dnode



{"a":2,"b":3}

everybody writes this at some point

switch (msg.type) { Case: "foo"

- 0
- 0



ad-hoc callback routing



look ma, no switches!

```
var dnode = require('dnode');

var server = dnode({
    zing : function (n, cb) { cb(n * 100) }
});
server.listen(5000);
```

just call functions on the other side

```
var dnode = require('dnode');

dnode.connect(5000, function (remote) {
    remote.zing(66, function (n) {
        console.log('n = ' + n);
    });
});
```

client and server side by side

```
var dnode = require('dnode');

var server = dnode({
    zing : function (n, cb) { cb(n * 100) }
});
server.listen(5000);
```

```
var dnode = require('dnode');
dnode.connect(5000, function (remote) {
    remote.zing(66, function (n) {
        console.log('n = ' + n);
    });
});
```

pass along n...

```
var dnode = require('dnode');

var server = dnode({
    zing : function (n, cb) { cb(n * 100) }
});
server.listen(5000)
```

```
var dnode = require('dnode');

dnode.connect(5000, function (remote) {
    remote.zing 66 function (n) {
        console.log('n = ' + n);
    });
});
```

pass along the cb...

```
var dnode = require('dnode');

var server = dnode({
    zing : function (n, cb) { cb(n * 100) }
});
server.listen(5000);
```

```
var dnode = require('dnode');
dnode.connect(5000, function (remate) {
    romete.zing(66 function (n) {
        console.log('n = ' + n);
});
});
```

then just call the cb...

```
var dnode = require('dnode');

var server = dnode({
    zing : function (n, cb) { cb(n * 100) }
});
server.listen(5000);
```

```
var dnode = require('dnode');
dnode.connect(5000, function (remate) {
    remate.zing(66    function (n) {
        console.log('n = ' + n);
});
});
```

with the parameters you passed in...

```
var dnode = require('dnod');
var server = dnode({
    zing : function (n, cb) { cb(n * 100) }
});
server.listen(5000);
```

```
var dnode = require('dnode');
dnode.connect(5000, function (remate) {
    remate.zing(66    function (n) {
        console.log('n = ' + n);
});
});
```

and your callback gets the result...

```
var dnode = require('dnode');
var server = dnode({
    zing : function (n, cb) \{ cb(n * 100) \}
});
server.listen(5000);
var dnode = require('dnode');
dnode.connect(5000, function (monte) {
    remote.zing(66, function (n)) {
        console.log('n = ' + n);
    });
```

which you can use for whatevs

```
var dnode = require('dnode');
var server = dnode({
    zing : function (n, cb) \{ cb(n * 100) \}
});
server.listen(5000);
var dnode = require('dnode');
dnode.connect(5000, function (\(\delta\)mote) {
    remote.zing(66, function (n)
        console.log('n = ' + n);
    });
```

that's all it takes!

```
code $ node zing_server.js &
[1] 21671
code $ node zing_client.js
n = 6600
^C
```

fuck yeah, callbacks!



fuck yeah, callbacks!



Now let's do that in the browser.

web server

```
var express = require('express');
var app = express.createServer();
app.use(express.static(__dirname));
app. listen (8080);
var dnode = require('dnode');
var server = dnode({
    zing : function (n, cb) \{ cb(n * 100) \}
});
server.listen(app);
```

network and web server

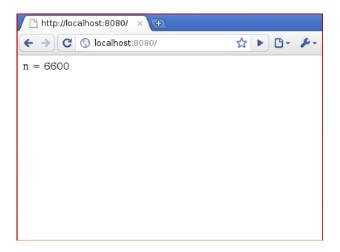
```
var express = require('express');
var app = express.createServer();
app.use(express.static(__dirname));
app. listen (8080);
var dnode = require('dnode');
var server = dnode({
    zing : function (n, cb) \{ cb(n * 100) \}
});
server.listen(app);
server.listen(5000);
```

just hack up an index.html:

```
<html>
<head>
 <script type="text/javascript" src="/dnode.js">
 </script>
 <script type="text/javascript">
    DNode.connect(function (remote) {
      remote.zing(66, function (n) {
        document.getElementById("res").innerHTML
          = 'n = ' + n:
      });
  </script>
</head>
<body>
 <div id="res"></div>
</body>
</html>
```

zing web output

it works!



callbacks fo' real



```
remote.turtles(function (f) {
    f(function (g) {
        g(function (h) {
          h('fuck yeah callbacks');
        });
    });
});
```

callbacks fo' real



```
remote.turtles(function (f) {
    f(function (g) {
        g(function (h) {
          h('fuck yeah callbacks');
        });
    });
});
```

It's callbacks all the way down.

github.com/substack/dnode-ruby

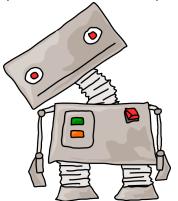
```
require 'rubygems'
require 'dnode'

DNode.new({}).connect(5050) do |remote|
    remote.f(30000) { |x| puts "x=<#{x}>" }
end
```

github.com/substack/dnode-perl

```
#!/usr/bin/env perl
use warnings;
use strict;
use DNode:
DNode \rightarrow new(\{\}) \rightarrow connect(5050, sub \{\})
     mv  $remote = shift;
     remote - \{f\} (1337, sub \}
          my $x = shift:
          print "x = x n":
    })
```

github.com/aslakhellesoy/dnode-java



github.com/substack/dnode

