jQuery Plugins Project

# **Report**

## **Project: Final Assignment Part B**

**Code Repository:** [**https://github.com/kerruish/jQuery-Project**](https://github.com/kerruish/jQuery-Project)

## **Subject: Client Side Scripting 2**

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**HightCharts**

The biggest challenge with Highcharts was creating datasets to use. We took several approaches initially and have two solid working examples.

The first approach involved pulling the data into a SQL database and running a custom API that created a XML HTTP instance from which we could query the data. This meant that only the actual requested data was returned to the client and despite being slightly more complex, this approach used far less bandwidth then the second approach.

The second approach involved pulling the data down directly from the CSO site using a shell script, converting it from JSON-stat to JSON using a node module. The JSON is then used to produce the chart arrays. This approach involved the client receiving all the JSON data.

We took several slightly different approaches to creating the Charts however they all use the getJSON method (or a longhand ajax function). We have demonstrated the ability to create the charts directly from the datasets and, creating arrays that can be manipulated.

Highchart options are very well documented we have demonstrated multiple approaches for configuring the options in different charts.

We have also done custom styling on the charts after they are rendered using custom jQuery.

**ScrollMagic**

We created individual scenes for each of the charts and categories dynamically based on their class in a jQuery loop.

These scenes have two sets of CSS associated with then – before and after and the transition between the two is animated using GreenSocks’ GSAP.

**Grunt.JS - Java Script Task runner**

GruntJS is used for the task runner.

We are concatenating all the Javascript files and CSS in the src directory and minifying them – the output is stored as our-data-site.min.js and our-data-site.min.css in the dist directory.

We are minifying the JSON files – this is halving the size of the JSON files.

We are running JSHINT to ensure good, error free code. We are hiding warnings regarding dot notation use – as we did not want to change the datasets directly.

**GitHub**

<https://github.com/kerruish/jQuery-Project>

Our code has been stored on GitHub. Using GitHub has provided us with an easy and consistent way to collaborate and deploy our codebase. We have a node.js server on Azure and along with Flightplan – we can deploy to this server the latest Git Hub codebase in a single command.