe** with your finger



- In dialogs containing adjustment arrow buttons like the one above, you can **tap and hold** on arrow buttons to change the value in bigger increments

You can **CLOSE** this type of dialog (non-full screen) by tapping outside of its window

You can **MOVE** this type of dialog by holding its window title and dragging

You can make this type of dialog **SEMI-TRANSPARENT** by tapping and holding the **window title** (when you want to see the text under it while adjusting a value)

KOReader supports dictionary lookup in EPUB and scanned PDF/DJVU documents. To see the dictionary definition or translation, just tap and hold a word.

- Tapping and holding a word brings up a dialog where you can also search the selection in the document for more occurrences or look it up on Wikipedia.

- If you want to change the size of user interface, there is a **DPI** setting for that:

TOP MENU >  > Screen > Screen DPI

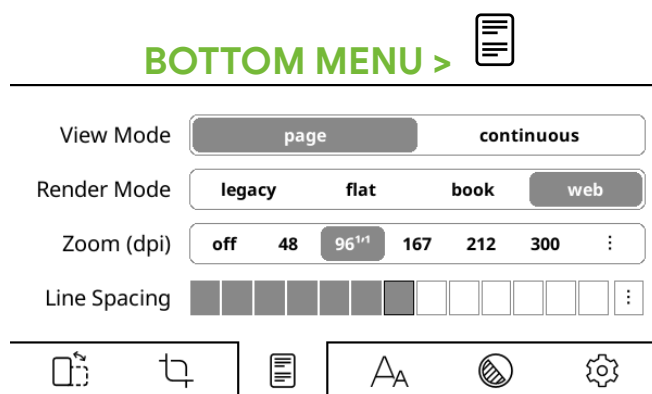
You can choose a value from the menu or select **CUSTOM DPI** to enter a value for fine tuning. **Higher DPI = Bigger Interface**

Note that there is also a **Zoom (dpi)** setting in the bottom bar. That one is related to the documents only. You can find the explanation in the next section.

- You can disable black flashing of user interface if it disturbs you (automatic partial refresh to clear ghosting) :

TOP MENU >  > Screen > E-ink Settings

EXPLANATIONS OF BOTTOM MENU ITEMS



VIEW MODE: If you change to **continuous** mode you can scroll the document like a web page. This mode is more suitable for non e-ink screen types (LCD, OLED). In continuous mode you lose **TOP - BOTTOM MARGINS** so text may be cut on first and last line of screen. To solve this problem you can enable **PAGE OVERLAP**

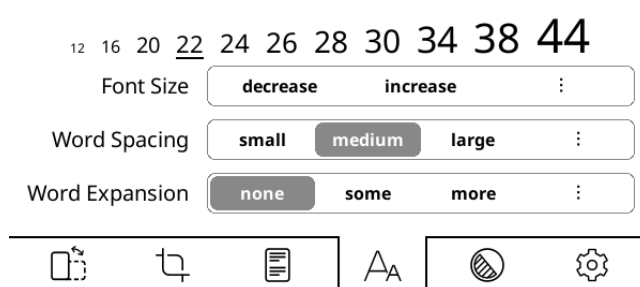
TOP MENU >  **> Page Overlap**

RENDER MODE: This option determines how your document is rendered by KOREader. Default is **WEB** and generally you don't need to change this setting.

When a book (or saved web page) is very complicated (specified widths or margins, negative margins, floats etc.) and layout looks bad or overflow the screen, you can try other rendering modes.

ZOOM (dpi): This setting can be thought of as a general zoom factor for the document (except font size). At 96 dpi (which is the default setting), images in the document are rendered at their original dimensions. Basically you use this setting if you want to make images bigger without making the text bigger.

BOTTOM MENU >



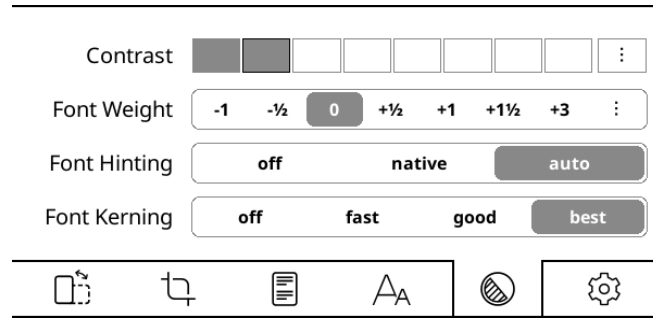
WORD SPACING and WORD EXPANSION: These two settings are related and they determine how your text will look when it is justified. When you justify text, space is added between words so that both edges of each line are aligned with both margins. Since word counts of lines are not equal all the time, in justified alignment, text has to be compressed or expanded to fill the line.

WORD SPACING: How much the **SPACE** characters in a line of text can be compressed to fit more words. This setting doesn't affect words, it only changes the space between them.

WORD EXPANSION: If you have too much white space in a line, how much of that can be distributed into the words by expanding them. This setting affects the appearance of words. If you don't want your words to expand, set this to **NONE**.

You can experiment with different settings until the text looks pleasing to you, then set them as defaults via their respective dialogs.

BOTTOM MENU >



CONTRAST and **FONT WEIGHT** are two options that you can use to make your text bolder (or lighter). You can achieve the same appearance with either of these options but they use different methods to achieve it. Of course you can use them both at the same time.

The differences between them can be summarized as:

CONTRAST

- + Doesn't change font width, book length stays the same
- + Doesn't need to re-render document, faster
- Might look bad on LCD or low DPI screens.

FONT WEIGHT

- + Will use proper weighted fonts if you have them installed
- + Looks better on LCD or low DPI screens
- Has to re-render fonts, slower

FONT HINTING adjusts your text for maximum readability according to your screen's pixel grid. **NATIVE** uses font's internal hinting instructions, **AUTO** uses FreeType's hinting algorithm. **AUTO** is a safer choice because font files that you installed may have problematic hinting instructions. It also handles **CJK** text better. You can try different settings to see which one looks better on your device.







FONT KERNING adjusts the spacing between letters to achieve a visually pleasing result. Default is **BEST**, which might be slower when opening files (depending on your device) but has better support for ligatures (see picture below for an example), joined Arabic glyphs and some other scripts. If your device is slow, you can try **GOOD** which is faster and may still look correct with western latin-script text.

Griffiths **GOOD**

Griffiths **BEST**

BOTTOM MENU >

Alt Status Bar	<input type="checkbox"/> off	<input checked="" type="checkbox"/> on
Embedded Style	<input checked="" type="checkbox"/> off	<input type="checkbox"/> on
Embedded Fonts	<input checked="" type="checkbox"/> off	<input type="checkbox"/> on
Image Scaling	<input checked="" type="checkbox"/> fast	<input type="checkbox"/> best

					
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ALT STATUS BAR enables an alternative status bar which is available only in reflowable documents (EPUB, HTML, DOCX, RTF, TXT...). After enabling it here, you can configure **ALT STATUS BAR** via:

TOP MENU >  > Status Bar > Alt status bar






EMBEDDED STYLE and **EMBEDDED FONTS** determine if publisher's styles and fonts embedded in the document will be used (or ignored) to render the document. These are general on/off switches. You can achieve more fine tuned tweaks for your document via:

TOP MENU >  > Style Tweaks

IMAGE SCALING determines how images in your document are rendered. **BEST** looks more pleasing but it is slower.

GENERAL READING INFO

How can I personalize my text ?

- You can change the font* **TOP MENU** >  > **Font**
- Make font bigger **BOTTOM MENU** > 
- Make font bolder **BOTTOM MENU** > 
- Invert the colors on screen (white on black) **TOP MENU** >  > **Night Mode**
- Change many other formatting options* **TOP MENU** >  > **Style Tweaks**

You can also change other formatting options from the **BOTTOM MENU** to fine tune the appearance of your text.

You can see your reading statistics via:

TOP MENU >  > **Reading Statistics**

*Font selection and style tweaks are available only on reflowable documents (EPUB, HTML, DOCX, RTF, TXT...). Fixed-layout documents like PDF/DJVU are not supported.

How can I add my own fonts ?

KOReader supports fonts in most widely used TrueType (.ttf) and OpenType formats (.otf). Font files with these extensions can be directly copied to **/koreader/fonts/** folder on your device. Check the wiki for more info:

<https://github.com/koreader/koreader/wiki/Fonts>

When starting up, KOReader compiles the available fonts from the font metadata/info and classifies them according to family and weights. This means you can add different weights and variants of a font and KOReader will try to use the most suitable one. Since it is taking font family information from metadata, font names are not important when copying to your device. Installed fonts will be available after restarting KOReader. Refer to the previous question for how to change the font.

You can check the **Google Fonts** website for more fonts: <https://fonts.google.com>

How can I configure the status bar ?

You can configure bottom status bar from this menu. Feel free to explore the **SETTINGS** sub-menu to customize your status bar as you like.

TOP MENU >  > **Status Bar**

There are many items you can show on the status bar. But by default, only one is shown at a time and you have to click on the status bar to cycle between them. If you want to show all items at once, enable this menu item:

TOP MENU >  > **Status Bar** > **Settings** > **Show all at once**

You can sort the items via:

TOP MENU >  > **Status Bar** > **Settings** > **Sort items**

There is also an **ALT STATUS BAR** which is available in reflowable documents (epub, html, docx, rtf, txt...). If you prefer to use this, you can enable via:

BOTTOM MENU >  > **Alt Status Bar**

HIGHLIGHTING TEXT

Normal mode

This mode is similar to selecting a text with your finger on a phone/tablet.

Usage:

1. Long-press on the starting word
2. Move your finger to the end of the passage
3. Release finger

If you reach page boundaries, KOREader will turn the page for you to continue highlighting (only in EPUB/HTML documents).

Select and highlight mode

This mode is more suitable for highlighting longer passages which cross page boundaries. It might also be more suitable if you have touch screen sensitivity problems or motor control issues with your hands because in this mode you don't need to drag your finger along the screen.

NOTE: If you have dictionary lookup enabled when long pressing a word, you have to drag your finger to initiate this mode.

TOP MENU >  > Taps and gestures > Long-press on text > Dictionary on single word selection

Usage:

Long-press on starting word and press this	Long-press on ending word and press this
Select	Highlight
Copy	Add Note
Wikipedia	Dictionary
Translate	View HTML
Search	

1. Long-press (or drag if dictionary lookup is enabled as described above) on the starting word, popup menu will show up
2. Tap on **Select**, now you are in highlighting mode. When you are in this mode, you will see an indicator at the upper left corner of the screen (which you can tap on it to get more information). You can cancel highlighting by tapping on the beginning of highlight again. You can turn pages with taps/swipes and freely navigate the document (TOC, skim etc) in this mode.
3. Long-press (or drag if dictionary lookup is enabled as described above) on the ending word for your highlight, menu will show up again
4. Tap **Highlight** this time to finish highlighting the passage

TIP: There is a **faster** method for this mode if you don't need long-press menu items shown above. You can disable the popup menu completely so when you long-press on a word you will immediately enter the **Select and highlight** mode. This method is much faster and you can highlight any length of text with just two taps. To use this method enable this option:

TOP MENU >  > Taps and gestures > Long-press on text > Select and highlight

TIP: KOREader can highlight a passage in different styles. If you use **Lighten** option, text background will be gray. Due to e-ink limitations, screens can't change from white to gray directly so highlighted part first has to turn black and then gray. If you want to avoid this flashing, you can choose **Inverted** as your highlight style. In this mode text background will be black so it can be set without flashing.

You can adjust these highlighting options via:

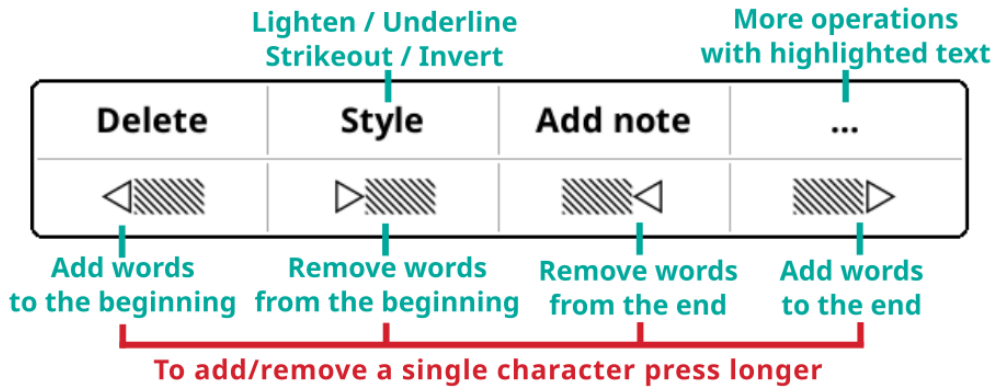
TOP MENU >  > Highlight style

Selecting punctuation

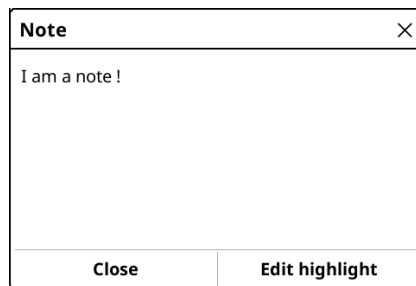
When making a highlight, KOREader tries to include the related punctuation marks around your selection. For example if you highlight from the first word to the last word of a sentence, KOREader will automatically include the punctuation marks at the ends of the sentence to your highlight. But if you start highlighting from the middle of a sentence, period at the end will not be added because KOREader assumes this as a partial highlight. So if you want the punctuation marks to be added to your highlight, be sure that you select the whole sentence. Also you can add them later by long pressing the **Highlight edit** buttons.

Editing a highlight

When you click on an already highlighted text **without a note**, you will see this popup menu. **Delete** and **Add note** items are clear. Bottom row menu items are used to extend or shrink the highlight.



When you click on an already highlighted text **with a note added**, you will see this popup menu. Tap on **Edit highlight** to open the menu above where you can edit both the highlight and the contained note:



Exporting your highlights

There are different ways of exporting your highlights from your reader:

- You can use the **Export Highlights** plugin to export your notes in **text**, **html**, **JSON** or **markdown** formats to your device or export them directly into **Joplin** (a note taking application) over a network (you can find help about this under **Joplin** menu in **Export Highlights** plugin - <https://joplinapp.org/>):

TOP MENU > > Export Highlights

- Also you can export the notes to your **Readwise** account
- You can use an external program named **KoHighlights** on your computer. It can access your book notes and highlights when you plug your reader to your computer: <https://github.com/noembryo/KoHighlights>
- If you are using **Calibre**, you can import highlights into your database with **KOREader Sync** plugin. You can install mentioned plugin within **Calibre**.

NOTE: When you open a document in KOREader, it creates a directory alongside the document with same name as the document. This directory contains a .LUA file which includes all the highlights and user options (formatting properties etc.) related to that document. You can manually backup/restore these directories.


KEYBOARD USAGE AND TIPS

- Tap outside the input field to close the keyboard, tap the input field to show the keyboard again
- **Swipe up** keys to enter uppercase version of that letter (or lowercase if you are already in **shift** mode)
- You can change the appearance of the keyboard:

TOP MENU >  > Device > Keyboard > Keyboard settings

- You can select more than one layout:

TOP MENU >  > Device > Keyboard > Keyboard layout

- You can change between your selected layouts by tapping  icon on the keyboard

Entering extra characters

Koreader keyboard allows entering extra characters when you tap and hold a key. Most frequently used extra characters are shown below. You can tap and hold the key in the **gray box** to get the surrounding characters:

			URL			MARKUP/LIST			CURRENCY			FRACTIONS			REGEX		
!	i		http://	@	~	:)	:	:(₹	฿	₺	‰	%	‰	^	&	\$
1	?		https://	2	-	★	#	☑	¥	\$	₱	¼	5	⅓	=	:	'
'	¿		/	"	...	•	3	□	£	4	₹	¾	½	⅔	?	.	!
						☆	№	☒	₪	€	₺				/		\
DIACRITICS MODIFIERS			TYPOGRAPHY			MATH						CSS					
̄	̇	̈	†	■	‡	≤	≈	≥				[+]			
̀	^	ˆ	«	&	»	≠	*	=	"	(-	")	{			
˜	6	ˆ	§	7	¶	-	8	+	{	9	-	}	0	-			
˙	˚	ö	<	▣	>	<	/	>	'	[-	']	-			

Additionally there are some shortcuts for easier text manipulation. You can tap and hold these keys for the actions:

Backspace - Deletes all characters from the cursor to the beginning of the line.

Left Arrow - Moves the cursor to the beginning of the line.

Right Arrow → - Moves the cursor to the end of the line.

For more information you can check the related wiki page: <https://github.com/koreader/koreader/wiki/Virtual-keyboard>

KOReader also integrates the Chinese stroke keyboard for inputting simplified and traditional Chinese characters. You can find more info about it in our wiki: <https://github.com/koreader/koreader/wiki/Chinese-keyboard>

AUTO WARMTH AND NIGHT MODE

This plugin allows you to adjust frontlight warmth in devices with natural (yellow/orange) light and set **Night Mode** (inverted screen colors – white text on black background) automatically according to a schedule. It can control them both or you can choose **only warmth control** or **only Night Mode control** mode, so you can adjust the other one manually.

This plugin comes enabled as default. If it is not there, you can enable it via:

TOP MENU >  > More tools > Auto Warmth and Night Mode

You can adjust the warmth of your screen frontlight automatically in two different ways:

- **FIXED SCHEDULE:** In this mode your frontlight warmth changes according to the daily schedule you entered. This mode is **STATIC**, it doesn't account for daylight length. The schedule stays the same all around the year.

- **SUN'S POSITION:** This option calculates Sun's position in your location according to **COORDINATES** and **ALTITUDE** information you entered. Frontlight warmth is adjusted gradually according to this calculated Sun position data. This mode is **DYNAMIC**. As the length of daylight changes around the year, plugin adjusts the schedule accordingly.

Frontlight auto on/off

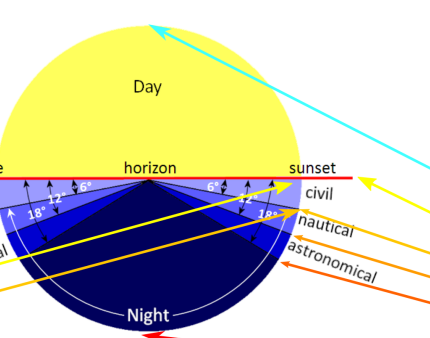
This feature turns your frontlight on at sunset and turns it off at sunrise according to your **Currently active parameters** in this plugin. You can override this change by manually turning your frontlight on/off. On the next sunrise/sunset, **AutoWarmth** will toggle it again if it is necessary. You can activate it by selecting **Frontlight off during the day** menu item in this plugin.

USAGE

First have a look at this image to familiarize yourself with the terms used in the plugin:

NORMAL MODE provides a two level screen warmth change

If you want more gradual changes enable **EXPERT MODE** which provides six levels



NORMAL MODE

Currently active parameters:	
Twilight:	06:58 (☽60%)
Sunrise:	07:33 (☽10%)
Sunset:	16:20 (☽10%)
Twilight:	16:55 (☽60%)

EXPERT MODE

Currently active parameters:	
Solar midnight:	23:56:30 (☽90%)
Dawn	
Astronomic:	05:42:21 (☽80%)
Nautical:	06:19:39 (☽70%)
Civil:	06:58:26 (☽60%)
Dawn	
Sunrise:	07:33:28 (☽10%)
Solar noon:	11:56:43 (☽0%)
Sunset:	16:20:10 (☽10%)
Dusk	
Civil:	16:55:19 (☽60%)
Nautical:	17:34:07 (☽70%)
Astronomic:	18:11:25 (☽80%)
Dusk	
Solar midnight:	23:56:52 (☽90%)

Example visualization of frontlight color

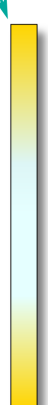


Image source: National Oceanic and Atmospheric Administration

FIXED SCHEDULE MODE

1. Go to the plugin menu:

TOP MENU >  > Screen > Auto Warmth and Night Mode

2. Tap Activate menu item and then **ACCORDING TO THE FIXED SCHEDULE**

3. Go back to previous menu and tap **FIXED SCHEDULE SETTINGS** menu item

4. Set your warmth transition schedule by setting times for various items here. Refer to the image above for an explanation of items.

SUN'S POSITION MODE

1. Go to the plugin menu:

TOP MENU >  > Screen > Auto Warmth and Night Mode

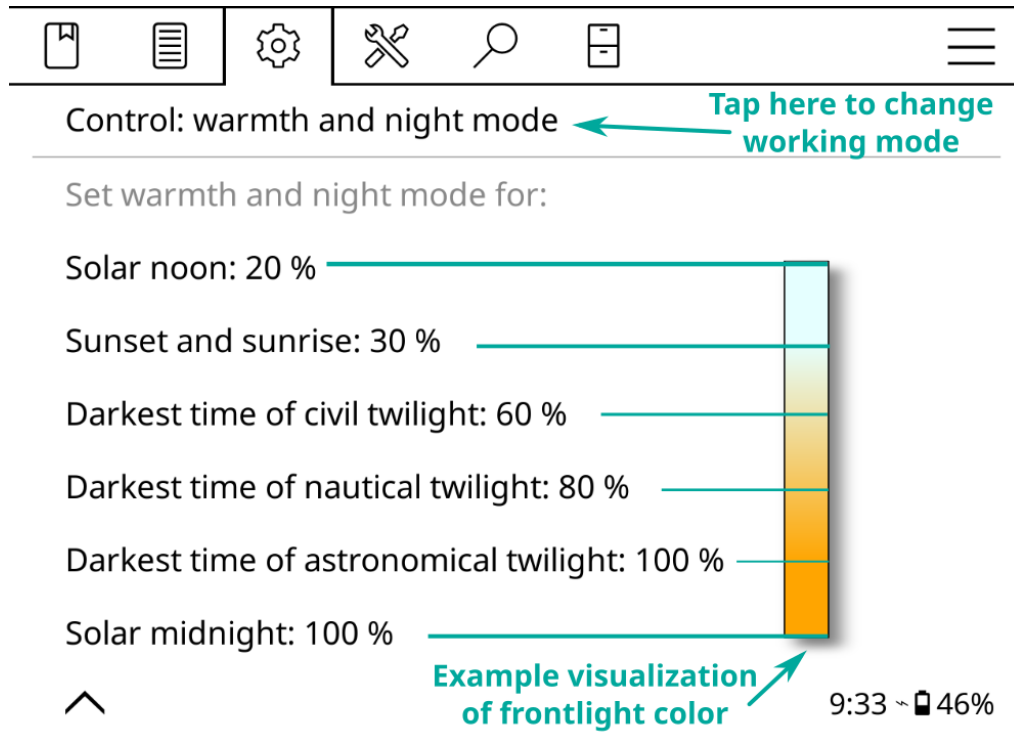
2. Tap **ACTIVATE** menu item and then **ACCORDING TO THE SUN'S POSITION**

3. Go back to previous menu and tap **LOCATION SETTINGS** menu item. Set your **coordinates** (necessary) and **altitude** (optional) correctly and give a **name** to your location.

4. Go back to previous menu and tap **WARMTH AND NIGHT MODE SETTINGS** menu item

5. Set your warmth transition schedule by setting times for various items here. Refer to the image above for an explanation of items.

You can see your current schedule via **CURRENTLY ACTIVE PARAMETERS** menu option.



Night Mode

While setting the warm light percentages for different intervals, you can also set that interval to **Night Mode**, which inverts the screen colors when that interval starts. If your minimum frontlight is still too bright or if you prefer a dark page background, you can activate this feature. To enable this, in the dialog on the right, you can tap **Use night mode**.

When you do this, warm light percentage will increase to **110%** indicating that this interval has Night Mode activated. You will see a **moon icon** in the menu next to this interval. To disable Night Mode you can decrease the percentage to any value under 110.

If you want to manage **Night Mode** manually (or the reverse) you can change the working mode of this plugin by tapping on the option shown above.

Solar midnight

Enter percentage of warmth.

▲

110

▼

Use night mode

Close Set

MOVING THROUGH YOUR BOOK

There are many different ways of moving through your document in KOREader.

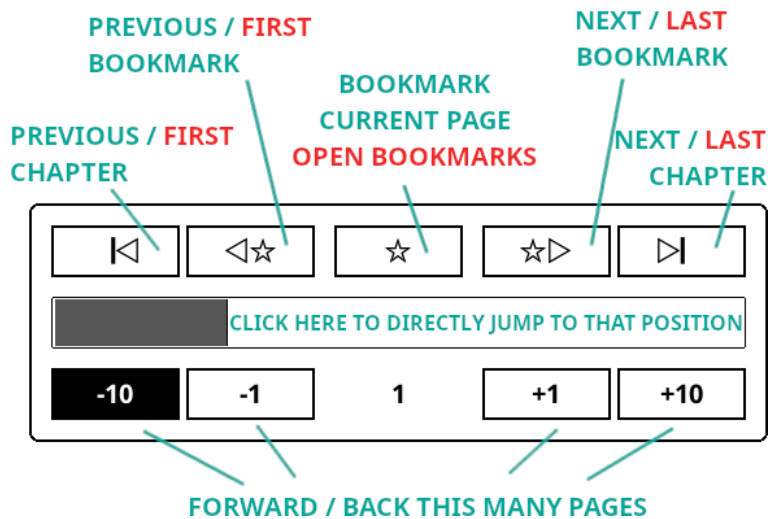
You can use the **SKIM WIDGET**, **BOOK MAP** or **PAGE BROWSER** features.

SKIM WIDGET

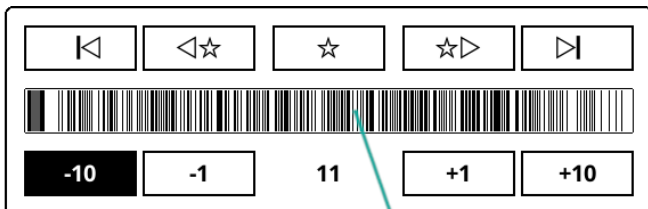
You can open this widget via:

TOP MENU >  > Skim document

RED ACTIONS ARE AVAILABLE ON LONG PRESS



CHAPTER MARKS



SKIM DOCUMENT DIALOG

CHAPTER MARKS FROM TABLE OF CONTENTS

PROGRESS BAR

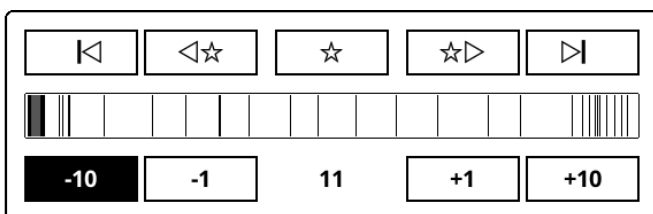


KOREader can show chapter boundaries from your documents on the **SKIM WIDGET** and **PROGRESS BAR**.

If your document has too many heading levels, your chapter marks can look crowded like the example on the left. You can change the depth of visible ToC mark levels via:

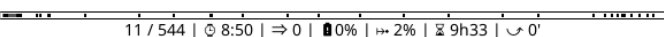
TOP MENU >  > Settings > Progress Bars

You can also use this reduced ToC for chapter titles (if it is shown on **Status Bar**), chapter navigation and **reading time left** estimates. These options are in the same menu.



SAME BOOK WITH ToC DEPTH 2 INSTEAD OF 3

TOP MENU >  > Settings > Alternative table of contents



BOOK MAP

Book map is a powerful and unique feature of KORReader which can be very useful for getting an overview of a book. For example if you are reading a book non-linearly by skipping some parts to read them later, it would be hard to track your progress. **Book Map** can show you which parts of the book you have already read, at a glance. Additionally you can:

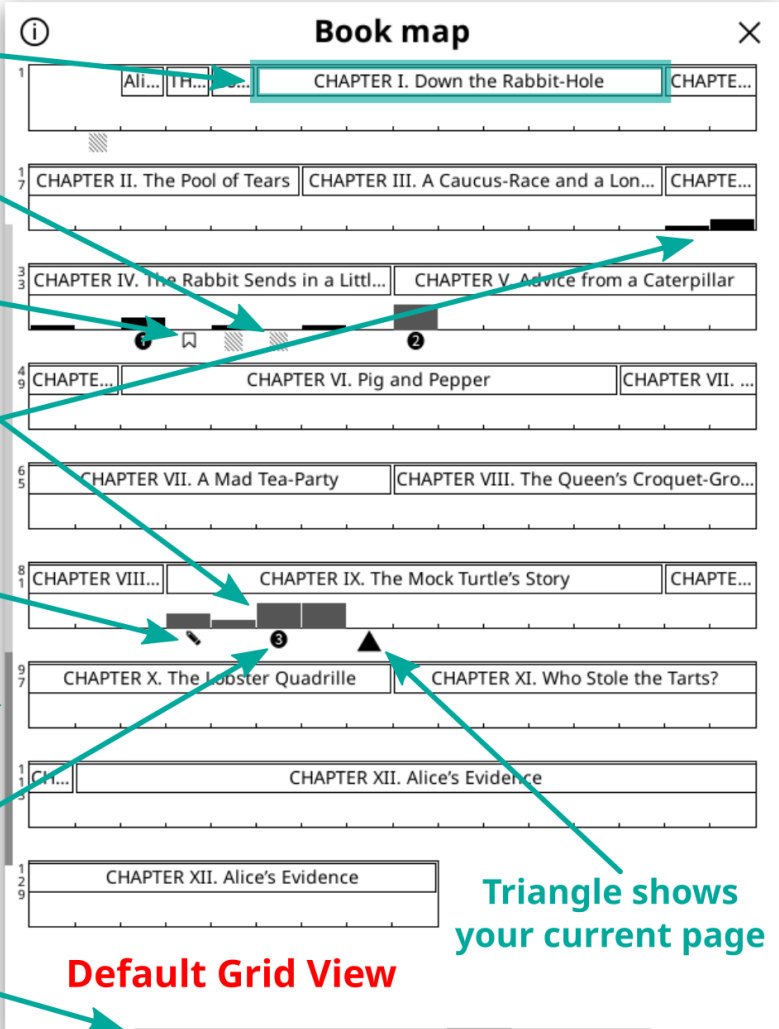
- See how much time you have spent on each page (if **Reading Statistics** plugin is enabled)
- Check which pages have bookmark, highlights and notes
- Navigate directly to any part of the book like the **SKIM WIDGET**

You can access **Book Map** via menu and you can also assign a gesture for quicker access:

TOP MENU >  > Book map

USER INTERFACE AND CONTROLS

When you open the **Book Map** first time while reading a book, it will be in **Grid View** mode, fitting all chapters on a single screen to give the best initial overview of the book's content. To get a detailed information about usage, tap the info icon at the upper left corner. You can close the Book Map by clicking **X** on the upper right corner or with any multiswipe gesture (**UP-DOWN**, **LEFT-RIGHT** etc.).

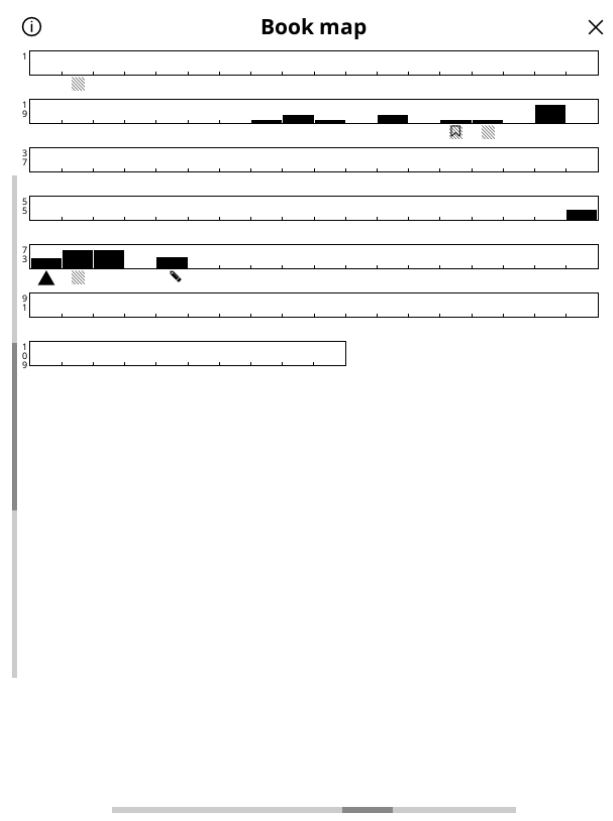
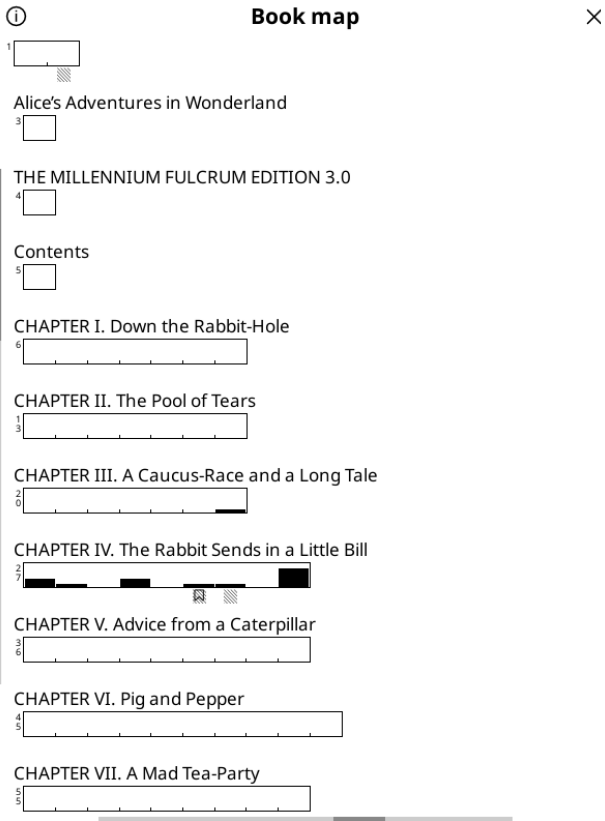


The screenshot shows the 'Book map' interface in 'Default Grid View'. It displays a grid of chapters from 'Alice's Adventures Under Ground'. The chapters are: CHAPTER I. Down the Rabbit-Hole, CHAPTER II. The Pool of Tears, CHAPTER III. A Caucus-Race and a Long... (truncated), CHAPTER IV. The Rabbit Sends in a Littl... (truncated), CHAPTER V. Advice from a Caterpillar, CHAPTER VI. Pig and Pepper, CHAPTER VII. A Mad Tea-Party, CHAPTER VIII. The Queen's Croquet-Gro... (truncated), CHAPTER IX. The Mock Turtle's Story, CHAPTER X. The Lobster Quadrille, CHAPTER XI. Who Stole the Tarts?, and CHAPTER XII. Alice's Evidence. The interface includes a top bar with an info icon (i) and a close icon (X). A vertical scrollbar on the left shows the current view level, with numbers 1 through 12 in circles indicating previous locations. A horizontal scrollbar at the bottom shows the current page width level. Annotations with arrows point to various features: 'Chapter boundaries' points to the grid lines; 'Blocks with diagonal stripes shows pages with highlights' points to a striped block; 'Bookmark icon shows bookmarked pages' points to a bookmark icon; 'Dark columns indicate read pages Higher=more time spent on page' points to dark blocks; 'Pencil icon shows pages with notes' points to a pencil icon; 'Vertical scrollbar shows your current view level' points to the scrollbar; 'Numbers in a circle show your previous locations' points to the circled numbers; 'Horizontal scrollbar shows your current page width level' points to the bottom scrollbar; and 'Triangle shows your current page' points to a triangle icon. The text 'Default Grid View' is written in red at the bottom center.

You can customize **Book Map** by changing these options:

- First try swiping **LEFT** and **RIGHT** along the bottom edge of the screen to change width of columns indicating pages and observe how it changes the scale of map
- Then try swiping **UP** and **DOWN** along the left edge of the screen to change chapter title depth and switch to the **Flat View**. See examples below.

In addition to default **Grid View** above, here you can see the **Flat View** on the left and **Grid View** without chapter titles on the right. Note the changing left vertical scrollbar between views. If you want to switch back to the default view, you can long-press the info icon at the upper left corner.

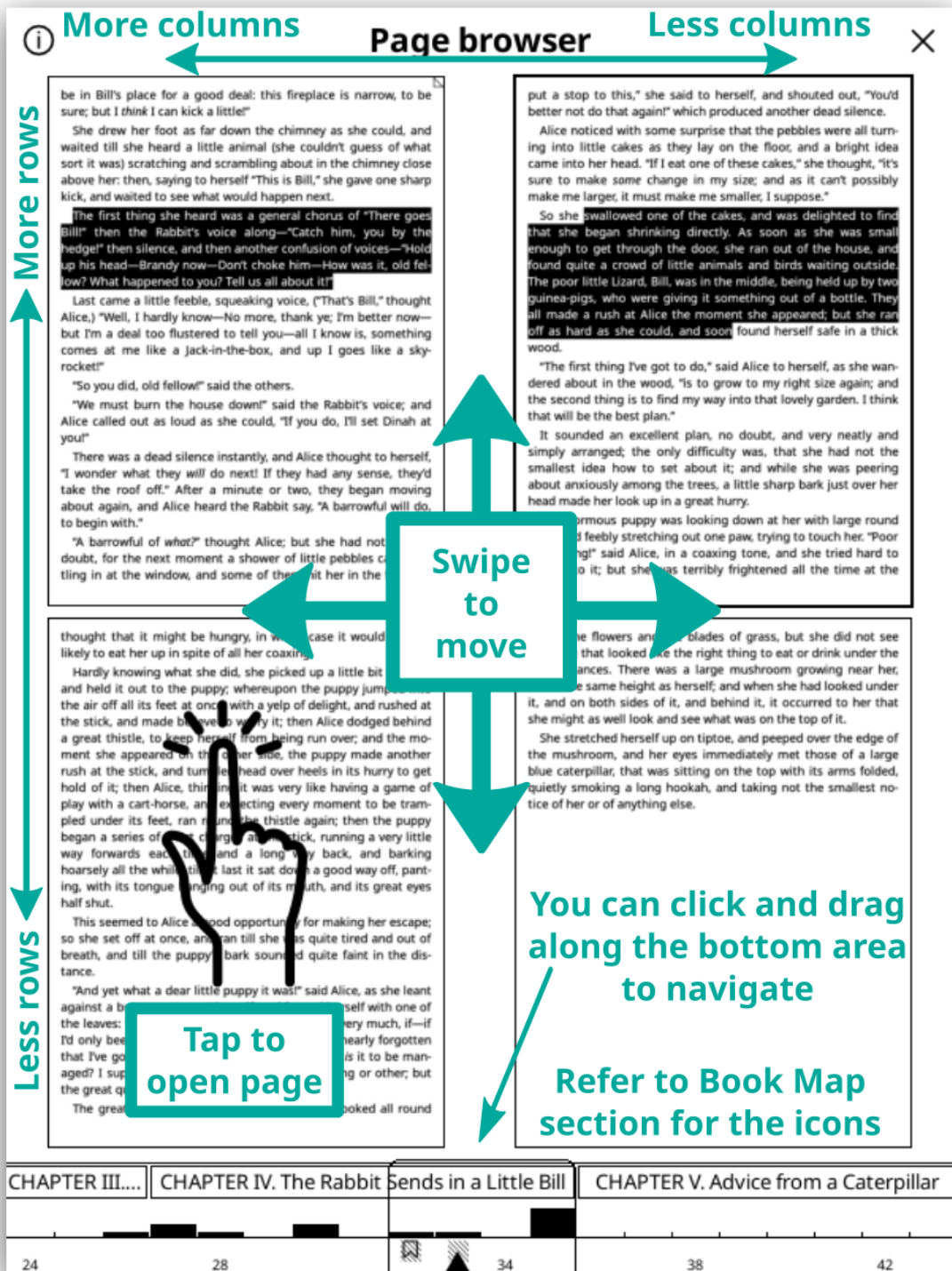


PAGE BROWSER

Page Browser can be used to navigate between pages like in a photo album by showing thumbnails of the pages as a grid. You can open **Page Browser** by tapping on the **Book Map** or from the menu. You can also assign a gesture for quick access.

TOP MENU >  > Page browser

You can change the number of pages shown by swiping along the **TOP** and **LEFT** sides of screen. Icons on the bottom are the same as **Book Map**. Actually the bottom part is a linear version of the **Book Map**.



The screenshot shows the Page Browser interface with several annotations:

- More columns** (left arrow) and **Less columns** (right arrow) at the top.
- More rows** (up arrow) and **Less rows** (down arrow) on the left side.
- Page browser** title in the center.
- Swipe to move** (four arrows pointing up, down, left, right) in the center.
- Tap to open page** (hand icon) pointing to a page thumbnail.
- You can click and drag along the bottom area to navigate** (hand icon) pointing to the bottom navigation bar.
- Refer to Book Map section for the icons** (hand icon) pointing to the bottom navigation bar.

The interface displays text from a book, with a bottom navigation bar showing chapter titles and page numbers:

CHAPTER III...	CHAPTER IV. The Rabbit Sends in a Little Bill	CHAPTER V. Advice from a Caterpillar
24	28	34 38 42

READING PDFS

There are many ways to read a PDF/DJVU document optimized for bigger (generally A4 or Letter) page sizes:

1. You can enable **REFLOW** from

BOTTOM MENU > AA > **Reflow**

Reflow tries to extract the text portion from your document (if it is available) and format it as a single column. Results are generally satisfactory. You can also set this as **DEFAULT** by tapping and holding on it.



2. You can enable **ZOOM TO CONTENT** via this menu item you can see in the image above:

BOTTOM MENU >  > 

With this option KOREADER tries to crop margins from your document so text may look bigger on your screen. You can set **FIT** to **WIDTH** in the same menu which will try to fit only page width instead of whole page, so your text will look bigger.










3. Also you can try to use your device in **LANDSCAPE** orientation. This will make your screen wider so your document may look big enough to read comfortably:

BOTTOM MENU > 

4. If you wish you can see your document at full size and scroll to read different parts. This is especially helpful with comic books.


First enable **COLUMN MODE** from this menu item:

BOTTOM MENU >  > 

Then select an appropriate flow direction for your document from the same menu:         

- For example if you are reading an article which has two columns, you will scroll down until the end of page reading left column

then go to right upper side to continue reading right column: 

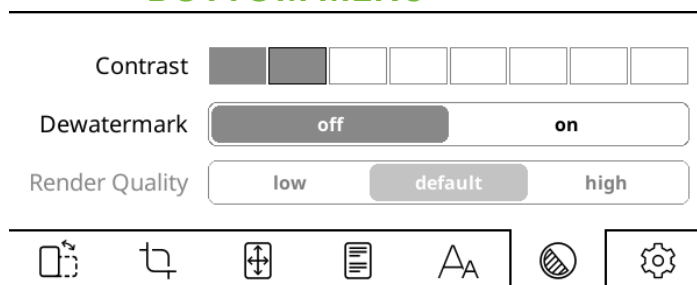
- Or if you are reading a comic book, you will go right>left down>right in a zigzag pattern: 

- For a Japanese comic book (right-to-left panel order) this might be the reverse: 

In this mode you can also adjust **Horizontal / Vertical Overlap** and **Number of Columns** from the same menu to fit text on your screen better. Feel free to experiment with settings.

EXPLANATIONS OF PDF SPECIFIC MENU ITEMS

BOTTOM MENU >

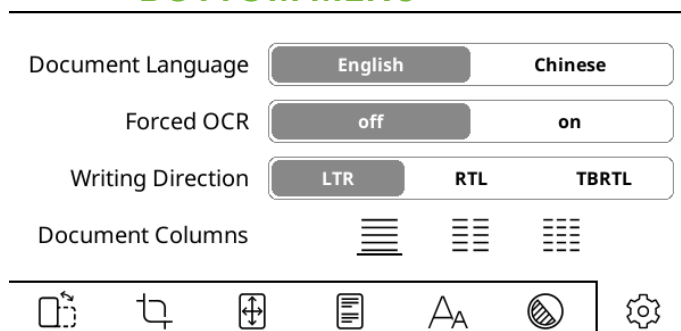


CONTRAST This setting adjusts black levels in your document. Be aware that same contrast value applies to both text and images in your document. If you set it very high, your images may become too dark to be readable.

DEWATERMARK Removes watermarks from the rendered document. It can also be used to remove gray backgrounds. This feature can convert a grayscale or color document to black & white to produce more contrast for easier reading.

RENDER QUALITY (REFLOW MODE) Sets the quality of text and image extraction processing and output. **HIGH** is more pleasing but it can be much slower (several seconds for page turn) than **DEFAULT** depending on your document. If your PDF/DJVU files are slow, this is the first setting you should check.

BOTTOM MENU >



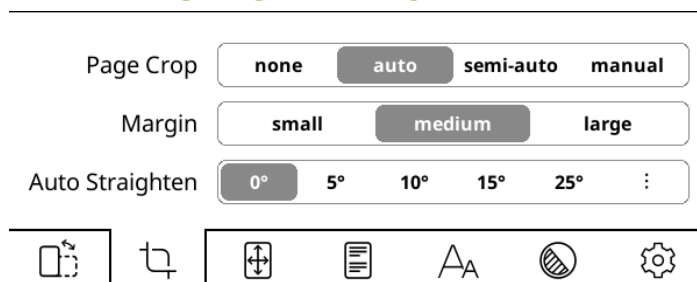
DOCUMENT LANGUAGE Sets the language to be used by the OCR engine.

FORCED OCR Force the use of OCR even if the document has a text layer

WRITING DIRECTION (REFLOW MODE) Text direction of original document. Set to RTL for languages like Arabic and Hebrew.

DOCUMENT COLUMNS (REFLOW MODE) Number of text columns in the original document.

BOTTOM MENU >



AUTO STRAIGHTEN feature can straighten the pages of a problematic document, for example pages of a PDF which are scanned with an angle. It is available in PDF, DJVU, CBZ/CBT documents and image files. To enable, choose the maximum tilt angle which KOREader will try to correct. If it doesn't correct you might have to choose a bigger angle. Note that this feature might slow down your reader depending on several factors.

OCR (Optical Character Recognition)

OCR (Optical Character Recognition) is the process of extracting text from images into machine readable format. In KOREader context, it is generally used for extracting text from scanned book pages in PDF files. KOREader relies on **Tesseract Open Source OCR Engine** for this task (<https://github.com/tesseract-ocr/tessdoc>).

In order to use this feature you need to:

1. Install Tesseract language data to your KOREader
2. Add newly installed languages to koreader/defaults.lua configuration file (necessary only if your language is other than English or Chinese)

NOTE: Buttons on OCR menu has no function until you install the necessary **Tesseract** files.

Details of this process can be read in the related wiki page:

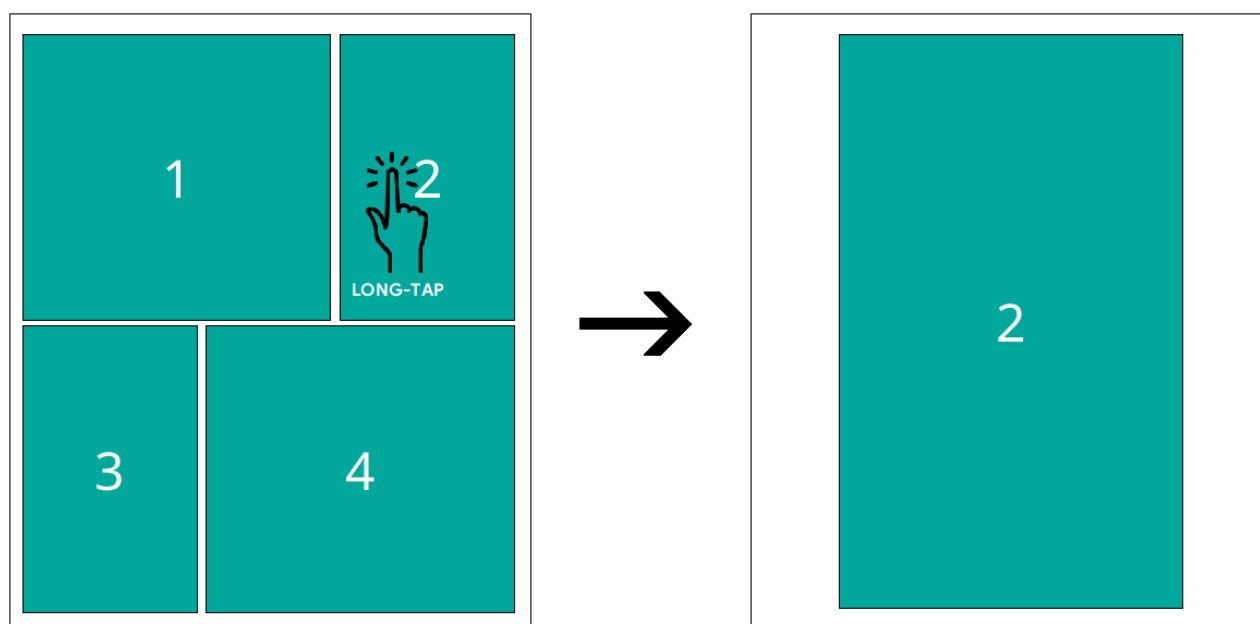
<https://github.com/koreader/koreader/wiki/Dictionary-support#dictionary-lookups-in-scanned-pages>

Panel Zoom (manga/comic)

This feature makes reading comic books easier on smaller screens. You can enable it while you are reading a PDF, DJVU, CBZ or CBT document via:

TOP MENU >  > Panel Zoom (manga/comic)

When this option is enabled, KOREader tries to find the boundaries of rectangular panels on the screen. If you long-tap on a panel, KOREader zooms in to that panel. As you can guess, this feature works best with comics that has clean panel boundaries. Procedure can be seen below:



If you want to use this feature with other file types like EPUB, FB2, HTML or image files, you should open the file with a different engine: In the **File Browser** long-tap on the file name, tap **Open with...** and select **MuPDF**.

DEVICE

How can I transfer books, articles to my device ?

KOReader supports PDF, EPUB, DJVU, MOBI, CBZ, CBT, DOCX, RTF, HTML, TXT, XPS, FB2, PDB, CHM and ZIP files.

KOReader can reflow PDF documents (this option can be found in the bottom menu while reading a fixed-layout document like PDF) to make them suitable for the small screens of e-readers. But for best results, you may want to convert your documents into more flexible EPUB format. You can use **Calibre** (<https://calibre-ebook.com/>) for all kinds of conversion between formats.

There are many ways to transfer your documents to your device. Note that you may need to restart KOReader to index the transferred documents (or refresh directory if you have Pocketbook/Android).

In addition to transferring files the same way you would with the built-in reader application, other options are available depending on your device:

1. USB mass storage mode within KOReader: This mode is available for KOBO and some CERVANTES devices.

2. Cloud storage (Dropbox/FTP/Webdav): To use this function you have to add accounts for a cloud storage server via menu shown below. Process is explained via **INFO** buttons while adding accounts:

TOP MENU (in File Browser) >  > Cloud storage

3. SSH/SFTP access: KOReader can act like an SSH server, which you can access from a computer to transfer files (available on Kobo, Kindle, Cervantes). You can use an SFTP application (like **Filezilla**) or access via your file manager if your operating system supports. Check wiki for how-to: <https://github.com/koreader/koreader/wiki/SSH>

4. Calibre transfer: With the **Calibre** plugin you can send documents from your Calibre Library directly to your KOReader devices via a wifi connection. Check wiki for how-to: <https://github.com/koreader/koreader/wiki/Calibre-wireless-connection>

5. News downloader: With this plugin you can download RSS and Atom news entries as HTML files. Check wiki for how-to: <https://github.com/koreader/koreader/wiki/News-downloader>

6. Wallabag: With this plugin you can retrieve articles from **Wallabag**, a server based read-it-later service like Pocket. Check wiki page for more info: <https://github.com/koreader/koreader/wiki/Wallabag>

How can I control the backlight / frontlight of my screen ?

You can control your screen light via this menu. If you have warm lighting (normal white LEDs+orange ones) you can control them separately from this dialog. You can also define a gesture for this dialog:

TOP MENU >  > Frontlight

How can I change the screen displayed while sleeping ?

You can choose a book cover or a custom image as screensaver via this menu:

TOP MENU >  > Screen > Screensaver

You can use JPG/PNG files as screensaver (properly dithered grayscale images look best). Transfer the files from your computer into any folder on your device. And choose this folder as your screensaver folder via this menu:

TOP MENU >  > Screen > Screensaver > Settings

Refer to this forum post for advanced information about screensaver images:

<https://www.mobileread.com/forums/showpost.php?p=3728291&postcount=17>

How can I see my battery consumption details ?

You can see your detailed battery usage statistics via this menu item:

TOP MENU >  > More Tools > Battery Statistics

How can I see my system statistics ?

You can see your system information like **CPU / DISK SPACE / RAM** usage via this menu item:

TOP MENU >  > Help > System statistics

GESTURES, QUICKMENU AND PROFILES

These are the types of gestures you can use to control KOReader. Some gestures have limitations regarding where they can be used on the screen and which directions are supported. These limitations are indicated below.

Note that some devices support only single touch. So multi-finger gestures are not available on them.



TAP / DOUBLE TAP


Single or double tap with **ONE** finger

WORKS: Anywhere on the screen



ONE FINGER SWIPE

Swiping motion with **ONE** finger

WORKS: Screen edges  Anywhere except edges 



TAP AND HOLD


Single tap and hold with **ONE** finger

WORKS: Only on four corners



TWO FINGER SWIPE

Swiping motion with **TWO** fingers at the same time

WORKS: Anywhere on the screen  



TWO FINGER TAP

Single tap with **TWO** fingers at the same time

WORKS: Only on four corners



MULTISWIPE

More than one swipe done after each other without lifting your finger.

For example like drawing the letter **U=DOWN-RIGHT-UP**

WORKS: Anywhere on the screen



SPREAD AND PINCH

Same gesture as zooming in and out on a mobile phone, tablet etc.

WORKS: Anywhere on the screen

NOTE: This gesture may work less reliably depending on your device. If that's the case please choose another gesture type.

PREDEFINED GESTURES

This table shows the gestures available when you install KOREader for the first time. You can change these gestures according to your preferences via:

TOP MENU >  > Gesture Manager

Also at the end of this guide, you can find an empty version of the full gestures table for printing. You can write down your modified actions for your gestures as a reference sheet for easy remembering.

TAP CORNER

Top Left Corner	Toggle page flipping
Top Right Corner	Toggle bookmark

DOUBLE TAP

Left Side	Go -10 pages
Right Side	Go +10 pages

ONE FINGER SWIPE

Short diagonal swipe	Full screen refresh
----------------------	---------------------

MULTISWIPE

←→	Back to previous location
→←	Go to latest bookmark
↓↑	Skim document
↑←	Bookmarks
↑→	Table of contents
↓←	Show frontlight dialog
↓→	Toggle reflow
→↑	History
←↑	Book status
→↓	Go to page
←↓	Back
↑↓↑	Previous chapter
↓↑↓	Next chapter
←→←	Open previous document
→←→	Favorites

QuickMenu

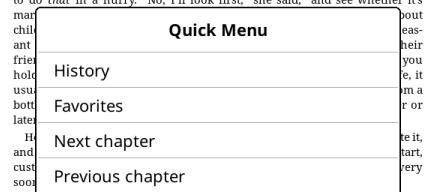
QuickMenu is a recent feature of KOREader which allows you to have a quickly accessible personalized menu. You can assign this menu to a gesture and access it with a single swipe. You can see an example menu on the right.

Basically, any action you can assign a gesture can be added to the **QuickMenu**. Its advantages are:

1. You don't need to memorize lots of gestures for every action.
2. Some infrequent actions may not worth a gesture but it can be too much hassle to find it in the menu system. You can add this kind of rarely used actions to this menu instead.
3. If you are installing KOREader for a relative or friend, you can add their favorite actions to this menu so they don't even need to go into the menu system while using KOREader.

the table, half hoping she might find another key on it, or at any rate a book of rules for shutting people up like telescopes: this time she found a little bottle on it, ("which certainly was not here before," said Alice,) and round the neck of the bottle was a paper label, with the words "DRINK ME," beautifully printed on it in large letters.

It was all very well to say "Drink me," but the wise little Alice was not going to do that in a hurry. "No, I'll look first," she said, "and see whether it's



about eas-
heir
you
e, it
m a
r or

te-
face
bing
for

for a few minutes to see if she was going to shrink any further: she felt a little nervous about this; "for it might end, you know," said Alice to herself, "in my going out altogether, like a candle. I wonder what I should be like then?" And she tried to fancy what the flame of a candle is like after the candle is blown out, for she could not remember ever having seen such a thing.

After a while, finding that nothing more happened, she decided on going

01:50

How to create a QuickMenu ?

There are two methods for creating a **QuickMenu**. **Easy** and **Advanced**. If you need only one menu, **Easy method** should be enough for you. If you want show different menus with different gestures you need to use **Advanced method**. Another advantage of **Advanced method** is that, if you want to use another gesture for your menu you can easily move it to another gesture. If you want to use another gesture while using the **Easy method**, you have to re-create your menu under the new gesture.

Easy method

1. Go to **Gesture Manager** menu via:

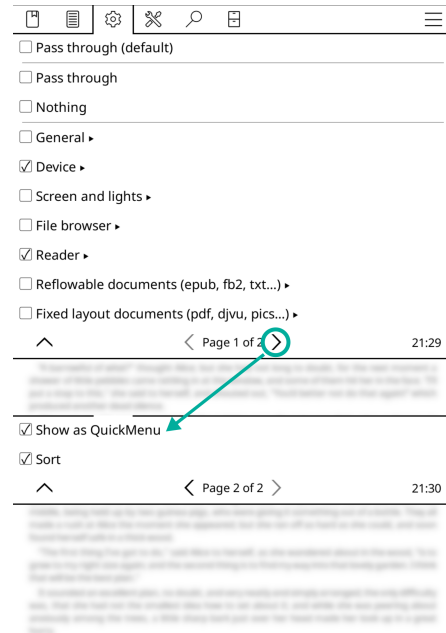
TOP MENU >  > Taps and Gestures > Gesture Manager

2. Decide a gesture for opening your menu and tap on it.
3. Choose the actions you want to see in your menu from the gesture configuration menu. You can select many actions at once of course.

4. After selecting all your actions, you will tell KOREader to treat this gesture as a menu. You achieve this by enabling **Show as QuickMenu** item on the second page as you can see in the picture:

5. You can sort your menu items with the **Sort** option just below it.

Now you can launch your menu with the gesture you selected. If you want to change the menu items, you can open the gesture page and add/remove items.



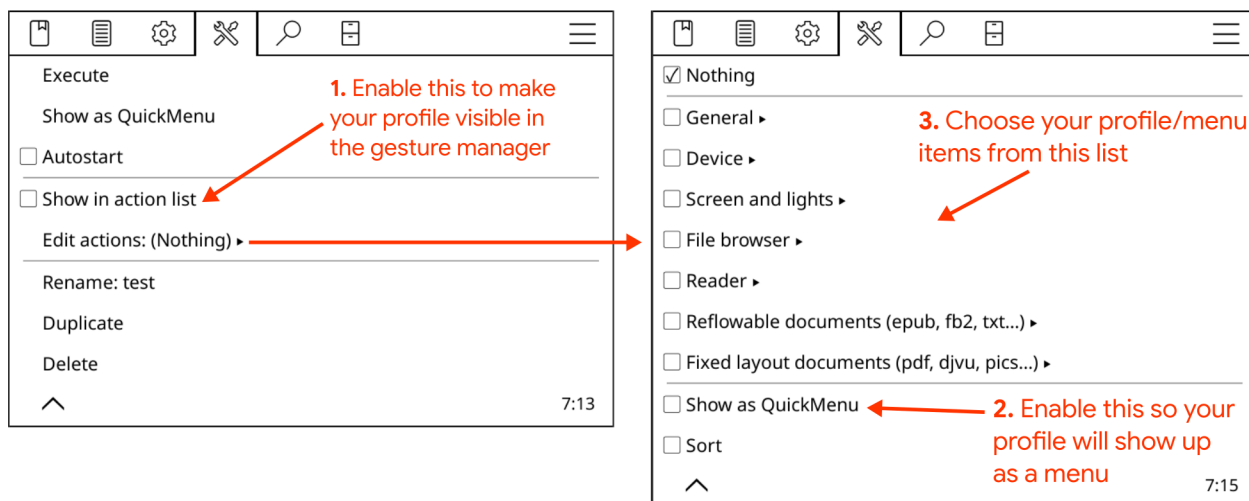
Advanced method

NOTE: As we said above, if you are not planning to add more than one **QuickMenu** you don't need this section.

QuickMenu is actually a **Profile** which appears on your screen as a menu. So first you have to learn about **Profiles**. If you already know how to use **Profiles**, you can continue reading, otherwise jump to the **Profiles** heading (next section), create a **Profile** with some items and come back here.

I assume you created a **Profile** as instructed in the previous paragraph. Now we will turn our **Profile** into a **QuickMenu**.

- Go to your newly created **Profile** and enable **Show in action list** (refer to the image below). This will make your **Profile** visible in the **Gesture Manager**. Also enable **Show as QuickMenu** (also in the image below) so your profile will be shown as a menu instead of being silently executed.



- Now we need a way to access our menu. Go to the **Gesture Manager** and choose a gesture from the list to assign to our menu. Let's say we want to tap the corner of the screen to show menu. Now tap on **Tap corner** then choose **Bottom left**. Now tap on **General** and go to the second page. You will find your profile as **Profile x** where **x** is the name you gave to this **Profile**. Tap on its checkbox to assign your profile to this gesture.

After all the steps, now you should see your menu when you tap on the bottom left corner. You can edit your menu by going to its **Profile** page where you can add or remove items. Also there is a **Sort** item there so you can change the order of your menu items.

As we said, a **QuickMenu** is actually a **Profile**. Which means you can have more than one menu. You can create another **Profile** and follow the same steps to create another menu if you want.

Profiles

A profile is basically a collection of actions that can be triggered with a single tap (like a macro).

As an example, imagine that when reading some type of books, you always:

- Rotate the screen to landscape orientation
- Increase the font size and contrast and
- Turn the screen light on

With the profiles plugin, you can do all these at once with a single action.

NOTE: When you activate another profile, changes made in the first profile are not reversed. For example, you activate a profile which sets your font size from **20** to **24**. Then you activate another profile that adjusts your **fontlight**. Your font size stays at **24** after activating the second profile. Because profiles in KOReader doesn't have an exit or reverse action.

Usage

First be sure that **Profiles** plugin is activated. If you don't see it under:

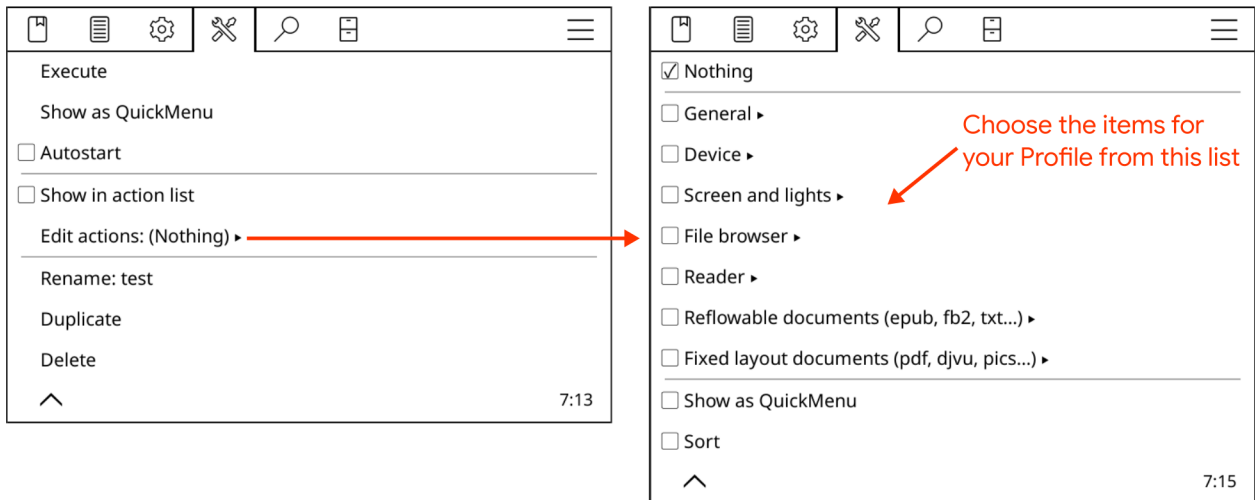
TOP MENU >  > Profiles

then you have to turn it on from:

TOP MENU >  > More tools > Plugin management

Creating a profile

In **Profiles** menu tap **New** and give a descriptive name for your profile. Now you should see your new profile in the menu. Tap on it and you will see the screen on the left side. You can also **Delete**, **Rename** or **Duplicate** a profile from this menu.



When you tap on **Edit actions** menu item you will see the menu on the right. This is the same menu as the gesture selection menu and there are actions in many categories. Which means you can perform any **Gesture** action using a **Profile**.

You can now select several items from all these categories. The actions you selected here will be performed when you activate this profile.

Activating a profile

There are many ways to activate a profile:

1. You can activate a profile with a **long press** on its name from this same **Profiles** menu
2. You can activate a profile using a gesture. For this, you have to enable **Show in action list** from the profile's menu. Now you can select it via:

TOP MENU >  > **Taps and gestures** > **Gesture manager** > **"ANY GESTURE"** > **General** > **Profile "Your profile name"**

3. You can also activate a profile automatically when KOReader starts if you enable **Autostart** in the Profile's menu. Note that this is only possible when KOReader is starting with the **File browser** or **Last file**.

Technical details of Profiles and QuickMenu

ADVANCED

In KOReader we have a **set of actions/settings** and this set can be created in two ways:

1. As a profile (which is explained as the **Advanced Method** and stored in **settings/profiles.lua**)
2. As a list of actions assigned to a gesture (which is explained as the **Easy Method** and stored in **settings/gestures.lua**)

This set can also be **executed** in two different ways:


1. Applying each action in the (sorted) order when triggered (as a **Profile**)
2. Showing it as a **QuickMenu**

Adding/removing actions of a set and enabling/sorting **QuickMenu** are done via the same **actions menu**. The only difference is that the actions menu in the Gesture manager has two more items (Pass through), that is why **Show as QuickMenu** and **Sort** items are on the second page.

PLUGINS

Plugins are small applets that add various functions to your KOReader. You can enable/disable them via:

TOP MENU >  > More tools > Plugin management

- Auto frontlight** Automatically toggles the frontlight according to ambient light level (Only available on Kindle Voyage and Oasis)
- Auto warmth and night mode** Allows you to adjust frontlight warmth in devices with natural (yellow/orange) light and set Night Mode automatically according to a schedule
- Auto power save** Puts the device into standby, suspend or power off after specified periods of inactivity
- Autosuspend** Suspend device after chosen period of inactivity (available on all e-ink devices except android os)
- Autoturn** Automatically turns the page after a set period of time
- Background runner** Service to other plugins: Allows tasks to run regularly in the background.
- Battery statistics** Collects and displays battery usage statistics of your device
- Book shortcuts** Allows adding a book shortcut to a gesture
- Calibre** You can send documents from your Calibre Library directly to your KOReader devices via WiFi connection. Check the wiki for how-to: <https://github.com/koreader/koreader/wiki/Calibre-wireless-connection>
- Cover browser** Allows cover display modes for file browser and history
- Cover image** Saves the cover image of the current book as a file (available on Android/PocketBook/reMarkable devices)
- Export highlights** Export highlights and notes to local files or to Joplin (a note taking application)
- Flashcard trainer** Show flashcards using spaced repetition (SM2) of highlight from your library
- Gestures** Provide gesture support for KOReader
- Japanese support** Japanese language support for KOReader that extends built-in dictionary and selection system
- Keep alive** Keeps the device awake to prevent automatic WiFi disconnects
- Move to archive** Moves current document to archive folder
- News Downloader** Retrieves RSS and Atom news entries and saves them as HTML files. Check the wiki for how-to: <https://github.com/koreader/koreader/wiki/News-downloader>
- OPDS** Allows you to download books from online catalogs
- Perception expander** Based on the idea of using peripheral vision to read more quickly. Check this YouTube video to see how it works: [How to Triple Your Reading Speed in 20 Minutes \(Tim Ferriss\)](#)
- Profiles** Allows combining multiple settings to make switchable profiles
- Progress sync** Synchronize your reading progress across different KOReader devices. Check the wiki for how-to: <https://github.com/koreader/koreader/wiki/Progress-sync>
- QR from clipboard** Generates a QR code from clipboard content
- Read timer** A countdown timer to display a message after a user defined time
- Reading statistics** Calculates reading sessions statistics and reading speed for use in chapter/book remaining time estimations
- SSH** Allows access to your device over SSH protocol. You can access via FTP applications or even your file manager if it supports. Check the wiki page for how-to: <https://github.com/koreader/koreader/wiki/SSH>
- System statistics** You can see your extended system info (CPU/RAM/BATTERY) via this plugin under TOP BAR >  > Help > System statistics
- Terminal emulator** Starts a shell (command prompt) on your device that can run full terminal apps
- Text editor** A basic text editor to create and edit plain text files
- Time sync** Synchronizes the device time with NTP servers
- Tweak document settings** Allows tweaking settings of a document before it is loaded based on external factors
- Wallabag** Downloads the latest articles from a [Wallabag](#) server as individual EPUB files. Check the wiki page for more info: <https://github.com/koreader/koreader/wiki/Wallabag>

PREPARING DOCUMENTS FOR YOUR DEVICE

Optimizing EPUB/PDF documents for your mobile reader device

Most widely used applications for converting or optimizing your document for your mobile reading device are **Calibre** (EPUB, Kindle focused) and **K2pdfopt** (PDF focused).

Calibre can convert your documents between many formats. It also has a built-in editor that allows you to edit e-books (and fix problems) in the most popular e-book formats, EPUB and Kindle. <https://calibre-ebook.com/>

K2pdfopt optimizes PDF/DJVU files for mobile e-readers and smartphones. It works well on multi-column PDF/DJVU files and can re-flow text even on scanned PDF files. It can also be used as a general PDF copying/cropping/re-sizing/OCR-ing manipulation tool. <https://www.willus.com/k2pdfopt/>

SingleFile is a browser extension for Mozilla Firefox, Google Chrome and Microsoft Edge. This extension allows saving a web page as a single .html file with all resources (images, stylesheets, scripts) embedded.

<https://github.com/gildas-lormeau/SingleFile#install>

ZIP file support

KOReader can read files stored/compressed in **ZIP** files. A ZIP file can contain many types of documents like html, txt or images. KOReader can open your ZIP file properly if you give it a hint for the type of file in the ZIP archive. If you give your file only a **.zip** extension, KOReader will assume that this archive contains images and try to open it like a **CBZ** file.

DEFAULT CASE: yourfilename.zip Assumed to be a zip file of images (and opened by **MuPDF** engine)

If your zip file contains one of these types (instead of just images), please name it accordingly:

- FictionBook yourfilename.**fb2.zip**
- HTML yourfilename.**htm.zip** / yourfilename.**html.zip**
- Text log files yourfilename.**log.zip**
- Markdown yourfilename.**md.zip**
- Rich Text Format yourfilename.**rtf.zip**
- Plain text yourfilename.**txt.zip**

If the documents are not named like this, the wrong reader/format engine is likely to be used and you will see the **No reader engine for this file or invalid file** message. You can rename this file as mentioned above or long-press the filename and then choose **Open with...** to select the correct engine.

Optimizing manga for your mobile reader device

If you like reading manga books on your e-ink device there are some tips that can make your experience better. Preparing your own manga files is the best solution if you're not satisfied with how comics look on your device.

- File type

File types like MOBI and EPUB are not suitable for handling primarily image content (e.g., manga/comics). **MOBI** support in KOReader is minimal to nonexistent, and **EPUB's** text rendering priorities can cause problems when showing full-page images (for further technical details: <https://github.com/koreader/koreader/issues/9163#issuecomment-1146637205>).

Your best option is building a **CBZ** file which works better in KOReader. A file with **.cbz** extension is a zip file (with no compression) that is a collection of images. It saves multiple images, commonly **.png** or **.jpeg** files, organized into pages of the comic. KOReader can also open **CBT** files, which are similar to **CBZ** files but use **TAR** archive format.

Easiest way to convert a manga to **CBZ** is to get the manga as images from various websites, then convert them using **Kindle Comic Converter** (<https://github.com/ciromattia/kcc>). There are some useful settings like **auto-rotating two-page splits to landscape** and **applying dithering** so that eink-rendered gradients are smoothly dithered without jagged layers.

- Resolution

The best results can be achieved by resizing your images to exactly your e-reader screen size. A screen-specific **CBZ** which targets the exact screen size of the device, prevents rescaling during reading. KOReader downscales your images to your screen size while reading but this is not recommended because KOReader adds a dithering pass before scaling and this causes loss of quality.

But if you want to use your hand made **CBZ** on more than one device or you want to preserve high resolution for future proofing, your best option might be to make the **CBZ** for your highest resolution device. Or pick an arbitrary "high" resolution, possibly one that matches the source. **300 PPI** or better (up to **450** or even **600**), unless the source is lower of course. If we assume a screen size of **8"**, **1500 × 2000** is a good target resolution. For bigger images, you should try it on your device and see whether it can deal with it. Especially old Kindles with low memory can struggle with sizes like **3000 × 4000** for example. If you're automating the process, it might be worth considering creating both a lower and higher quality version (e.g., at **200/400** or **300/600** DPI).

Note: KOReader doesn't parse `<spine page-progression-direction="rtl">` attribute of the books. So it doesn't change page turning direction even though the file was created with right-to-left reading. Users can switch this via:

TOP MENU >  > **Taps and gestures > Page turns > Invert page turn tap and swipes / buttons**

Advanced preparation of manga

The following is an example procedure to process one manga file:

1. Download **Kindle Comic Converter (KCC)** from <https://github.com/ciromattia/kcc>
2. Download your manga from the source of your choosing (i.e. **HakuNeko**)
3. Unpack the manga file. Now you should have a directory that contains only images (or subdirectories with images, no archives)
4. Process this directory with **KCC**. Each directory will produce a single **CBZ** file, so if you want to make several volumes at once, select multiple directories at once

Some useful settings of **KCC**:

Spread splitter: This feature detects double pages and allows you to rotate or cut them in two.

Upscaling: Enlarge images that is smaller than your target resolution.

Immersive mode in KOReader

If you would like to enjoy your manga in a more immersive way, make sure that you selected the exact same resolution as your device's screen resolution in **KCC** when creating your **CBZ** file. Also you can hide the bottom progress bar while reading your manga in KOReader. So you will have an immersive full screen view of your manga without obstructions.

Extra step for smooth gradients

ADVANCED

After using **KCC** to create a **CBZ** file, you can apply additional **dithering** to the images. This way, eink-rendered gradients will be smoothly dithered without jagged layers. This step will produce fine-tuned manga volumes which look better in KOReader.

You can use **ImageMagick** to process your images. **ImageMagick**, is a powerful open-source software suite for displaying, creating, converting, modifying, and editing raster images. You can download **ImageMagick** and use it from the command line to process many images at once.

1. Unpack the prepared **CBZ** file that you created with **KCC**,
2. Download the following file (**dither_pack.zip**) which contains two **batch files (.BAT)** and a **GIF** color template:
<https://disk.yandex.com/d/gIEbjmPYyp7og>
3. Extract these three files next to your images that will be processed
4. Edit the **_magick_manga_ditherN_resize.bat** and change the resolution to your device resolution (in both places in the **BAT** file).

WARNING: Next step will replace all the images in the directory with the processed ones. So make sure that you have a copy of them in some other directory if you want to keep the originals.

5. Run `_magick_manga_ditherN_resize.bat` to resize and dither the images.
6. Assuming you have 7-Zip installed, run `_batch_archive.bat` to pack all the processed images into a **CBZ** archive.

Reversing page turn direction for authentic Japanese manga

ADVANCED

You can make KOREader turn pages from **Left to Right**, so that swipes and tap zones are swapped. To enable this, add the following lines to this file -> `/koreader/settings/directory_defaults.lua`

```
["/storage/emulated/0/Books/manga"] = {  
  ["inverse_reading_order"] = true,  
  ["kopt_zoom_direction"] = 0,  
}
```

where `/storage/emulated/0/Books/manga` is the absolute path to the directory containing your mangas. After this change, when you open a file from the mentioned directory, your swipes and tap zones will be swapped.

TIPS

Updating KOReader

KOReader can update itself over Wi-Fi. Trigger the check via this menu item:


TOP MENU >  > Update > Check for update

Automatic dimmer


KOReader can dim your frontlight to preserve battery if your device is idle for a while. You can turn on and adjust this feature via:

TOP MENU >  > Screen > Auto

Switching between documents quickly

If you need to switch between two documents (when comparing them for example), there is a quicker way than going through the **File Browser**. KOReader can open the last document with a gesture ( multiswipe). If you define a gesture's action as **Open previous document**, you can switch between two documents quickly similar to **Alt+Tab** feature on the desktop computers. You can find this feature under:

TOP MENU >  > Taps and gestures > Gesture manager > "ANY GESTURE" > General > Open Previous Document

Also you can use the **History** dialog to switch between documents quickly. The history screen can be opened with the  multiswipe gesture. You can also define any other gesture for this too of course.

Previewing the fonts on your device

KOReader can generate a document with sample text rendered with all the fonts installed on your device. This allows you to quickly compare the look and features of the fonts like ligatures and character sets in non-Latin scripts like Greek, Hebrew or Chinese. You can access this feature via:

TOP MENU >  > Font > Font settings > Generate font test document

Monospace font scale

If your book includes parts with **Monospace** fonts (like in programming books), **Monospace** font might look disproportional even if they are technically at the same size. This is caused by differing font metrics.

If you want to fix this difference, KOReader has an option that allows you to adjust the relative Monospace font size.

TOP MENU >  > Font > Font settings > Monospace fonts scaling

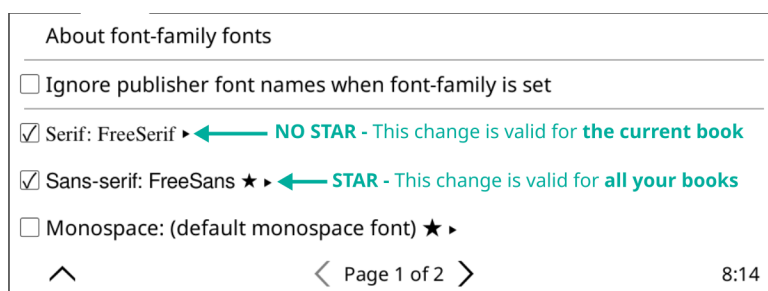
Here you can increase or decrease the size of your **Monospace** font by adjusting its scaling as a percentage of the default size.

Using different fonts in one document

In HTML/CSS based documents like EPUBs, books can specify to use fonts by family instead of a specific font name. These families can be **Serif**, **Sans-Serif**, **Monospace**, **Cursive**, **Fantasy**, **Emoji**, **Fang Song** and **Math**. For example in a book, normal text can be shown in **Sans-serif** while dialogues are shown in **Serif** font. KOReader normally uses your default font for all these families except **Monospace** and **Math** (which is determined by the style of the text nodes, for example **'font-family: serif'**). If you want these families to look distinct, you can assign specific fonts for them here:

TOP MENU >  > Font > Font-family fonts

To change a family font for the current book just tap on the desired font name. If you want to set this for all your books, long-tap to set it as a **Default** (★). If a book abuses this font family feature to the point where your default font is hardly used, you can disable that family font for this book by unchecking the association.



Applying current defaults to an already opened book

When you adjust your document defaults like **default line spacing** or **default contrast**, this new value will only be used for the new documents you open **after** the change. Your already opened books will look the same. For example, if you change your default **FONT**, you will probably adjust **FONT WEIGHT** and **LINE SPACING** to more suitable values for this new font. Then probably you will want to apply these changes to all your opened books. With this feature you don't need to change these values manually in all your opened books.

You can easily apply these changes to your already opened books by choosing:

TOP MENU >  > **Reset document settings to default**

When you click this option, your current book will reset to latest defaults you set. Don't worry, this will only change the appearance of the book. Your reading position, highlights, notes and bookmarks will be preserved.

Saving current book settings as defaults

When you adjust a book to your liking, for example by changing **line spacing**, **font contrast** etc. you can save all the changes at once as **defaults**. Then you can apply these settings to other books with the **Reset document settings to default** option as explained above.

You can save your changes as **defaults** by choosing:

TOP MENU >  > **Save document settings as default**

Installing new dictionaries

To use the dictionary lookup function, first you need to install one or more dictionaries in the StarDict format. KOREADER has an inbuilt dictionary installation system. Your downloaded dictionary will be available when you tap and hold a word in your document:

TOP MENU >  > **Dictionary Settings > Download dictionaries**

A list of freely available dictionaries can be found on the **Firedict** site: <https://tuxor1337.frama.io/firedict/dictionaries.html>

For details about installing, check the related **GitHub** wiki page: <https://github.com/koreader/koreader/wiki/Dictionary-support>

Avoiding clicking links accidentally

If your document has links and you are accidentally clicking them while turning the page or using other gestures, you can turn off **following links by tapping** via this menu item:

TOP MENU >  > **Taps and Gestures > Links > Tap to follow links**

After disabling this setting, to follow a link you have to long-tap on it and select **Follow link** from the popup menu. If you have the opposite problem and you want to make tapping links easier, you can enable **Allow larger tap area around links** from the same menu.

Optimizing your battery life

Li-ion batteries experience more degradation at the extreme ends of their charge levels. To minimize this degradation and extend your battery life, you can limit your minimum discharge level to **20%** and maximum charge level to **80%** (as in electric vehicles and some newer phones). Which means you start charging your device when the battery goes down to 20% and unplug when it reaches 80% (or 25%-75% if you are extra cautious).

KOReader can warn you by showing an alert when charge level reaches your defined limits:

TOP MENU >  > Device Status Alerts > Battery Level

Keeping an eye on your memory usage

In older Kindle devices some of our users reported crashes due to limited memory. KOReader memory usage can go up if you open many files in one session. Especially PDF's increase this amount. You can add a memory indicator to your **STATUS BAR** and restart KOReader if this value gets high, to avoid crashes or reboots.

TOP MENU >  > Status Bar > KOReader memory usage

Also you can configure KOReader to restart automatically if memory usage reaches a threshold via:

TOP MENU >  > Device > Device Status Alerts

TROUBLESHOOTING

My status bar disappeared

Probably you tapped on **STATUS BAR** touch zone (check **USER INTERFACE** section to see an overview of touch zones) and hide your status bar. You can bring it back by tapping the same zone. Check **“How can I configure the status bar ?”** section to see details.

Sometimes my taps are registered as a long tap or double taps

This can happen in cases like shaking hands or device touch screen problems. If you have this problem, you can try to increase the **Tap interval**. By increasing this interval, you tell KOReader to ignore quick taps at the same location.

TOP MENU >  > **Taps and Gestures > Gesture intervals > Tap interval**

If your two consecutive taps are separated by a distance, this would not apply. So you can still quickly browse pages by tapping quickly alternatively with two fingers.

KOReader can't write to the SD card

In Android devices KOReader can't write to the external storage due to Android system restrictions. If you want to change your screenshot saving location, be careful to choose your device's internal storage.

My PDF/DJVU files are slow

If you set your **RENDER QUALITY** to **HIGH** text will be more pleasing but it can be much slower (several seconds for page turn) than **DEFAULT** depending on your document. If your PDF/DJVU files are slow, this is the first setting you should check.

BOTTOM MENU >  > **Render Quality**

Ghosting and residue when turning pages

Even if KOReader is set to **full refresh after every page**, you may still see some ghosting/residue after turning pages. This is a limitation of e-ink screen technology and can be observed on the latest generation devices, especially while reading mixed content (text+images) documents. As a workaround, you can refresh one more time manually after turning the page to get rid of these artifacts if they bother you (**short diagonal swipe** gesture by default).

Sleep cover problems

Sleep covers generally use a magnet embedded in the cover which enables wake up and sleep events via triggering a sensor in your device. In some cases like misaligned magnets, weak magnets etc. this triggering can be problematic. If you are having problems with waking up your device with your cover, you can disable this feature via this menu:

TOP MENU >  > **Device > Ignore all sleep cover events**

Cleaning your book cover cache database

KOReader keeps a cache of your book covers to be able to show them quicker. In normal conditions this cache doesn't get too big. If you remove lots of books or rename directories, you may want to clean up your book cover cache database to reclaim some space. You can do it from this menu:

TOP MENU (in File Browser) >  > **Settings > Mosaic and detailed list settings > Book info cache management**

Backing up your KOREader settings

In rare cases that you want to backup and restore your KOREader with all your settings, you can backup these folders and files under the KOREader installation directory. Then you can overwrite them after a clean installation to restore your settings:

Folders:

settings
style tweaks

Files:

data/cr3.ini
defaults.persistent.lua
history.lua
settings.reader.lua
Files under data/dict/ and /data/tessdata/ directories (if they exist)

Note that your individual book settings and highlights are kept in the same directory as your books. You can back them up separately if you wish.

User patches

ADVANCED

User patches are small files written in **Lua** language. They can change the functionality of KOREader without modifying your installation permanently. They can be written by developers, other users or you can write one yourself (if you have the necessary extensive knowledge about the KOREader internals). You can find a current list of **User patches** in the related **GitHub** wiki page: <https://github.com/koreader/koreader/wiki/User-patches> and on issues list under the **User patch available** tag <https://github.com/koreader/koreader/issues?q=+label%3A%22User+patch+available%22>

Basic usage – Adding an already written patch to your KOREader:

1. Create a directory named **patches** under **koreader** directory on your device (On Android this folder is located on the SD-card)
2. Download and put the patch file with **.lua** extension in this **patches** directory
3. Restart KOREader

Naming the patch

Execution order of a patch is determined by the first digit of the number in the patch name. For example: **2-TOC-title-patch.lua**. If there are several patches starting with the same digit, the execution order is the natural order (1<10<11<12<13<...<109<...<10010). If you are just downloading an already made patch you don't need to change the file name.

Names starting with:

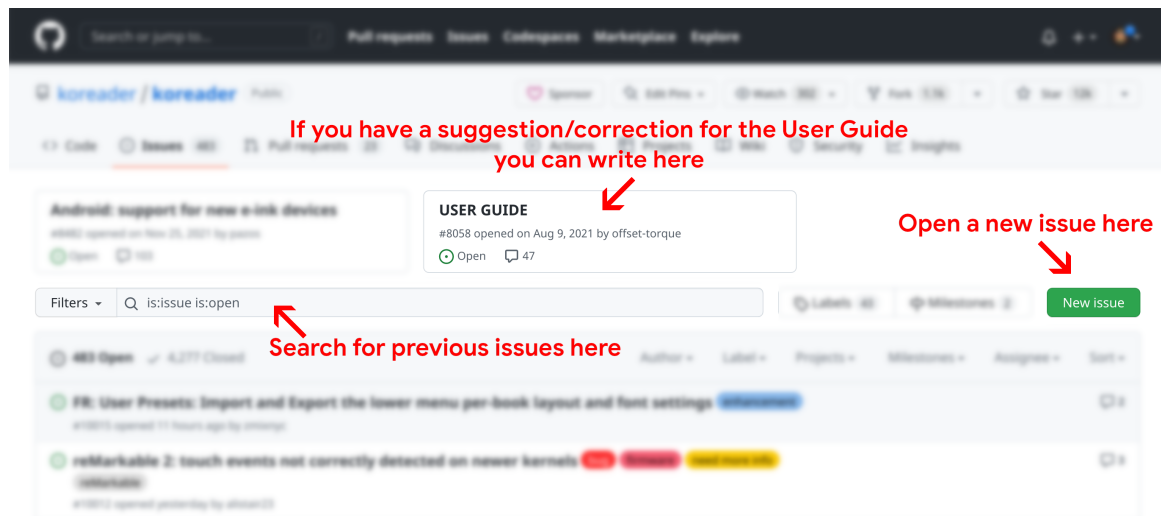
- 0** - Executed very early and only once after an update
- 1** - Executed very early on every start of KOREader (but after 0 if applicable)
- 2** - Executed after **UIManager** is ready on every start of KOREader
- 3-7** - Reserved
- 8** - Executed before exit and before settings get saved
- 9** - Executed right before exit

If you have a problem with a user patch, you can revert to your previous configuration by removing the patch file.

MORE INFO

How to reach us about problems or suggestions

KOReader uses [GitHub](#) as its project base. You can report problems or suggestions on our GitHub page. You just need a GitHub account which is free. Click this link to open our [Issues](#) page: <https://github.com/koreader/koreader/issues>



On the [Issues](#) page click the [New Issue](#) button. But before doing that, we suggest using the search bar to see if there is already an existing issue about the same topic. You can also check other opened issues to have an idea about the process.

When you click the [New Issue](#) button you will be presented with two options:

Bug report Create a bug report to help us improve the application	FOR CRASHES, FREEZES ETC. →	Get started
Feature request Share an idea or suggestion	IF YOU HAVE AN IDEA ABOUT A FEATURE →	Get started

Click the appropriate one and follow the instructions on the page to report your problem or suggestion.



You can find other KOReader users on **MobileRead** forums
<https://www.mobileread.com/forums/forumdisplay.php?f=276>



You can report problems by opening an issue on our **GitHub** page
<https://github.com/koreader/koreader>



You can find us at **Gitter** chat
<https://gitter.im/koreader/koreader>



You can support the project via **Liberapay**
<https://liberapay.com/KOReader>