# Lab 3: Native Addons for Node using C++

In this exercise, you will:

* Setup a native plugin using C++.
* Compile C++ into machine level code.
* Access the C++ function using Node.
* Build a simple sum calculator using addons.

Bonus : Learn how you can control your mouse/screen!

1. Check out the Lab-Native-Addons branch from the remote repository.

git checkout origin/Lab-Native-Addons

Note: The HEAD of this branch provides the completed code for the entire exercise.

1. Run npm install to ensure all the dependencies have been installed.
2. Create a new local branch for your work based on the "starting point..." commit.

git log --oneline

git checkout <hash for starting point commit>

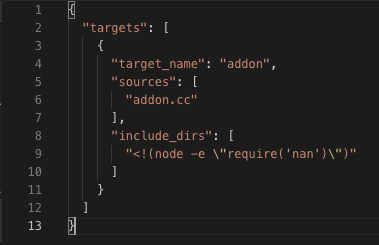
git checkout -b Lab-Native-Addons-mine

1. Make sure that the following npm packages are saved in your dependencies

npm install ---save node-gyp

npm install --save robotjs

1. Navigate to the js/native folder of the app, and let’s set up our binding.gyp file to describe the build configuration



1. Once we have our target and source file in there, we can now proceed to build our native addon which we will then use in our node file

node-gyp clean configure build

(or) npm run gypNative

Helpful Links

<https://nodeaddons.com/>