

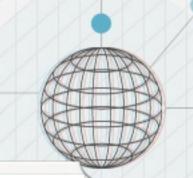
SOCKET.10

- LEVEL SIX -









Hello from Chattr

ERIC

DERRICK

CONNECTED TO CHATTR

Eric joined the room

Derrick

Hey buddy!

Eric

I'm having a great time over here?

Derrick joined the room

Type your message

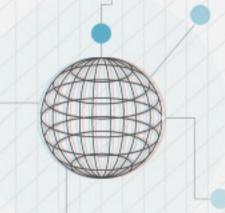
SEND







WEBSOCKETS









traditional server

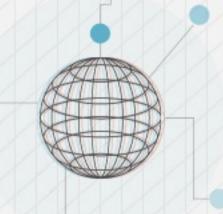
Traditional request/response cycle

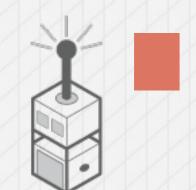






WEBSOCKETS









socket.io

browser

Using duplexed websocket connection







SOCKET.10 FOR WEBSOCKETS



Abstracts websockets with fallbacks

\$ npm install --save socket.io

```
app.js
var express = require('express');
var app = express();
var server = require('http').createServer(app);
var io = require('socket.io')(server);
io.on('connection', function(client) {
  console.log('Client connected...');
});
app.get('/', function (req, res) {
  res.sendFile(__dirname + '/index.html');
});
server.listen(8080);
```





SOCKET.10 FOR WEBSOCKETS



socket.io client connects to the server







SENDING MESSAGES TO CLIENT



```
io.on('connection', function(client) {
    console.log('Client connected...');

    emit the 'messages' event on the client
    client.emit('messages', { hello: 'world' });
});
```





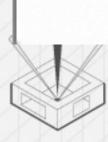
CHATTR HELLO WORLD



demo - pasn

\$

I





SENDING MESSAGES TO SERVER



```
io.on('connection', function(client) {
   client.on('messages', function (data) {
        console.log(data);
   });
   listen for 'messages' events
});
```

```
<script>
  var socket = io.connect('http://localhost:8080');

$('#chat_form').submit(function(e){
   var message = $('#chat_input').val();
   emit the 'messages' event on the server
   socket.emit('messages', message);
});
</script>
```

SOCKET.10



CHATTR HELLO WORLD



\$

I

level4 - bash



SOCKET.10



BROADCASTING MESSAGES



app.js

clients

socket.broadcast.emit("message", 'Hello');





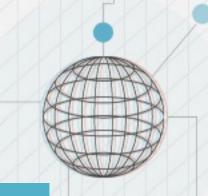








BROADCASTING MESSAGES



app.js

```
io.on('connection', function(client) {
   client.on('messages', function (data) {
      client.broadcast.emit("messages", data);
   });
   broadcast message to all other clients connected
});
```

```
<script>
...

socket.on('messages', function(data) { insertMessage(data) });
</script>

insert message into the chat
```







BROADCASTING MESSAGES



\$





SAVING DATA ON THE SOCKET









SAVING DATA ON THE CLIENT



```
io.on('connection', function(client) {
 client.on('join', function(name) {
    client.nickname = name;
                                set the nickname associated
 });
                                       with this client
 client.on('messages', function(data){
                                        get the nickname of this client
before broadcasting message
   var nickname = client.nickname;
   client.broadcast.emit("message", nickname + ": " + message);
                             broadcast with the name and message
   client.emit("messages", nickname + ": " + message);
                             send the same message back to our client
 });
});
```

