**Meerkat Software Training**

**Web Programming in Python**

**Exercise:** Playing with the basics.

**Primary Target:** We’ll begin again with working through the [www.w3schools.com](http://www.w3schools.com/) Javascript tutorial. The aim is to familiarise yourself with the basics of JavaScript and JQuery. All of the following stages would be useful to work through:

JS Introduction JQuery Intro

JS Where To JQuery Get Started

JS Output JQuery Syntax

JS Syntax JQuery selectors

JS Statements

JS Comments

JS Variables

JS Operators

JS Arithmetic

Js Assignment

JS Data Types

JS Functions

**Advanced target:** If you are already comfortable and familiar with the basics of Javascript, let’s actually write some javascript into Meerkat Frontend. The dashboard section of the technical site is made up of a series of tabs e.g. Demographics, Alerts, Completeness etc… For the purposes of this training a blank tab template has been added to the git “training” branch in Meerkat Frontend. Check the branch out, start the docker containers and confirm that you see the tab labelled “Template” in the Dashboard.

The HTML for each tab is loaded from the static resources, because the dashboard is a Javascript app - each tab is requested and loaded using a Javascript powered engine. Find the blank template file (template.html) in the static resources folder and play around with the Javascript in it. See if you can view your changes in the web browser. Perhaps add a Javascript function to a JavaScript file in the “meerkat\_frontend/static/js” folder, and see if you can reference it from within the tab.

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**Exercise: Getting JSON data from the API.**

In this exercise we will write the Javascript to get and format data from the Meerkat API.

* If you haven’t already, begin by working through the advanced target of the previous exercise. You should find the file [template.html] in Meerkat Frontend, write JavaScript into it, and view the changes in your web browser.
* Make a request to the API for some JSON data.

We request data formatted as JSON from the api using a function from the JQuery software [$.getJSON(url, function)]. Read about how this function works here:

<http://api.jquery.com/jquery.getjson/>

* Nest a get JSON request?
* Do some looping and print out data.
* Draw a chart using highcharts?

**Basic Target:** Work through the following steps...

**Advanced Target:** Change the page design to match the other pages in Meerkat Frontend.

The file [meerkat\_frontend/meerkat\_frontend/templates/error.html] is a simple example of how to create a page that matches the design of the rest of the site. Merge the contents of this file into your newly created JINJA2 template so that your location page has a visual design that matches the visual design of the rest of the site.