



## About

Help is an Integrated Development Environment (IDE) for programming small javascript games on a phone. Several games are included.

License: GPL

Github: [github.com/bacionejs](https://github.com/bacionejs)

Tested on: Android 13, Chrome 121, tablet and phone

## Download

At the github link, click editor, click bacione.html, click download.  
The editor is one file including the games.

## Hello World

At the top of the editor, create this code and click Run:

```
function helloworld(){  
  L.canvas(W/2).icon(127759,W/2,W/2);  
}
```

## Run

Runs the game which contains the cursor.  
Also stops the game.

## Save

Saves to a timestamped file.  
The file contains your games AND the Editor.

## Zoom/Fullscreen

Toggles font size.  
Doubleclick toggles fullscreen.

## Pretty Print

Displays a readonly version of code that can be saved as PDF.

## Comment

Toggles comments for the current line.  
Also puts the line in Paste.

## Complete

Completes a word.  
Looks for match in current game and then elsewhere.

## Rename (find/replace)

To rename, select text, type text, click Paste several times. To skip, click Arrow.

## Undo/Redo

Restore up to 50 changes.

## **Paste**

Selects text and puts it in Paste. Once Paste is set, it pastes.

Backspace deletes selected text.

Enter moves the cursor to the end of selection and unselects.

Undo resets Paste.

Selection looks at the character to the right and then selects for:

newline: line

words: left,right

spaces: right

blank line: next blank line

blocks: (){}[]""

## **Misc**

Color-Picker and Icon-Picker put a code in Paste.

Edit-the-Editor enables changes to the editor source code, such as colors, new buttons, etc.

## **Swipeup**

Insert capital letter, instead of using shift.

## **Errors**

Runtime errors display an error message and automatically jump to the error in code.

## **Global Variables and Aliases**

FPS=(frames per second)

W=innerWidth;

floor=Math.floor;

## **Overridden**

Array sort: compares numbers instead of strings.

## **Variable tracking**

L.debug(string,canvas)

## **Random number**

number=L.rnd(max,min)

## **Random biased sets (reduces repetition)**

set=L.RandomArray(quantity,range)

set.next()

## **Sound**

sound=L.Sound()

sound.rocket()

## **Canvas**

canvas=L.canvas(fontsize,iconstart)

canvas.icon(emoji,x,y)

canvas.white()

## **Color gradient**

canvas.fillStyle=L.gradient(canvas,bottom,height,[[stop,color],...])

## Shapes

```
canvas.fill(L.shape([[x,y,...],...],scale))
```

## Pixel to Vector

```
canvas.fill(L.shape(L.vertices(pixels)))
```

## Features

Designed for phones and tablets.

No setup required.

One file.

Easy to share.

Offline.

Vanilla javascript.

No dependencies.

One click run.

Context aware logic helps reduce task steps.

Less work to refactor your code.

Easy to modify editor.

Edit the editor in the editor.

Editor is less than 500 lines of significant code.

Fully programmable keyboard, including creating you own button icons and functions.

Supports swipe, doubleclick, longpress.

## Game Controls

Ski - Click anywhere.

Pairs - Click in squares.

Smash - Click the pumpkin.

Monkeymaze - Click quadrants.

Snake - Click vertical half if snake is horizontal, etc.

Chess - Click piece and destination. Longpress to change piece.

Marslander - Click on right or left of canvas. To disable sound, comment `snd.rocket()`.

## Buttons

⌵ Save

▶ Run

📄 Pretty

📖 Help

◇ Misc

Ⓐ Zoom

← Left

→ Right

↶ Undo

↷ Redo

⤴ Shift

// Comment

⇒ Complete

📋 Paste

⏏ Enter

⌫ Backspace