WaterLift Calculator
Version 1.0

Help window manual version

Team: Blue Hair is the Way
Last manual release: April 27, 2021

Contents

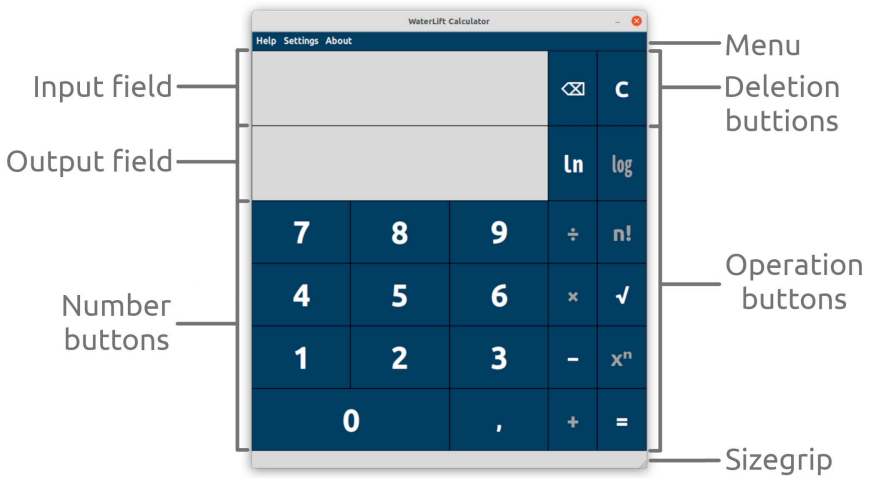# 1   Overview of the user interface

Figure 1: Main window

2   Appearance

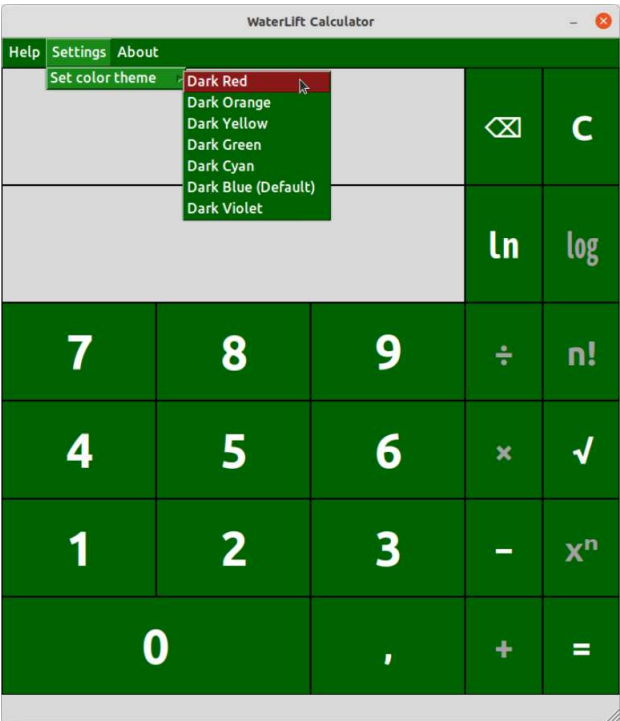We also provide 7 color themes for your better calculating experience.

Figure 2: Color scheme changing

3 Features

We have added some interesting features that can make your calculating much easier.

3.1 "No zero part"

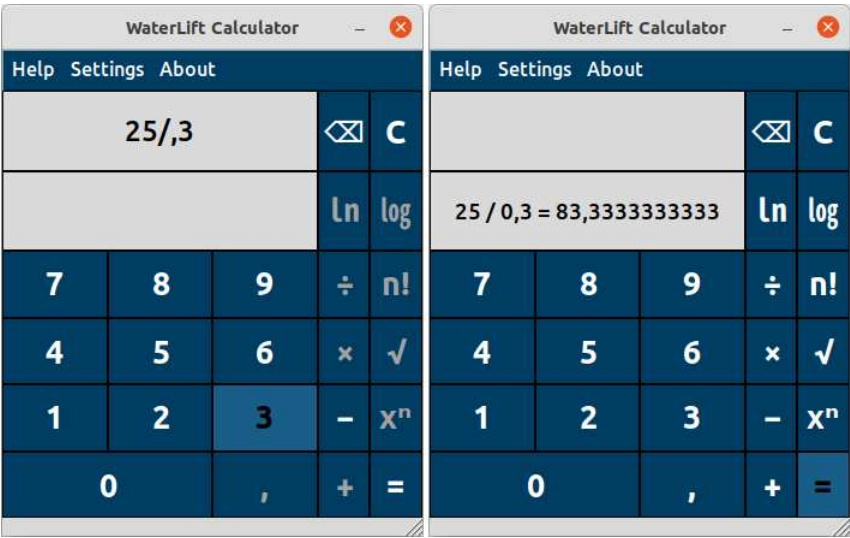No need to write zero in decimal numbers, the calculator add it by itself.

Figure 3: "No zero part" feature

3.2 "Continue the calculating"

After the evaluation of the last expression,

- press $=$ to put the result into the input field
- or press the operation sign (except $\sqrt{\ }$, $\log$, $\ln$) to put the result into the input field with it.

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Figure 4: "Continue the calculating" feature

3.3 "Change the operation sign"

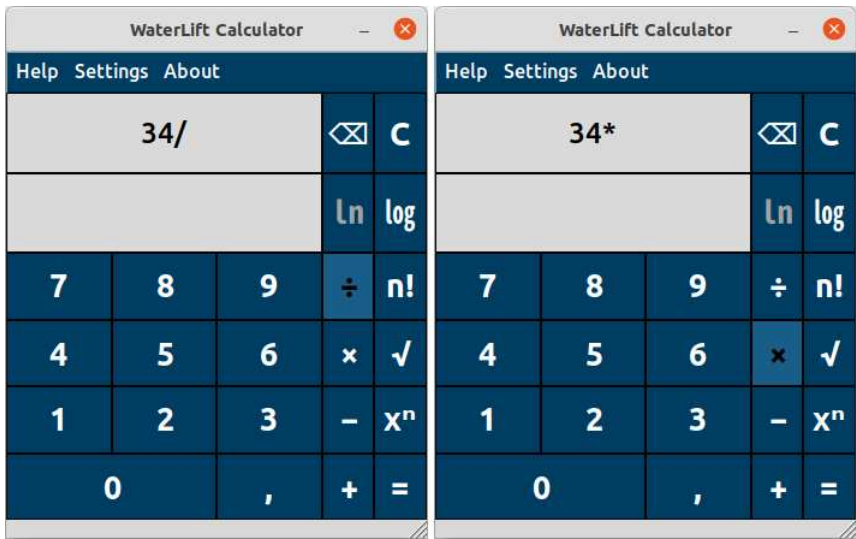When you put an operation sign into the input field, you can change it by pressing another.

Figure 5: "Change the operation sign" feature

3.4 Window size control

You can change the window size by clicking the left mouse button on the *sizegrip* and moving the mouse.

3.5 Inactive buttons

The buttons become inactive if their using is impossible in the current expression.

3.6   Keyboard input support

We provide keyboard support for all input buttons. You can find Keyboard bindings table on the page 9.

3.7   In-build user manual

You can always open a short version of this manual by clicking Help or pressing the H keyboard button.
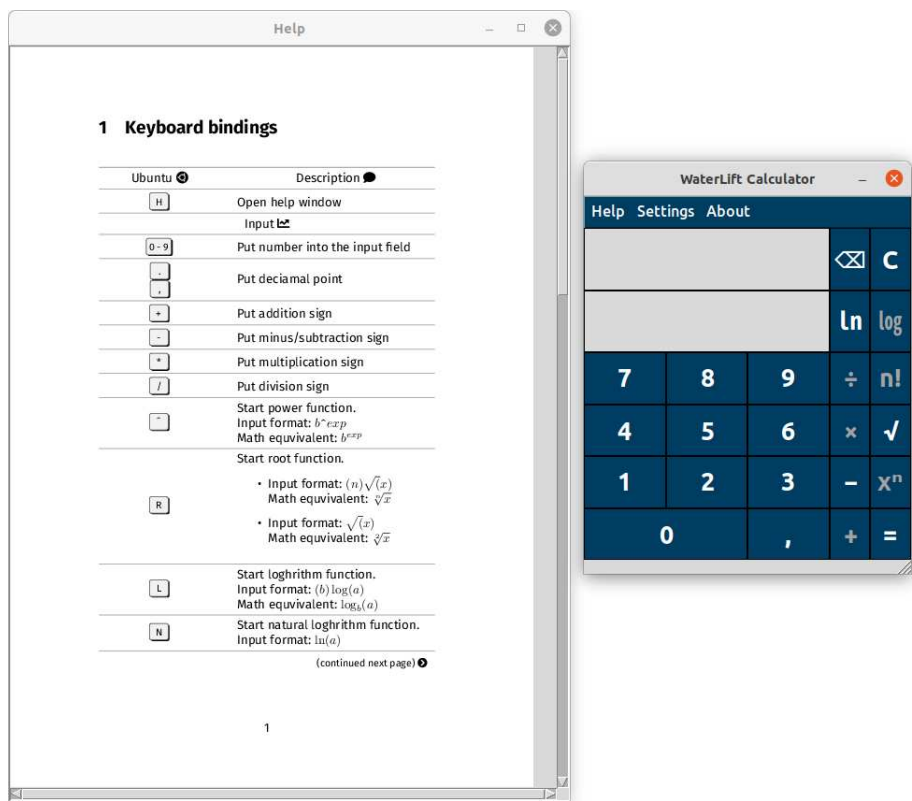
Figure 6: In-build user manual

4 Operation limitations

Operation 🖩	Limitation ✖
`+`	No limitation
`-`	No limitation
`*`	No limitation
`÷`	$a \div b, b \neq 0$
`^`	$b^{exp}, exp \in \mathbb{N}$
`√`	• $\sqrt[n]{x}, n \neq 0$ • $\sqrt[n]{-x}, n \in \{2n+1 \mid n \in \mathbb{Z}\}$
`log`	$\log_b a, b > 0 \land b \neq 1, a > 0$
`ln`	$\ln a, a > 0$
`!`	$n!, n \in \mathbb{N}$

5 Keyboard bindings

Ubuntu ⊙	Description 💬
H	Open help window
	Input 〰
0 - 9	Put number into the input field
. ,	Put decimal point
+	Put addition sign
-	Put minus/subtraction sign
*	Put multiplication sign
/	Put division sign
^	Start power function. Input format: $b\hat{\ }exp$ Math equivalent: b^{exp}

R	Start root function.
	
	• Input format: $n\sqrt{x}$
	  Math equivalent: $\sqrt[n]{x}$
	
	• Input format: $\sqrt{x}$
	  Math equivalent: $\sqrt[2]{x}$

L	Start logarithm function. Input format: $(b)\log(a)$ Math equivalent: $\log_b(a)$
N	Start natural logarithm function. Input format: $\ln(a)$

Ubuntu ⊙	Description 💬
[!]	Put factorial sign. Input format: $n!$
Other ⌨	
[Enter] [=]	Evaluate the expression
[Delete] [BackSpace]	Delete last symbol from the input field. If the input field is empty, clear the output field.
[C]	Clear the input field. If the input field is empty, clear the output field.
[Esc]	Close current window. If was pressed on the main window, application will be closed.