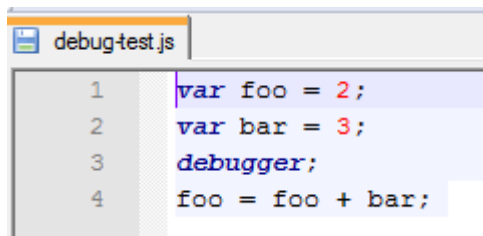


How to Debug in Nodejs

By

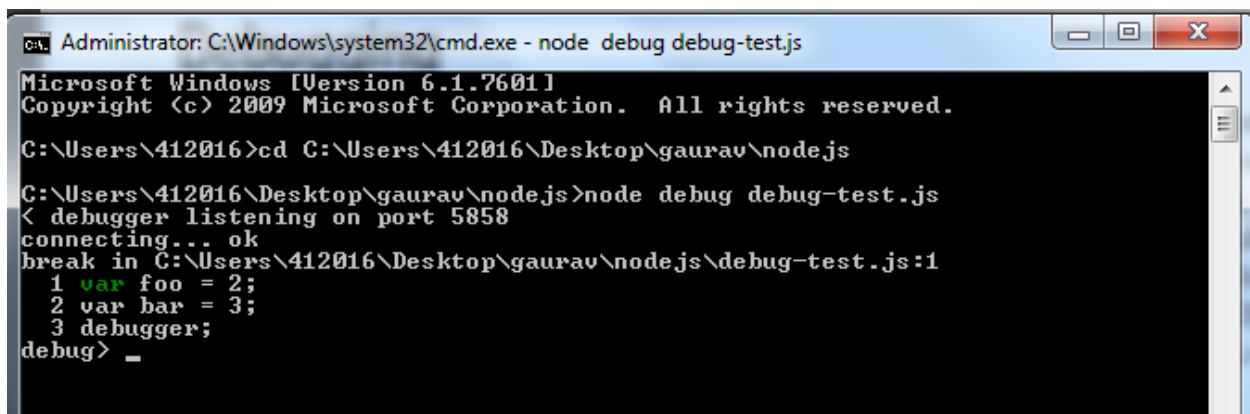
Gaurav Khurana

Lets create a file which we would like to debug



```
debug-test.js
1  var foo = 2;
2  var bar = 3;
3  debugger;
4  foo = foo + bar;
```

On command line type following



```
Administrator: C:\Windows\system32\cmd.exe - node debug debug-test.js
Microsoft Windows [Version 6.1.7601]
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C:\Users\412016>cd C:\Users\412016\Desktop\gaurav\nodejs
C:\Users\412016\Desktop\gaurav\nodejs>node debug debug-test.js
< debugger listening on port 5858
connecting... ok
break in C:\Users\412016\Desktop\gaurav\nodejs\debug-test.js:1
1  var foo = 2;
2  var bar = 3;
3  debugger;
debug> _
```

Type con tot c to continue debugging

Type n to step to next line

Type repl any time to test variables and their values

```
Administrator: C:\Windows\system32\cmd.exe - node debug debug-test.js
debug> repl
Press Ctrl + C to leave debug repl
> roo
ReferenceError: roo is not defined
> foo
debug> c
break in C:\Users\412016\Desktop\gaurav\nodejs\debug-test.js:3
1 var foo = 2;
2 var bar = 3;
3 debugger;
4 foo = foo + bar;
5 >>;
debug> n
break in C:\Users\412016\Desktop\gaurav\nodejs\debug-test.js:4
2 var bar = 3;
3 debugger;
4 foo = foo + bar;
5 >>;
debug> repl
Press Ctrl + C to leave debug repl
> foo
2
> bar
3
debug> n
break in C:\Users\412016\Desktop\gaurav\nodejs\debug-test.js:5
3 debugger;
4 foo = foo + bar;
5 >>;
debug> repl
Press Ctrl + C to leave debug repl
> foo
5
>
```

setBreakpoint() or sb()	Sets a breakpoint on the current line. As these are functions, you can also pass an argument to specify the line number on which to set the breakpoint. A breakpoint can be set on a line number in a specific file using the syntax sb("script.js", line).
clearBreakpoint() or cb()	Clears a breakpoint on the current line. As when using sb(), you can pass arguments in to clear breakpoints on specific lines.
backtrace or bt	Prints the backtrace of the current execution frame.
watch(expr)	Adds the expression specified by expr to the watch list.
unwatch(expr)	Removes the expression specified by expr from the watch list.
watchers	Lists all watchers and their values.
run	Runs the script.
restart	Restarts the script.
kill	Kills the script.
list(n)	Displays source code with n line context (n lines before and n lines after the current line).
scripts	Lists all loaded scripts.
version	Displays the version of v8.

```

C:\Users\412016\Desktop\gaurav\nodejs>node debug debug-test.js
< debugger listening on port 5858
connecting... ok
break in C:\Users\412016\Desktop\gaurav\nodejs\debug-test.js:1
1 var foo = 2;
2 var bar = 3;
3 foo = foo + bar;
debug> sh('debug-test.js',1)
* 1 var foo = 2;
2 var bar = 3;
3 foo = foo + bar;
4
5 console.log('hi');
6 >>;
debug> n
break in C:\Users\412016\Desktop\gaurav\nodejs\debug-test.js:2
* 1 var foo = 2;
2 var bar = 3;
3 foo = foo + bar;
4
debug> _

```

Real time debugging with chrome feeling

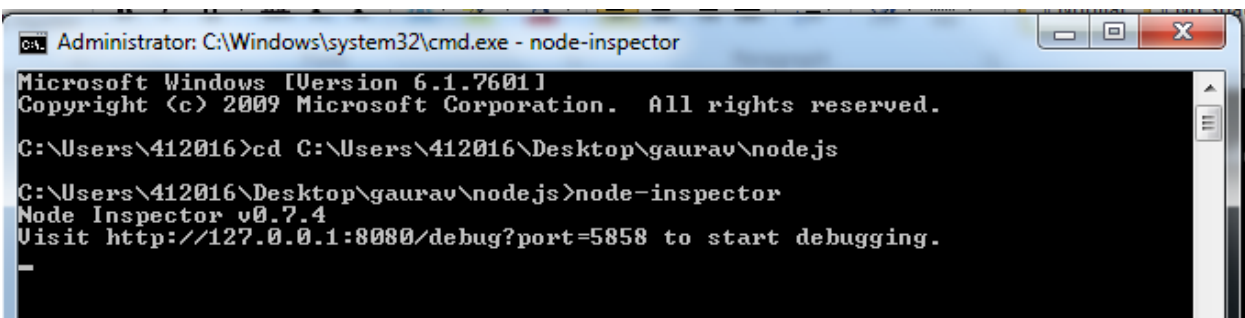
Install node-inspector

```

C:\Users\412016\Desktop\gaurav\nodejs>node --debug-brk debug-test.js
debugger listening on port 5858

```

Open another terminal and type



```

Administrator: C:\Windows\system32\cmd.exe - node-inspector
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\412016>cd C:\Users\412016\Desktop\gaurav\nodejs
C:\Users\412016\Desktop\gaurav\nodejs>node-inspector
Node Inspector v0.7.4
Visit http://127.0.0.1:8080/debug?port=5858 to start debugging.
_

```

Open this url in browser

