

# WaterLift Calculator

## Version 1.0

Help window manual version

Team:  
Last manual release:

Blue Hair is the Way  
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# 1 Overview of the user interface

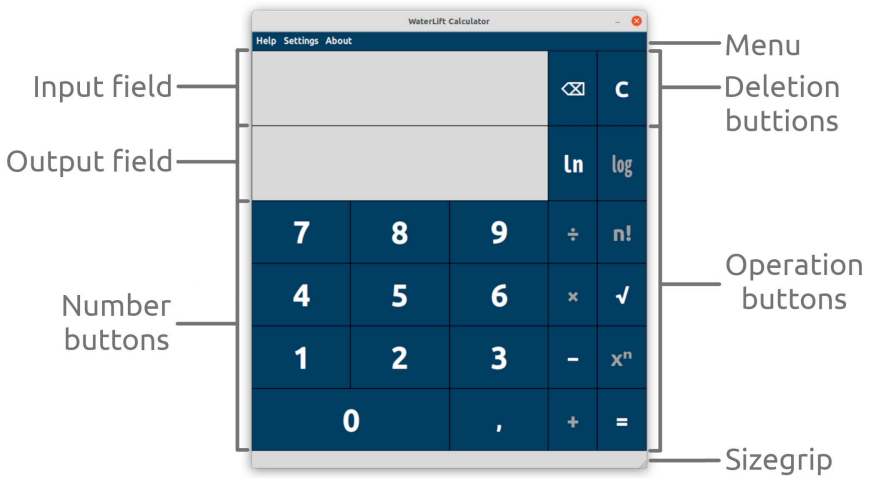


Figure 1: Main window

## 2 Appearance

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

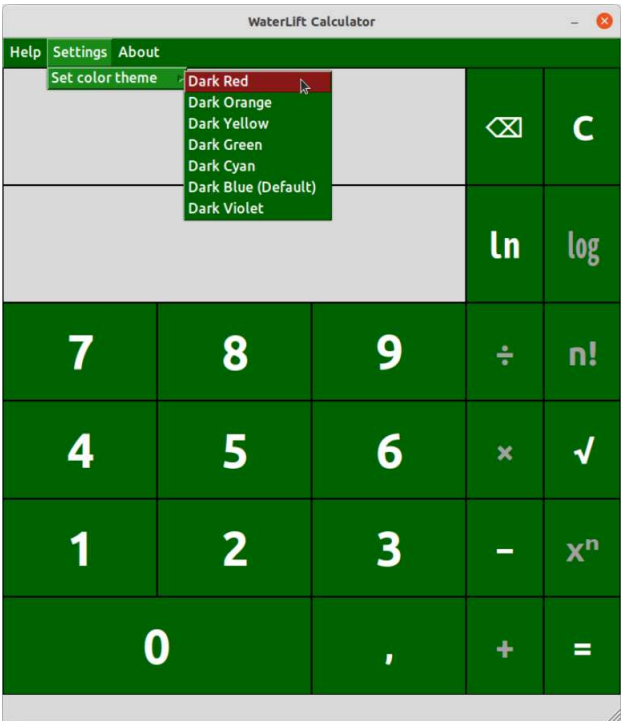


Figure 2: Color scheme changing

### 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.

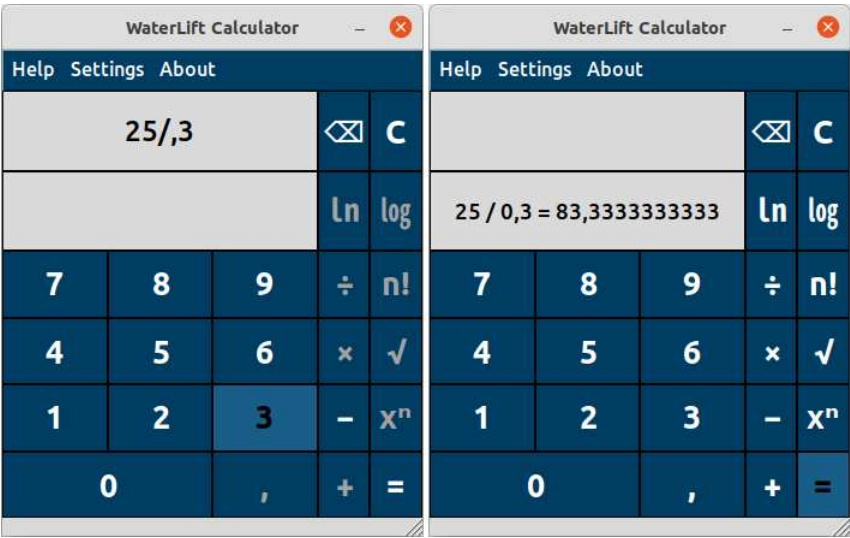


Figure 3: "No zero part" feature

#### 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 , , ) to put the result into the input field with it.



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.

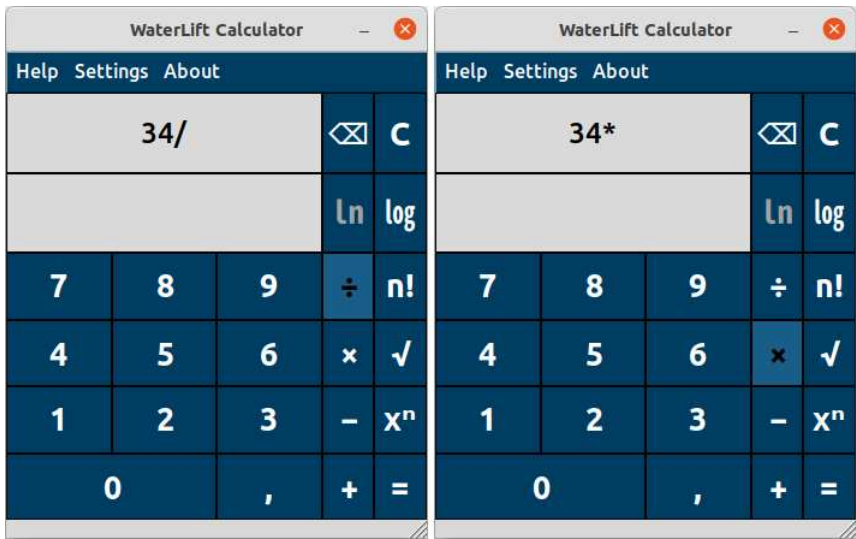


Figure 5: "Change the operation sign" feature

### 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.

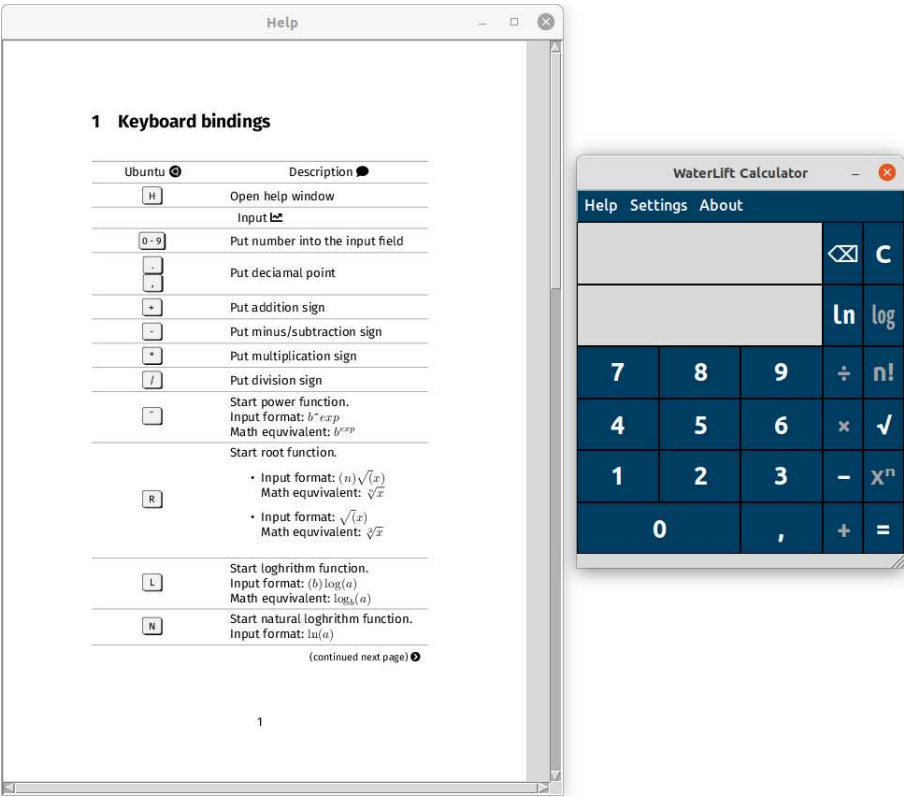




























Figure 6: In-build user manual














# 4    Operation limitations

Operation 	Limitation 
	No limitation
	No limitation
	No limitation
	$a \div b, b \neq 0$
	$b^{exp}, exp \in \mathbb{N}$
	<ul style="list-style-type: none"> <li><math>\sqrt[n]{x}, n \neq 0</math></li> <li><math>\sqrt[n]{-x}, n \in \{2n + 1   n \in \mathbb{Z}\}</math></li> </ul>
	$\log_b a, b > 0 \wedge b \neq 1, a > 0$
	$\ln a, a > 0$
	$n!, n \in \mathbb{N}$

# 5 Keyboard bindings

Ubuntu 	Description 
	Open help window
Input 	
	Put the 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: $b^{exp}$ Math equivalent: $b^{exp}$
	Start root function.
	• Input format: $n\sqrt{x}$ Math equivalent: $\sqrt[n]{x}$
	• Input format: $\sqrt{x}$ Math equivalent: $\sqrt[2]{x}$
	Start logarithm function. Input format: $(b) \log(a)$ Math equivalent: $\log_b(a)$
	Start natural logarithm function. Input format: $\ln(a)$

(continued next page) 

Ubuntu 	Description 
	Put factorial sign. Input format: $n!$
Other 	
 	Evaluate the expression
 	Delete the last symbol from the input field. If the input field is empty, clear the output field.
	Clear the input field. If the input field is empty, clear the output field.
	the current window. If was pressed on the main window, the application will be closed.