nodejs Fundamentals for Window

This document shows some basic information about nodejs.

# Installing nodejs

**General information**

Referring to <http://en.wikipedia.org/wiki/Node.js> : Node.js is a cross-platform runtime environment for server-side and networking applications. Node.js applications are written in JavaScript, and can be run within the Node.js runtime on Mac OS X, Windows and Linux with no changes.

Referring to <http://nodejs.org/> : Node.js® is a platform built on Chrome's JavaScript runtime for easily building fast, scalable network applications. Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient, perfect for data-intensive real-time applications that run across distributed devices.

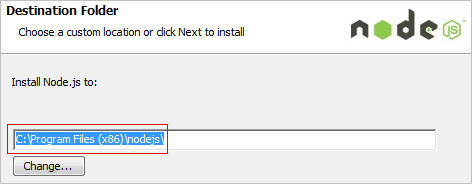
Some keywords:

* A software platform is something that an application can be built on or run on. It makes application development easier. Example: Window, Linux, iOS, Android, Symbian …
* Cross-platform (OR multi-platform): something is implemented and can operate on multiple platforms.
* Event-driven: the flow of program is determined by events. Events include both user-generated actions and system-generated events.
* Non-blocking I/O (OR Asynchronous I/D): is a form of input/output processing that permits other processing to continue before the transmission has finished.

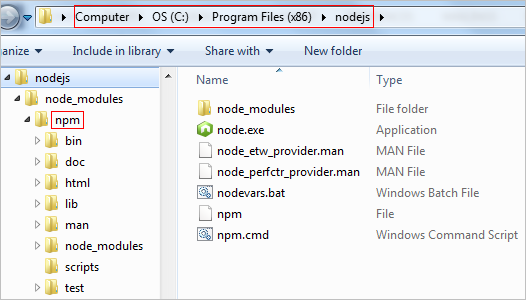
Node.js runs on V8. V8 is the Javascript extension engine for Google Chrome.

At this point, we use ***nodejs v0.10.29*** to install. You can download it at: <http://nodejs.org/download/>.

Run node-v0.10.29-x86.msi file and choose directory to install as:



It will install nodejs and npm into your system. You can check it as:



And you can use command line to check the version of nodejs as:

>node -v

Now, nodejs is ready for using.

# Why uses nodejs?

Reading some articles to know why use nodejs

<http://congdonglinux.vn/forum/showthread.php?1416-Gi%E1%BB%9Bi-thi%E1%BB%87u-v%E1%BB%81-Nodejs>

<http://www.infoq.com/interviews/node-ryan-dahl>

<http://www.nearform.com/nodecrunch/node-js-becoming-go-technology-enterprise/>

<http://www.toptal.com/nodejs/why-the-hell-would-i-use-node-js>

# Hello world

You can execute any Javascript file with nodejs. We will create very simple file using nodejs. You can name it as helloWorld.js.

The content of this file is:

var http = require('http');

var server = http.createServer(function(request, response) {  
 response.writeHead(200, { 'Content-Type': 'text/plain' });  
 response.write('Hello world!');  
 response.end();  
});

server.listen(8000);  
console.log('Server is started!');

You can run this file with nodejs as:

{path}>node helloWorld.js

It will create new server and run at port 8000. You can check new site at address:

http://{your\_ip}:8000/  
OR  
http://{your\_computer\_name}:8000/  
OR  
<http://localhost:8000/>

# Configuring new site with nodejs

nodejs can manage Javascript site/application such as AngularJS.

Writing ….