# **Keyboard Shortcuts**

## **Overview**

This feature allows you to configure local and global keyboard shortcuts for your Electron application.

# **Example**

#### **Local Shortcuts**

Local keyboard shortcuts are triggered only when the application is focused. To configure a local keyboard shortcut, you need to specify an <a href="maccelerator">accelerator</a> property when creating a <a href="maccelerator">Menultem</a> within the <a href="maccelerator">Menultem</a> module.

Starting with a working application from the Quick Start Guide, update the main.js file with the following lines:

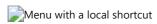
```
const { Menu, MenuItem } = require('electron')

const menu = new Menu()
menu.append(new MenuItem({
  label: 'Electron',
  submenu: [{
    role: 'help',
    accelerator: process.platform === 'darwin' ? 'Alt+Cmd+I' : 'Alt+Shift+I',
    click: () => { console.log('Electron rocks!') }
  }]
}))

Menu.setApplicationMenu(menu)
```

NOTE: In the code above, you can see that the accelerator differs based on the user's operating system. For MacOS, it is Alt+Cmd+I, whereas for Linux and Windows, it is Alt+Shift+I.

After launching the Electron application, you should see the application menu along with the local shortcut you just defined:



If you click <code>Help</code> or press the defined accelerator and then open the terminal that you ran your Electron application from, you will see the message that was generated after triggering the <code>click</code> event: "Electron rocks!".

#### **Global Shortcuts**

To configure a global keyboard shortcut, you need to use the <u>globalShortcut</u> module to detect keyboard events even when the application does not have keyboard focus.

Starting with a working application from the Quick Start Guide, update the main.js file with the following lines:

```
const { app, globalShortcut } = require('electron')
app.whenReady().then(() => {
```

```
globalShortcut.register('Alt+CommandOrControl+I', () => {
   console.log('Electron loves global shortcuts!')
})
}).then(createWindow)
```

NOTE: In the code above, the CommandOrControl combination uses Command on macOS and Control on Windows/Linux.

After launching the Electron application, if you press the defined key combination then open the terminal that you ran your Electron application from, you will see that Electron loves global shortcuts!

#### Shortcuts within a BrowserWindow

#### **Using web APIs**

If you want to handle keyboard shortcuts within a <u>BrowserWindow</u>, you can listen for the keyup and keydown <u>DOM events</u> inside the renderer process using the <u>addEventListener() API</u>.

```
const handleKeyPress = (event) => {
    // You can put code here to handle the keypress.
    document.getElementById("last-keypress").innerText = event.key;
    console.log(`You pressed ${event.key}`);
}
window.addEventListener('keyup', handleKeyPress, true);
```

Note: the third parameter true indicates that the listener will always receive key presses before other listeners so they can't have stopPropagation() called on them.

#### Intercepting events in the main process

The <u>before-input-event</u> event is emitted before dispatching keydown and keyup events in the page. It can be used to catch and handle custom shortcuts that are not visible in the menu.

Starting with a working application from the Quick Start Guide, update the main.js file with the following lines:

```
const { app, BrowserWindow } = require('electron')

app.whenReady().then(() => {
  const win = new BrowserWindow({ width: 800, height: 600 })

win.loadFile('index.html')
  win.webContents.on('before-input-event', (event, input) => {
   if (input.control && input.key.toLowerCase() === 'i') {
      console.log('Pressed Control+I')
      event.preventDefault()
   }
  })
})
```

After launching the Electron application, if you open the terminal that you ran your Electron application from and press Ctrl+I key combination, you will see that this key combination was successfully intercepted.

### **Using third-party libraries**

If you don't want to do manual shortcut parsing, there are libraries that do advanced key detection, such as <a href="mousetrap">mousetrap</a>. Below are examples of usage of the <a href="mousetrap">mousetrap</a> running in the Renderer process:

```
Mousetrap.bind('4', () => { console.log('4') })
Mousetrap.bind('?', () => { console.log('show shortcuts!') })
Mousetrap.bind('esc', () => { console.log('escape') }, 'keyup')
// combinations
Mousetrap.bind('command+shift+k', () => { console.log('command shift k') })
// map multiple combinations to the same callback
Mousetrap.bind(['command+k', 'ctrl+k'], () => {
 console.log('command k or control k')
 // return false to prevent default behavior and stop event from bubbling
 return false
})
// gmail style sequences
Mousetrap.bind('g i', () => { console.log('go to inbox') })
Mousetrap.bind('* a', () => { console.log('select all') })
// konami code!
Mousetrap.bind('up up down down left right left right b a enter', () => \{
 console.log('konami code')
})
```