# Nodjs addons插件创建工程

1. **安装专门编写用于编译Node.js插件的工具**[**node-gyp**](https://github.com/nodejs/node-gyp)

npm install -g node-gyp

npm install –save nan

node-gyp install --target=6.0.2 --arch=x64 --dist-url=<https://electronjs.org/headers>

node-gyp install --target=6.0.2 --arch=ia32 --dist-url=<https://electronjs.org/headers>

1. **创建源码文件hello.cpp：**

// hello.cc

#include <node.h>

namespace demo {

using v8::FunctionCallbackInfo;

using v8::Isolate;

using v8::Local;

using v8::NewStringType;

using v8::Object;

using v8::String;

using v8::Value;

void Method(const FunctionCallbackInfo<Value>& args) {

Isolate\* isolate = args.GetIsolate();

args.GetReturnValue().Set(String::NewFromUtf8(

isolate, "world", NewStringType::kNormal).ToLocalChecked());

}

void Initialize(Local<Object> exports) {

NODE\_SET\_METHOD(exports, "hello", Method);

}

NODE\_MODULE(NODE\_GYP\_MODULE\_NAME, Initialize)

} // namespace demo

1. **binding.gyp在项目的顶层创建一个名为的文件：**

{

"targets": [

{

"target\_name": "addon",

"sources": [ "hello.cpp" ]

}

]

}

1. **生成工程：**

#需要安装python2.7

node-gyp configure build --target=6.0.2 --arch=ia32 --dist-url=https://electronjs.org/headers

#(编译32位)

node-gyp configure build --target=6.0.2 --arch=x64 --dist-url=https://electronjs.org/headers

#(编译64位)

1. **vs编译工程：**

打开工程编译.\build\ binding.sln

1. **创建JS文件hello.js**

// hello.js

const addon = require('./build/Release/addon');

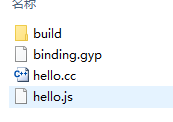
console.log(addon.hello());

// Prints: 'world'

1. **运行JS文件：**

node ./hello.js

目录结构如下：



# 创建electron工程

1. **创建main.js文件：**

//https://www.electronjs.org/docs/tutorial/first-app

const electron = require('electron')

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

function createWindow () {

// 创建浏览器窗口

let win = new BrowserWindow({

width: 800,

height: 600,

webPreferences: {

nodeIntegration: true

}

})

// 加载index.html文件

win.loadFile('index.html')

}

app.whenReady().then(createWindow)

1. **创建index.html**

<!DOCTYPE html>

<html>

<head>

<meta charset="UTF-8">

<title>Hello World!</title>

<!-- https://electronjs.org/docs/tutorial/security#csp-meta-tag -->

<meta http-equiv="Content-Security-Policy" content="script-src 'self' 'unsafe-inline';" />

</head>

<body>

<h1>Hello World!</h1>

We are using node <script>document.write(process.versions.node)</script>,

Chrome <script>document.write(process.versions.chrome)</script>,

and Electron <script>document.write(process.versions.electron)</script>.

</body>

<script language="javascript">

// hello.js

const addon = require('../TestAddons/build/Release/addon');

alert(addon.hello());

</script>

</html>

1. **创建package.json**

{

"name": "your-app",

"version": "0.1.0",

"main": "main.js",

"scripts": {

"start": "electron ."

}

}

1. **安装electron**

npm install --save-dev electron@^6.0.2 --arch=x64 #(安装64位)

1. **启动程序**

npm start

目录结构如下：

