
NodeRED 环境配置



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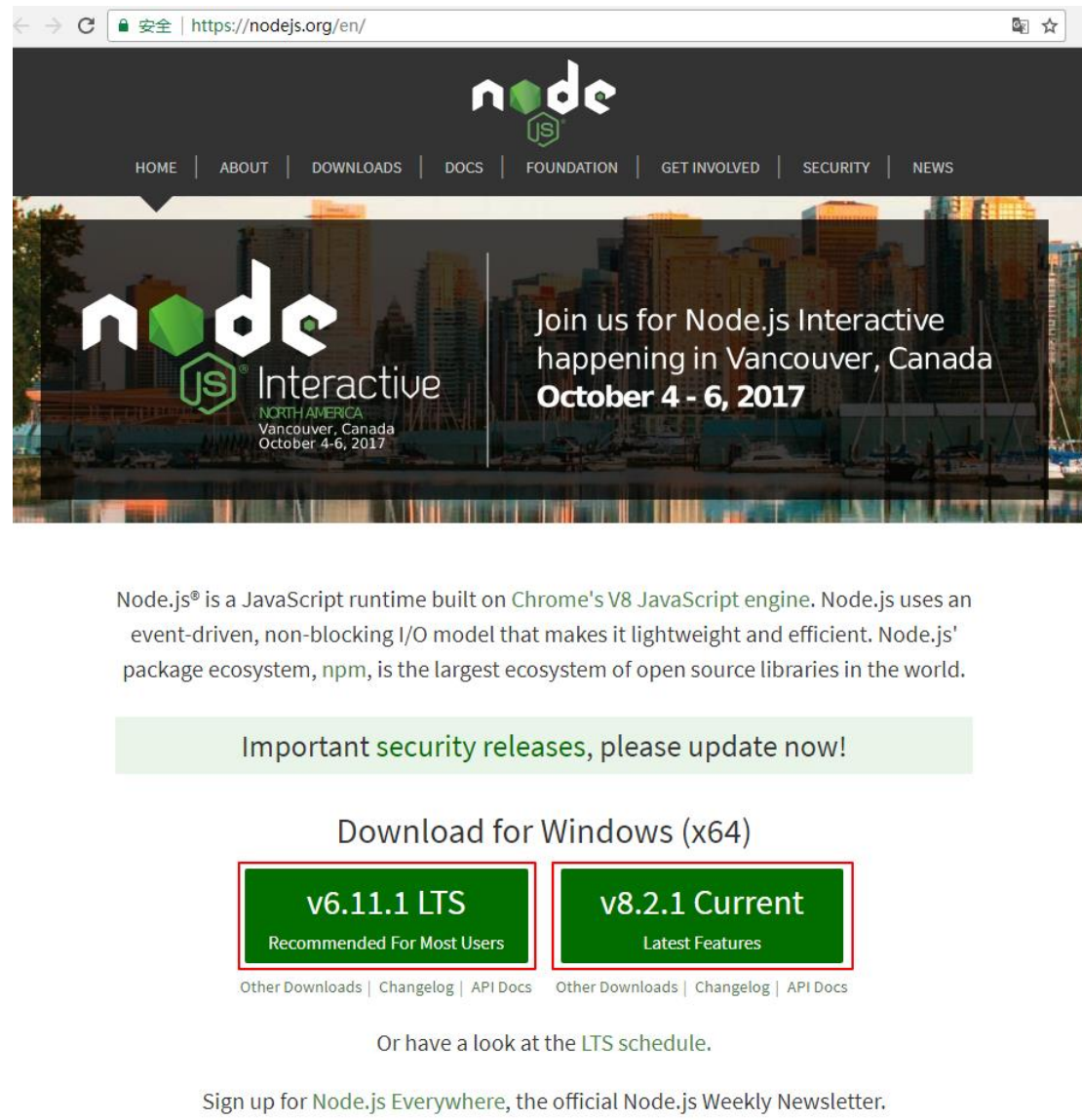
Uplabs

1.安装 Node.js

首先你需要去 node.js 官网下载 node.js

<https://nodejs.org/en/>

这两个版本推荐下载右侧的最新版 V8.2.1



The screenshot shows the Node.js website homepage. At the top, there's a navigation bar with links: HOME, ABOUT, DOWNLOADS, DOCS, FOUNDATION, GET INVOLVED, SECURITY, and NEWS. Below the navigation bar is a large banner featuring the Node.js logo and text: "Join us for Node.js Interactive happening in Vancouver, Canada October 4 - 6, 2017". Below the banner, there's a paragraph describing Node.js: "Node.js® is a JavaScript runtime built on Chrome's V8 JavaScript engine. Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient. Node.js' package ecosystem, npm, is the largest ecosystem of open source libraries in the world." Below this paragraph is a green box with the text: "Important security releases, please update now!". Below the green box is a section titled "Download for Windows (x64)" with two buttons: "v6.11.1 LTS Recommended For Most Users" and "v8.2.1 Current Latest Features". Below the buttons are links: "Other Downloads | Changelog | API Docs" for both versions. Below the links is the text: "Or have a look at the LTS schedule." At the bottom, there's a link: "Sign up for Node.js Everywhere, the official Node.js Weekly Newsletter."

Node.js® is a JavaScript runtime built on Chrome's V8 JavaScript engine. Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient. Node.js' package ecosystem, npm, is the largest ecosystem of open source libraries in the world.

Important security releases, please update now!

Download for Windows (x64)

v6.11.1 LTS
Recommended For Most Users

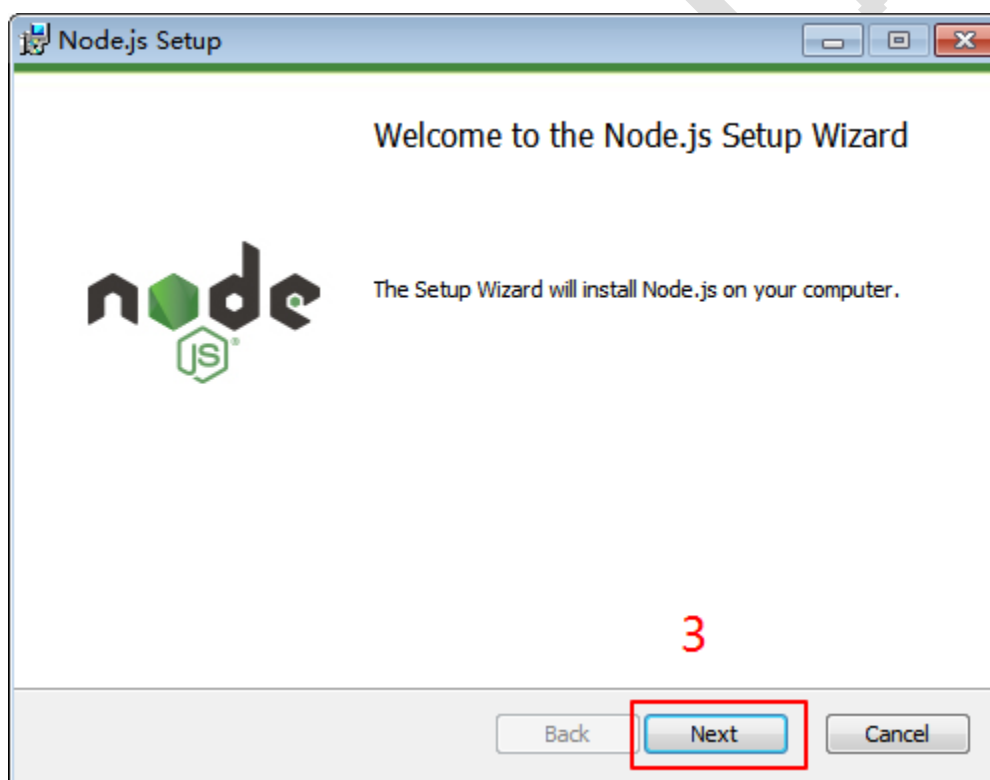
v8.2.1 Current
Latest Features

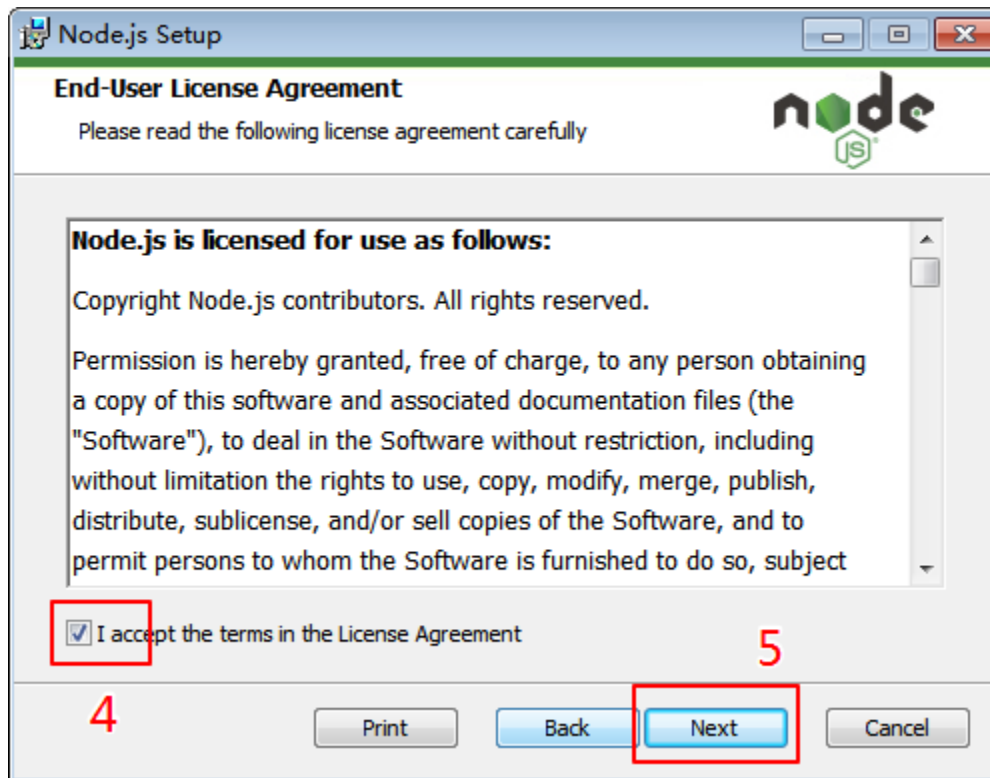
Other Downloads | Changelog | API Docs Other Downloads | Changelog | API Docs

Or have a look at the LTS schedule.

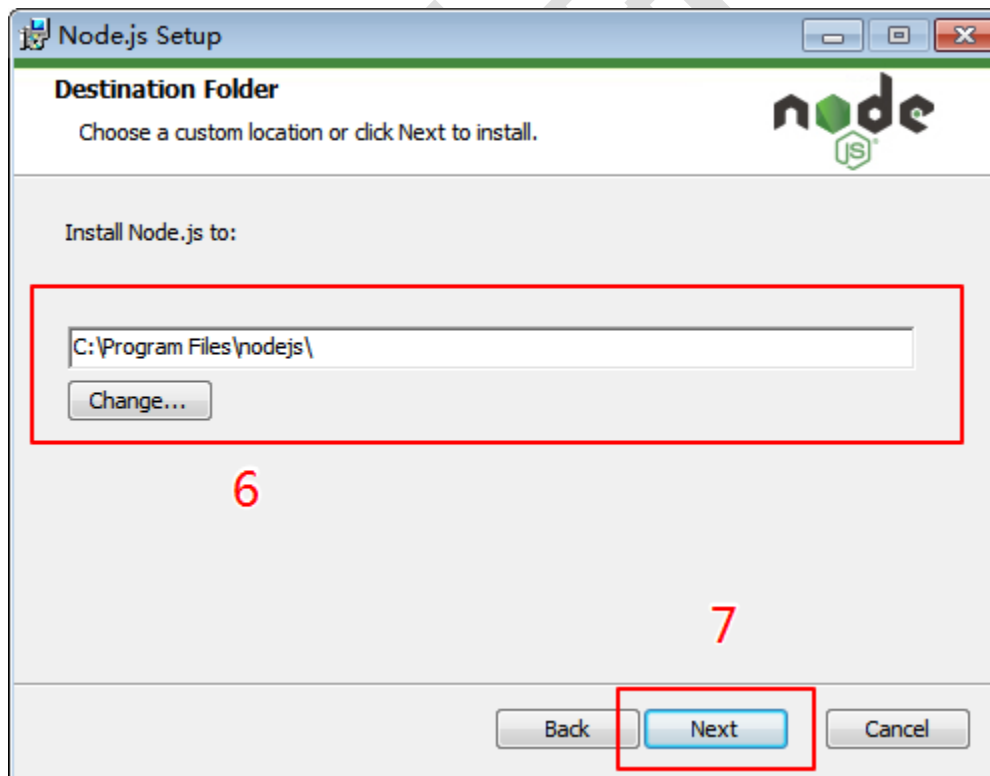
Sign up for Node.js Everywhere, the official Node.js Weekly Newsletter.

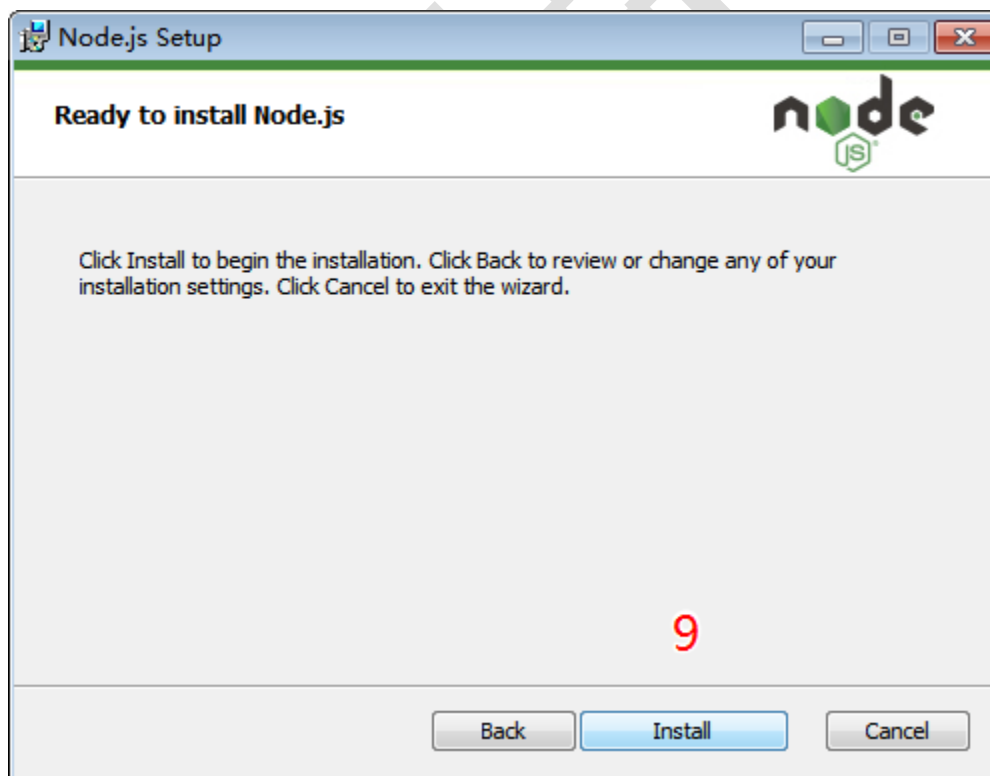
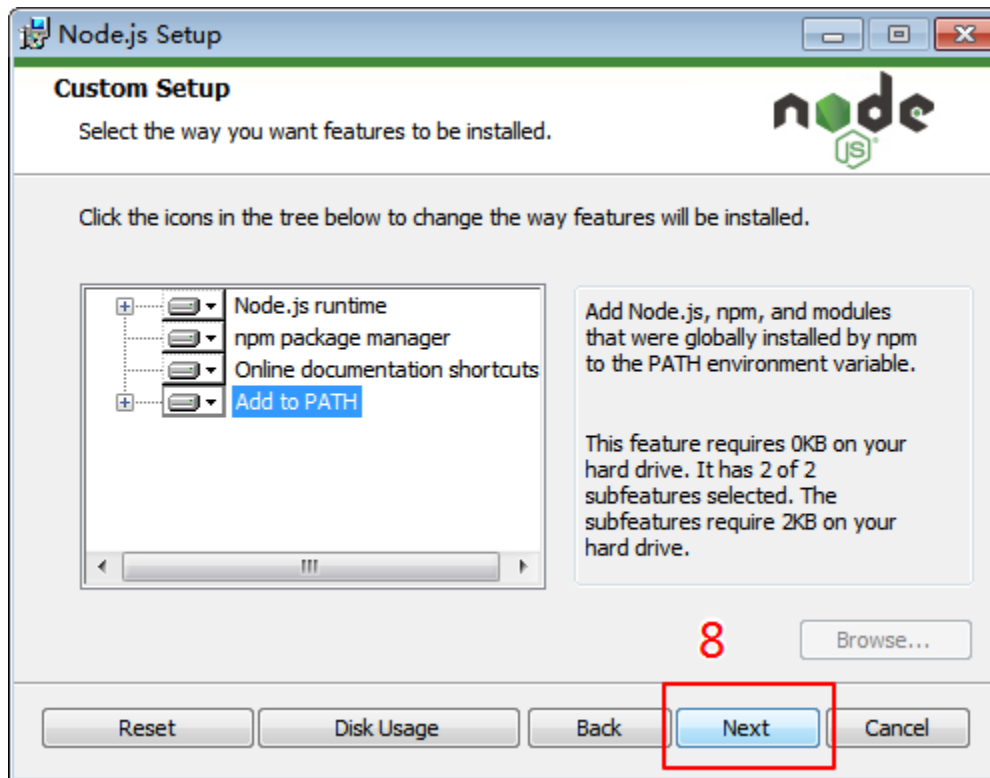
然后安装 node.js

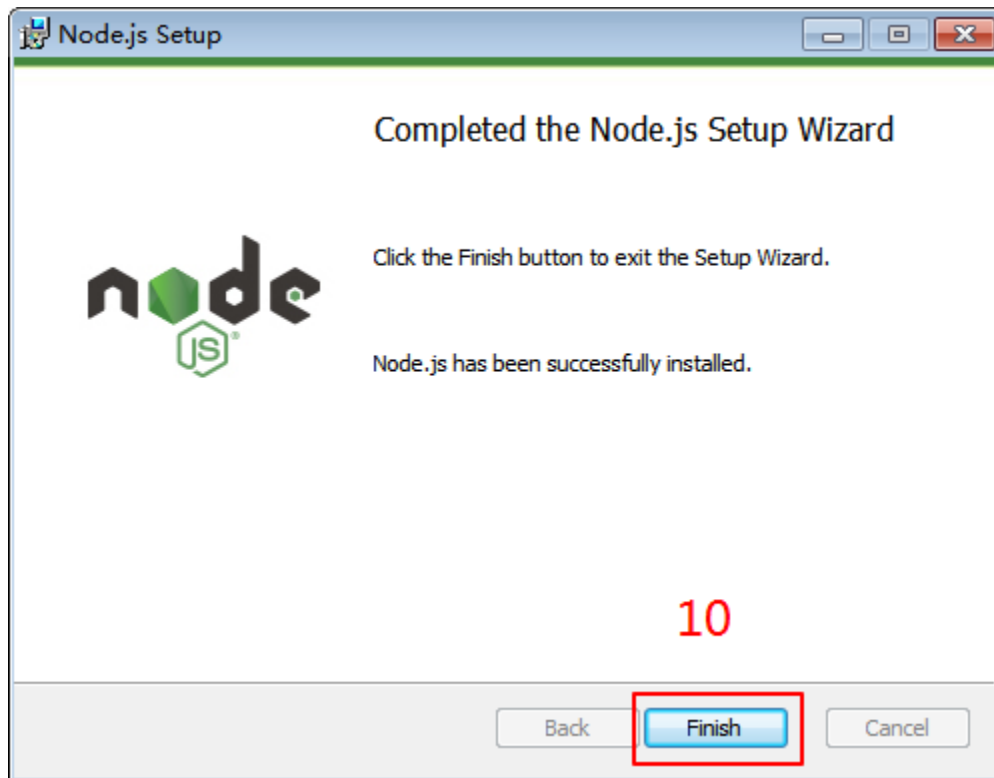




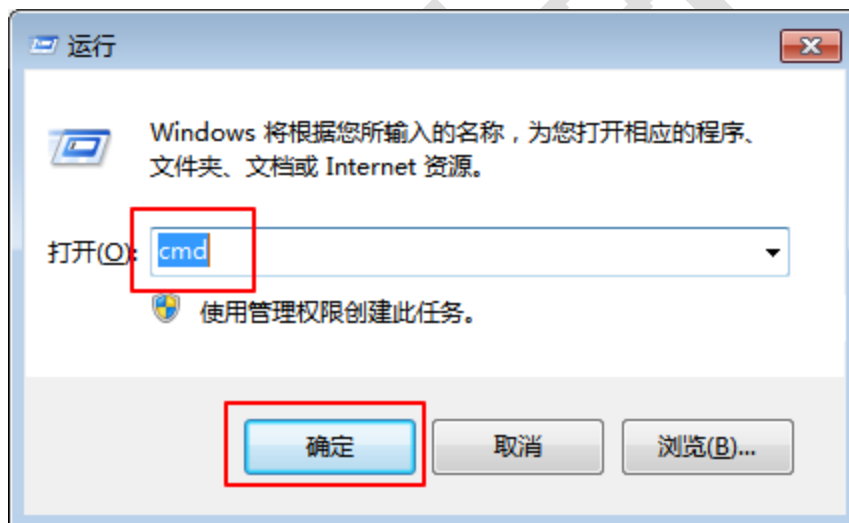
这里你需要更改你的安装目录







好了，我们安装好了 node.js，现在来测试一下。这里，使用“WIN+R”然后输入“cmd”



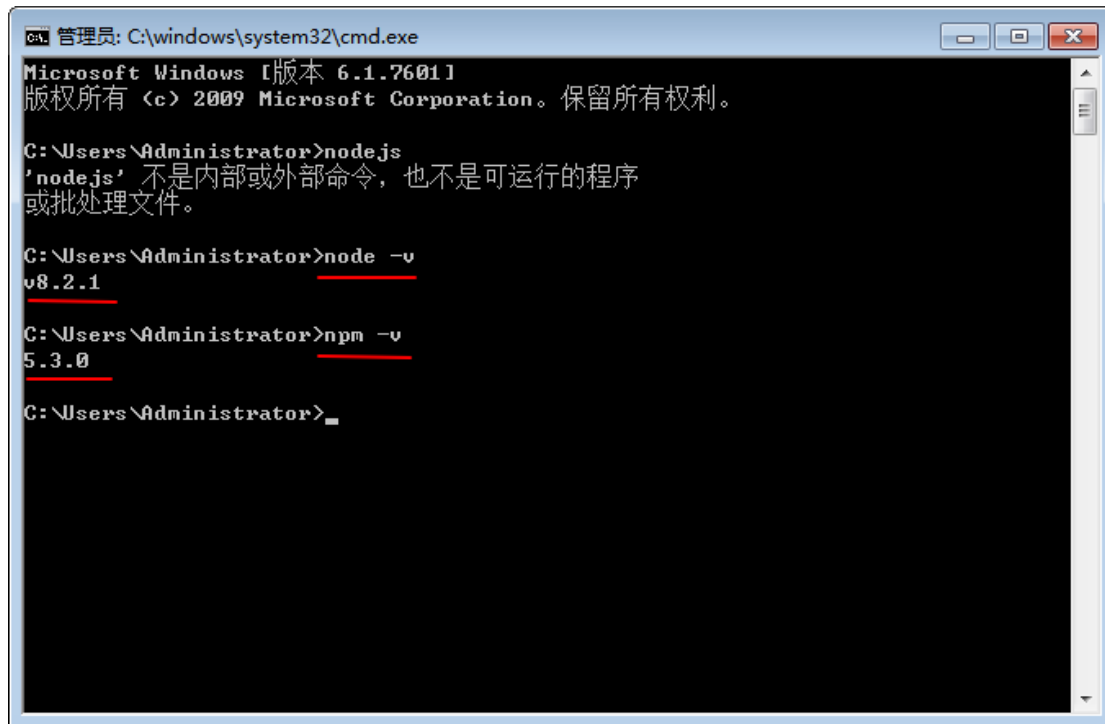
键入

node -v

和

npm -v

目前最新的 node.js 已经集成了 npm，可以直接检测 npm 的安装是否也同样成功



```
管理员: C:\windows\system32\cmd.exe
Microsoft Windows [版本 6.1.7601]
版权所有 (c) 2009 Microsoft Corporation。保留所有权利。

C:\Users\Administrator>nodejs
'nodejs' 不是内部或外部命令，也不是可运行的程序
或批处理文件。

C:\Users\Administrator>node -v
v8.2.1

C:\Users\Administrator>npm -v
5.3.0

C:\Users\Administrator>
```

好了目前初始环境已经配置完毕，我们开始安装 Node-RED

2.安装 NodeRED

好了目前初始环境已经配置完毕，我们开始安装 Node-RED

首先我们选择一个你要安装的文件夹，我选择在 D 盘新建的一个文件夹中安装。

一定要用管理员模式打开命令行并转到想要安装的文件夹下，键入

`npm install -g --unsafe-perm node-red`



```
node-red
Microsoft Windows [版本 10.0.15063]
(c) 2017 Microsoft Corporation。保留所有权利。

D:\nodered>npm install -g --unsafe-perm node-red
npm WARN deprecated i18next-client@1.10.3: you can use npm install i18next from version 2.0.0
npm WARN deprecated nodemailer@1.11.0: All versions below 4.0.1 of Nodemailer are deprecated. See https://nodemailer.com/status/
npm WARN deprecated node-uuid@1.4.8: Use uuid module instead
C:\Users\ubilabs\AppData\Roaming\npm\node-red -> C:\Users\ubilabs\AppData\Roaming\npm\node_modules\node-red\red.js
C:\Users\ubilabs\AppData\Roaming\npm\node-red-pi -> C:\Users\ubilabs\AppData\Roaming\npm\node_modules\node-red\bin\node-red-pi

> bcrypt@1.0.2 install C:\Users\ubilabs\AppData\Roaming\npm\node_modules\node-red\node_modules\bcrypt
> node-pre-gyp install --fallback-to-build

[bcrypt] Success: "C:\Users\ubilabs\AppData\Roaming\npm\node_modules\node-red\node_modules\bcrypt\lib\binding\bcrypt_lib.node" is installed via remote
+ node-red@0.17.5
added 363 packages in 139.208s
```

这时候，Node-RED 已经安装完毕了，输入

node-red

如果显示如下图 Welcome to Node-RED 就说明安装确实 ok 了

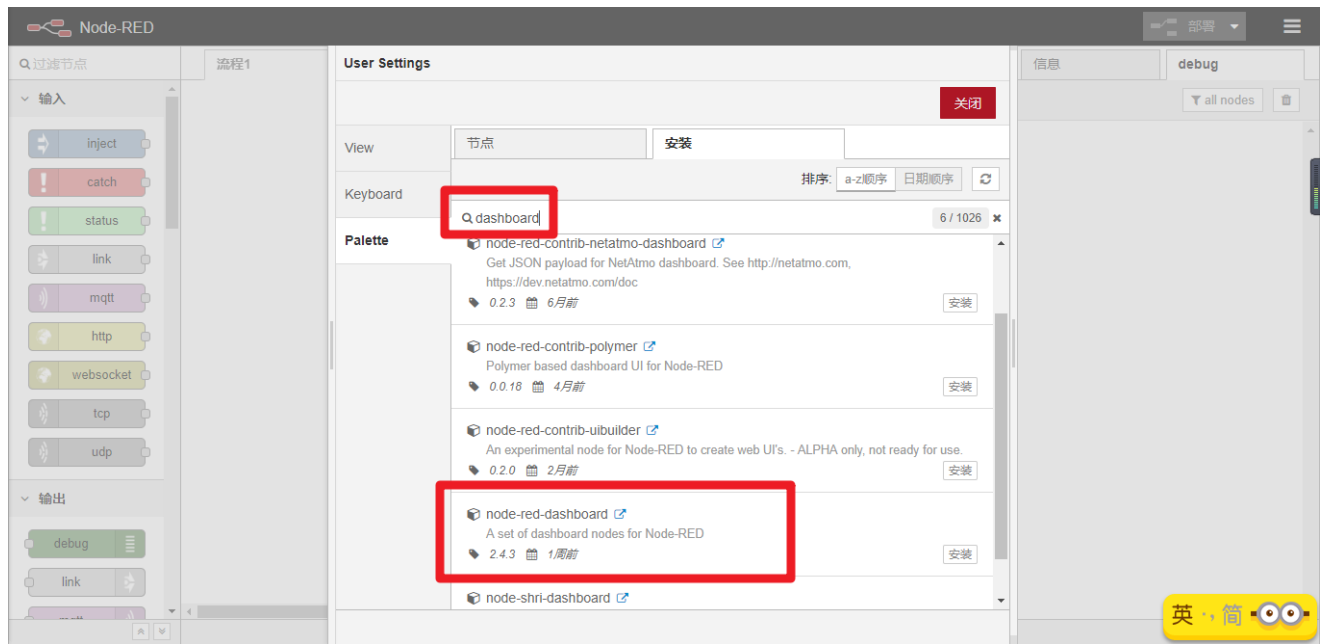
```
选择node-red
D:\nodered>node-red
27 Jul 16:12:28 - [info]
Welcome to Node-RED
=====
27 Jul 16:12:28 - [info] Node-RED version: v0.17.5
27 Jul 16:12:28 - [info] Node.js version: v8.2.1
27 Jul 16:12:28 - [info] Windows_NT 10.0.15063 x64 LE
27 Jul 16:12:30 - [info] Loading palette nodes
27 Jul 16:12:32 - [warn] -----
27 Jul 16:12:32 - [warn] [rpi-gpio] Info : Ignoring Raspberry Pi specific node
27 Jul 16:12:32 - [warn] [tail] Not currently supported on Windows.
27 Jul 16:12:32 - [warn] -----
27 Jul 16:12:32 - [info] Settings file : C:\Users\ubilabs\.node-red\settings.js
27 Jul 16:12:32 - [info] User directory : C:\Users\ubilabs\.node-red
27 Jul 16:12:32 - [info] Flows file : C:\Users\ubilabs\.node-red\flows_DESKTOP-RMSL7PM.json
27 Jul 16:12:32 - [info] Creating new flow file
27 Jul 16:12:32 - [info] Server now running at http://127.0.0.1:1880/
27 Jul 16:12:32 - [info] Starting flows
27 Jul 16:12:32 - [info] Started flows
```

这时候我们可以自行配置界面了

3.第一个 NodeRED 程序



比如我们可以安装个“dashboard”，

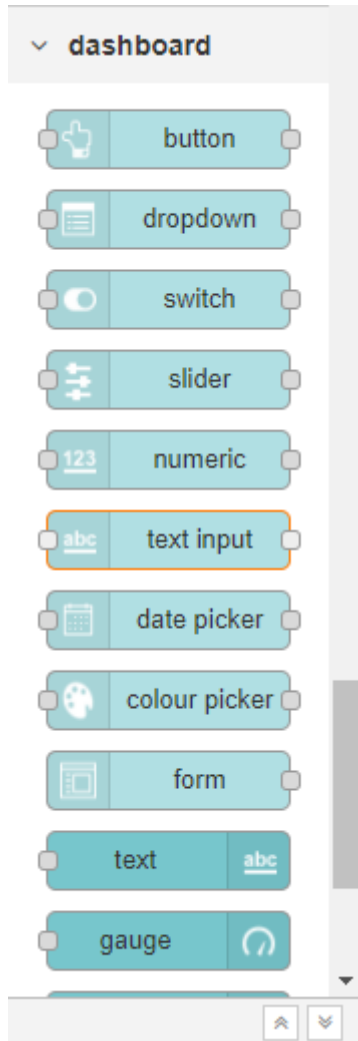


这个 dashboard 是有国外开发者不断更新的，从说明里面也可以看出来，最后一次更新已经是一周前了。

大多数电脑可以直接点击下载键，个别电脑对直接下载不是很友好，但可以用命令行 3 下载我们没有遇到过问题。

ps:<https://flows.nodered.org/node/node-red-dashboard> 这是 dashboard 的下载链接，如果无法搜索到可以直接点开这链接。

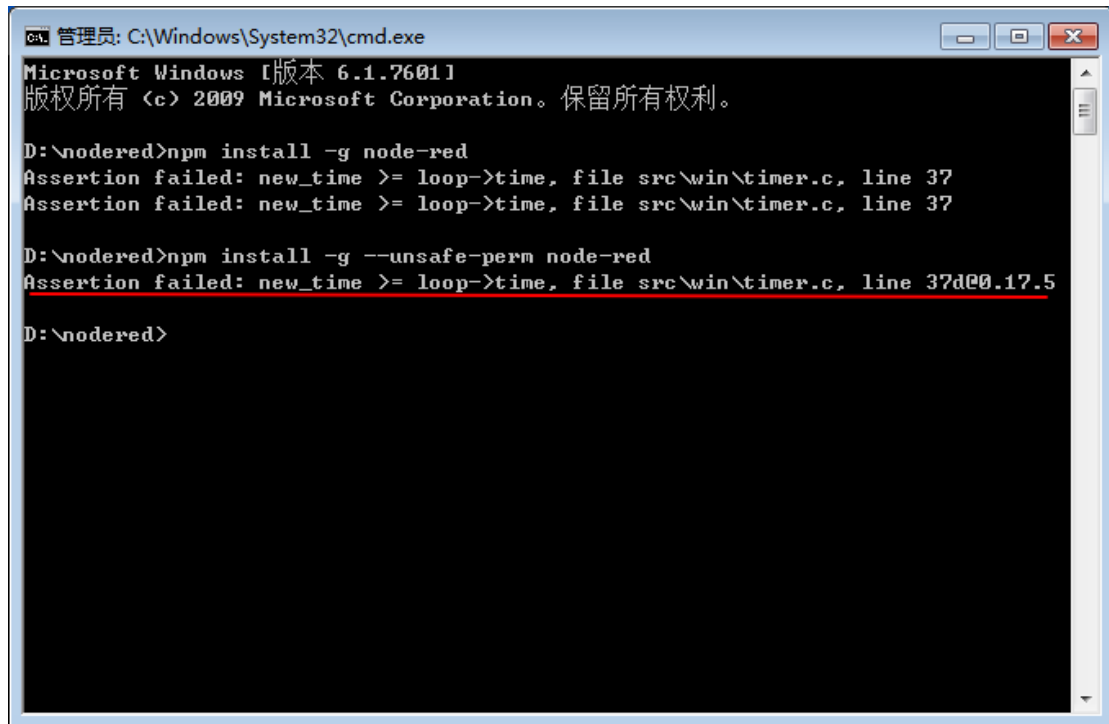
如果用命令行，需要先退出 Node-RED 服务然后键入命令行，之后重新键入 “node-red” 开启服务，你会看到左侧栏多了 dashboard 栏目



好了你可以开始第一条 Node-RED 的 Flow 了

4. 可能会有的问题与解决方法

一、之前也没有遇到过这问题，在 Google 上查了一下，原来是 nodejs 的问题，看了 GitHub 的 issue 说是在这台电脑上 nodejs 没有支持好，这就很尴尬了



The screenshot shows a Windows command prompt window titled "管理员: C:\Windows\System32\cmd.exe". The window displays the following text:

```
Microsoft Windows [版本 6.1.7601]
版权所有 (c) 2009 Microsoft Corporation。保留所有权利。

D:\nodered>npm install -g node-red
Assertion failed: new_time >= loop->time, file src\win\timer.c, line 37
Assertion failed: new_time >= loop->time, file src\win\timer.c, line 37

D:\nodered>npm install -g --unsafe-perm node-red
Assertion failed: new_time >= loop->time, file src\win\timer.c, line 37d00.17.5

D:\nodered>
```

二、如果迟迟安装不上，那就需要换一个淘宝镜像

用

`npm install node-red -save --registry https://registry.npm.taobao.org`

代替 `npm install -g --unsafe-perm node-red`