

Lesson Two: Setting Up for Scripts



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Overview

The [Myo gesture control armband](#)¹ can be used with any existing Windows and Mac applications. We've made it easy to do so with Myo Scripts.

In lesson one, you learned the five basic gestures of the Myo armband and how to integrate them into different applications. This lesson will start digging into Myo Scripts. Remember that these tutorials assume you, the reader, has some programming knowledge.

Objective

After completing this lesson, you should be familiar with the Application Manager. You will also learn how to use Myo for any application with the **Keyboard Mapper**. [The possibilities are endless!](#)²

Goals

- Complete basic set-up to begin scripting with Myo
- Explore the Application Manager in Myo Connect
- Create a connector using Keyboard Mapper

Lesson Length (Time)

60 Minutes

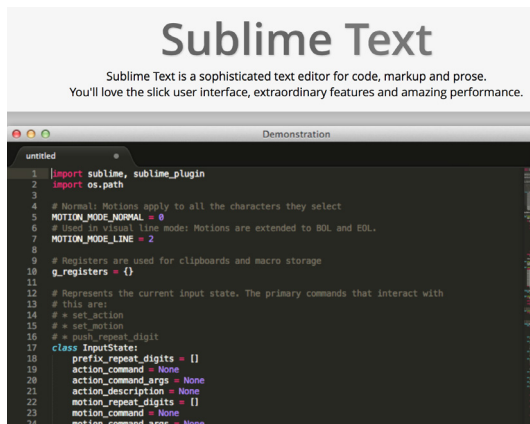


PART 1: LUA

To begin, let's familiarize ourselves with Lua. Myo Scripts are written in Lua, a common scripting language used in software. Myo Connect runs these Myo Scripts, which we call connectors, that can handle Myo events, and uses them to control applications.

PART 2: INSTALLING A TEXT EDITOR

A text editor is required to write programming language. You'll use a text editor for coding in future lessons. [Sublime Text](#)³ and [Notepad++](#)⁴ are both powerful options that come with syntax highlighting for Lua. You only need to choose and install one of the above. The above editors are only suggestions, so you can use a different editor if you prefer.



PART 3: EXPLORING THE APPLICATION MANAGER

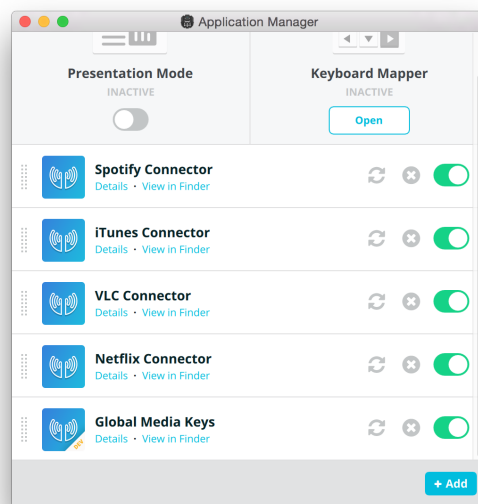
The **Application Manager** can be accessed through the **Myo Connect Menu** and allows us to easily interact with our applications.

For this lesson series, go to **Preferences** and toggle **Enable Developer Mode ON** (under the **General** tab). As you can see [here](#)⁵, developer mode allows us to test our scripts by enabling the debug console, making it easier to test out refreshed script code. Keep Developer Mode ON for all lessons.

The **Application Manager** will display the connectors currently installed in Myo Connect, and whether or not they are active.

To rearrange items in the Application Manager, click and drag on the left side of the application icon. The list is prioritized from the top to the bottom, and new connectors are added to the bottom of the list. This is only an issue with global scripts, or if two connectors are fighting for the same application.

Global scripts are scripts that work no matter what application you have in focus on your computer and will always take priority over any scripts below it. For example, the [Global Media Keys Control](#)⁶ connector controls playback from any media application on your computer and should either be at the bottom of the list or toggled off.

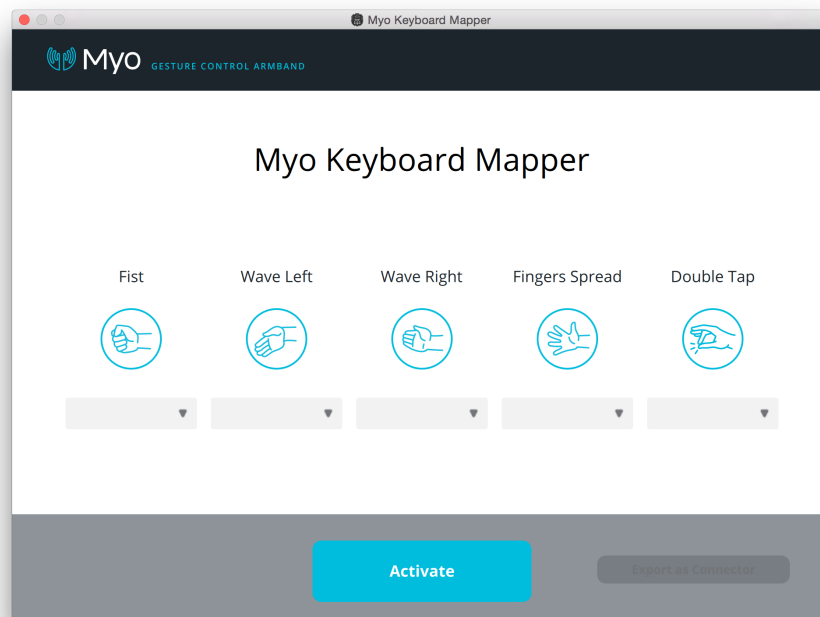


Global Media Keys should be placed at the bottom of the list or toggled off.

PART 4: KEYBOARD MAPPER

The Keyboard Mapper gives you the power to assign keyboard and mouse commands to any of the five gestures to control any application. On top of that, you can export your custom configurations as connector scripts for use with specific applications. This will give you a general feeling for how a Myo Script should work.

The Keyboard Mapper Guide is available on the [Myo Support website](#)⁷ or in the Myo Connect Menu under **Guides**. Once you finish going through this, you should be ready to start writing your first script!



Challenge Activities

1. Open the Application Manager and perform the following tasks.

a) Find the following:

Presentation Mode switch

Keyboard Mapper

“Add” button to add a connector

b) Each connector in the application manager menu has a few options. Perform the following tasks:

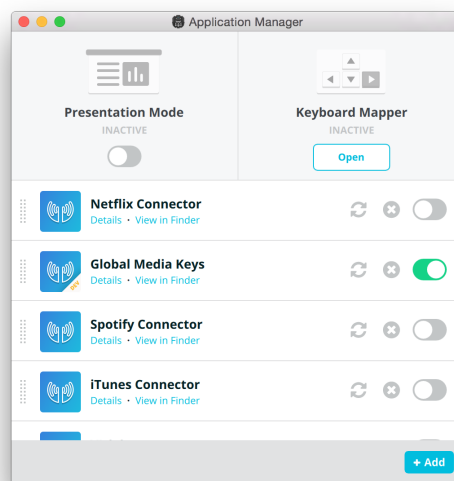
Remove a connector (all connectors can be reinstalled at Myo Market)

Toggle a connector OFF and ON

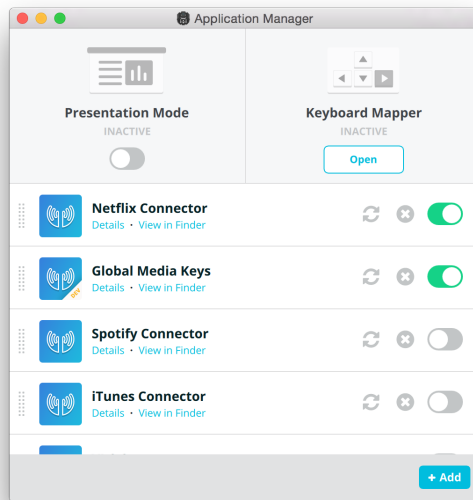
Move a connector to the top of the list

2. Answer the following true or false questions based on each image:

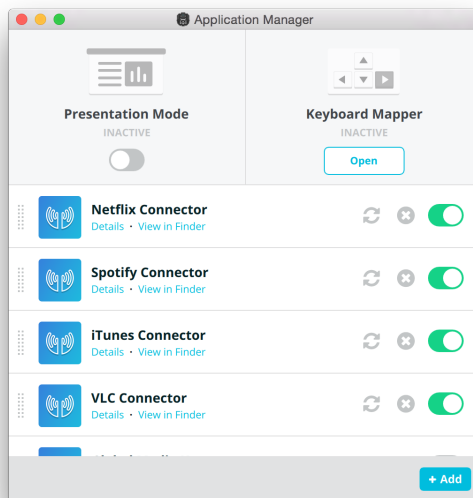
a) Netflix controls with the Myo armband will not work. True or False?



b) When Netflix is the foreground window, the Global Media Keys connector takes priority over the Netflix connector. True or False?



c) When Spotify is the foreground window, the Spotify Connector takes priority over all the other connectors. True or False?



3. Use the dropdown menus in the Myo Keyboard Mapper to perform the following tasks. You must press “Activate” for the Keyboard Mapper to work, and if you want to create a connector you must press “Export as Connector”.

a) Set three gestures so that you can type “Myo” in a document such as Microsoft Word or Notepad using the Myo armband.

b) Create a connector that can navigate through your browser and type “Myo” in the search bar. Keep your mappings from a) and set the two unused gestures to “Toggle Mouse” and “Left Click”.

c) Create a connector to play [Tetris](#)⁸. Make sure to assign each gesture to an intuitive button so that the gameplay makes sense.



The keyboard controls for this Tetris web game can be found below. You will not be able to use every single control available, so choose the controls you think will be most effective!

Left Arrow Key or A - move left

Right Arrow Key or D - move right

Up Arrow Key or X or W - rotate clockwise

Z - rotate counter clockwise

Down Arrow Key or S - move down

Space - move piece all the way down

Relevant Links

- [1] <https://www.myo.com>
- [2] https://www.youtube.com/watch?v=UL_pDatlLOg
- [3] <http://www.sublimetext.com>
- [4] <https://notepad-plus-plus.org>
- [5] <https://support.getmyo.com/hc/en-us/articles/204305839-What-is-Developer-Mode-in-Myo-Connect->
- [6] <https://market.myo.com/app/54eb721ee4b07a1270f42ca2/global-media-keys-control>
- [7] <https://support.getmyo.com/hc/en-us/articles/204660665>



Solutions

2.

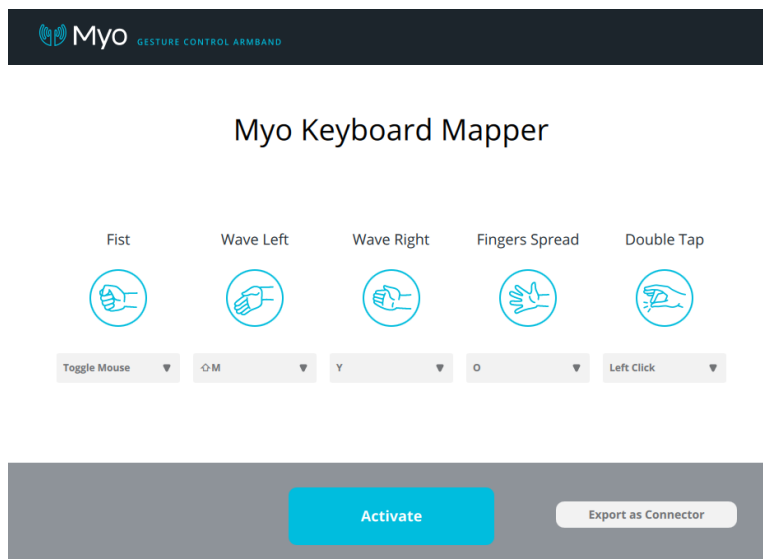
a) False

b) False

c) True

3.

b) Solutions may vary



c) Solutions may vary

