Mini Client Project

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URL: http://nodesample-gschilli.rhcloud.com/

Rubric

1. My page loads and displays a Bitcoin Heatmap. It is a simple, clean table where each table cell represents the price and 24 hour % change of a different cryptocurrency on a different exchange. The table cell's are colored based off the 24 hour % change.

Bitcoin HeatMap

Utilizes blockr.io API

Refreshes once a minute

втс	LTC	DGC	QRK
Coinbase	BTC China	Virculex	Vircurex
404.87000000	0.01064200	0.00030000	0.00002179
-1.49%	1.28%	6.33%	2.34%
BTCe	BTCe	BTC38	BTC38
388.99000000	0.01076000	0.00002700	0.00002200
-0.21%	-0.74%	18.52%	4.55%
Bitstamp		Vircurex	Bter

2. I make an ajax request to my server on a button click to display a simple list with some details about my page:

```
$(function() {
  $('form[name="d"] input').click(function() { //on click
        $.getJSON("data.json", function(responseObject, diditwork) {
//load data.json (local file)
            console.log(diditwork);
            var displayText = ""
            for (var i = 0; i<responseObject.pageDescription.length;
i++) {
                var sentence = responseObject.pageDescription[i];
                displayText += ""+ sentence.item + "<\/li>";
//display each array item as a sentence in a list
            displayText += "<\/ul>";
        $("#responseDescription").html(displayText);
        } ); // getJSON
  }); // click
  main()
} ); // onReady
```

Page Description

- · This page displays a heatmap for multiple cryptocurrencies
- Bitcoin, Litecoin, Digitalcoin and Ouarkcoin are the columns of the table
- Each box represents a different exchange (ex: Coinbase)
- Each box displays the current price and 24 hour % change of the cryptocurrency
- 3. I make multiple Ajax requests to blockr.io to pull current price information into my table. The picture in number 1 displays this as well as the sample code below.

```
var percentChangebtce =
Math.round(responseObject.data.markets.btce.daily_change.perc * 100)/100;
           var displayTextbtce =
responseObject.data.markets.btce.daily change.value + " " + percentChangebtce +
"%";
           var percentChangeStamp =
Math.round(responseObject.data.markets.bitstamp.daily_change.perc * 100)/100;
           var displayTextStamp=
responseObject.data.markets.bitstamp.daily change.value + " " +
percentChangeStamp + "%";
           //Store price and 24 hour percent change for bitcoin from 3 different
exchanges
        $("#responseArea1").html(displayTextCoin);
        color(".color1", percentChangeCoin);
        $("#responseArea2").html(displayTextbtce);
        color('.color5', percentChangebtce);
        $("#responseArea3").html(displayTextStamp);
        color(".color9", percentChangeStamp);
       //Place info in appropriate table cell and call color function to display
correct color on heatmap
       });
};
```

4. My 3 points of user interaction are 1) displaying the full name of coins with a mouseover event, 2) increasing the size of table cells on a click event, and 3) slide up events on the two images at the bottom of the page.

втс	Litecoin	DGC	QRK
Coinbase 404.87000000 -1.49%	BTC China 0.01064200 1.28%	Virculex 0.00030000 6.33%	Vircurex 0.00002179 2.34%

The picture above displays the first two interactions, one table cell is increased in size and the "Litecoin" header is using the mouseover event.

Relevant Code:

```
$('#litecoin').mouseover(function(){
    $(this).text("Litecoin"); //Display full name of coin on mousover
  });
  $('#litecoin').mouseleave(function(){
    $(this).text("LTC");
  });
$('td').on("click", function(){
    $(this).addClass("increase"); //Increase size of table cells by adding class on
click
  });
.increase{
       width: 150px;
  height: 150px;
}
$('img').on("click", function(){
    $(this).slideUp(); //Have Images slideUp on click
  });
```

5. Here is the code for at least 10 instances of Jquery:

```
$('#bitcoin').mouseover(function(){
    $(this).text("Bitcoin"); //Display full name of coin on mousover
});
$('#bitcoin').mouseleave(function(){
    $(this).text("BTC");
});
$('#litecoin').mouseover(function(){
    $(this).text("Litecoin"); //Display full name of coin on mousover
});
$('#litecoin').mouseleave(function(){
    $(this).text("LTC");
});
$('#digitalcoin').mouseover(function(){
    $(this).text("Digitalcoin"); //Display full name of coin on mousover
});
```

```
$('#digitalcoin').mouseleave(function(){
    $(this).text("DGC");
  $('#quarkcoin').mouseover(function(){
    $(this).text("Quarkcoin"); //Display full name of coin on mousover
  $('#quarkcoin').mouseleave(function(){
    $(this).text("QRK");
  });
  $('td').on("click", function(){
    $(this).addClass("increase"); //Increase size of table cells by adding class
on click
  });
  $('img').on("click", function(){
    $(this).slideUp(); //Have Images slideUp on click
 });
$.get[SON("data.json", function(responseObject, diditwork) { ...
function color(tdString, percent){ //color function takes in the id of a table
cell and the percent change
 if (percent > 0.25 \&\& percent <= 2.50){
    $(tdString).addClass("lightgreen");
  else if (percent > 2.50){
    $(tdString).addClass("green");
  else if (percent < -0.25 \&\& percent >= -2.50)
    $(tdString).addClass("lightred");
  else if (percent< -2.50){
    $(tdString).addClass("red");
  else{
    $(tdString).addClass("gray");
$.get(http://btc.blockr.io/api/v1/coin/info) ...
```

6. My html, javascript and css are well separated into these 3 files: index.html, index.js, and base.css.

7. My javascript is well commented, this code gives a brief example:

```
$('#quarkcoin').mouseover(function(){
    $(this).text("Quarkcoin"); //Display full name of coin on mousover
});
$('#quarkcoin').mouseleave(function(){
    $(this).text("QRK");
});
$('td').on("click", function(){
    $(this).addClass("increase"); //Increase size of table cells by adding class on click
});
$('img').on("click", function(){
    $(this).slideUp(); //Have Images slideUp on click
```

8. I find this mini site to be particularly useful for me or anyone else interested in trading cryptocurrencies. It loads instantly and gives you a good feel for the market at any particular time based on the coloring. This can lead to quick decisions in trading which is essential. I've saved this as a mobile site of my phone and view it periodically throughout the day.