Beating Heart of the World: readme document

Website URL: http://beatingheartoftheworld.nil249.webfactional.com/

Screencast URL: https://www.youtube.com/watch?v=N0QX8SDmT44

For best results, this website should be viewed on a Chrome web browser at 1435px X 772px.

The Beating Heart of the World files and folders are organised as follows:

- **Beating Heart of the World**
  - *One folder containing all of the project files and documents.*
  - **Read me document**
    - *Details the organisation of the files and folders comprising this submission.*
  - **Process book**
    - *Contains the Team Expectation Agreement.*
    - *Details the process used to reach the final website design.*
  - **Website files**
    - **index.html**
      - *The main website html file that reads in all css and JavaScript elements.*
    - **css**
      - **bootstrap.min.css**
        - *Front-end component library.*
        - *Source: https://getbootstrap.com*
      - **scatter.css**
        - *The style sheet for view 5 of the website.*
      - **style.css**
        - *The style sheet for views 1-4 and views 6-9 of the website.*
      - **viewScroller.css**
        - *The styling library of the ViewScroller.js (one-page scroll library).*
        - *Source: https://github.com/Viewdesic/viewScroller.js*
    - **data**
      - **continents.json**

        - *Dataset defining the geographic coordinates of each country.*
    - **data_bp_combined_fixed.csv**
        - *Dataset for the view 5 visualisation that contains the following variables:*
            - *country*
            - *region*
            - *year*
            - *gender*
            - *population*
            - *CVD DALYs*
            - *blood pressure*
    - **mean-total-blood-cholesterol-age-adjusted.csv**
        - *Dataset for the view 7 visualisation that contains the following variables:*
            - *Country*
            - *Year*
            - *Cholesterol*
            - *Gender*
            - *Threshold for cholesterol levels*
            - *High cholesterol cutoff*
            - *Prevalence of High Cholesterol Diagnosis (extracted from raised-total-cholesterol-adult-6plus-2008.csv*)
    - **merged_worldmap.csv**
        - *Dataset used to create view 2 visualisations that contains worldwide mortality data.*
    - **Prevalence-overweight-obese-physical-activity.csv**
        - *Dataset used to create view 8 visualisations. It describes the prevalence of overweight, obesity, smoking, and physical inactivity in each of the countries.*
    - **raised-total-cholesterol-adult-6plus-2008.csv**
        - *Dataset used to create view 7 visualisation that contains high cholesterol prevalence data for each country, by gender.*
    - **risk_factors.json**
        - *Dataset defining the number of risk factor images appearing in the view 3 visualisation.*
    - *Additional datasets used to create the main visualisation datasets are also contained in this folder.*
- **js**
    - **bootstrap.min.js**
        - *Front-end component library.*

    - *Source: https://getbootstrap.com*
- **cholesterol_line.js**
    - *Creates the line graph on view 7 by:*
        - *Setting margins, width and height.*
        - *Defining variables.*
        - *Reading in the following datasets and formats the variables.*
            - *mean-total-blood-cholesterol-age-adjusted.csv*
        - *Configuring and rendering the line graph.*
        - *Setting initial graph parameters.*
        - *Defining how graph responds to user interaction.*
- **d3.min.js**
    - *JavaScript library for visualizing data using web standards.*
    - *Source: https://github.com/d3/d3/wiki*
- **d3-legend.min.js**
    - *D3 legend library.*
    - *Source: https://gist.github.com/ZJONSSON/3918369*
- **d3-tip.js**
    - *Javascript library enabling d3-tip for D3.*
    - *Source: http://bl.ocks.org/davegotz/bd54b56723c154d25eedde6504d30ad7*
- **heart.js**
    - *Creates the animation on view 3 by:*
        - *Defining icon, heart, margin, height and width size, as well as the size of the animation itself.*
        - *Defining and rendering the start, transition and end of the animation.*
- **jquery.animateNumber.min.js**
    - *jQuery library for number animation.*
    - *Source: http://aishek.github.io/jquery-animateNumber/*
- **jquery.easing.min.js**
    - *jQuery library that gives advanced easing options.*
    - *Source: https://github.com/gdsmith/jquery.easing*
- **jquery.min.js**
    - *jQuery JavaScript library.*
    - *Source: https://jquery.com/*
- **jquery.mousewheel.min.js**
    - *jQuery library that adds cross-browser mouse wheel support.*
    - *Source: https://github.com/jquery/jquery-mousewheel*
- **load_data.js**

    - *Reads in .csv and .json datafiles for use in the view 5 and view 3 visualisations.*
- **main.js**
    - *Defines the view scroller and navigation dots that appear on the right hand side of each page on the website.*
- **Popper.min.js**
    - *Javascript library that works as a positioning engine. Its purpose is to calculate the position of an element to make it possible to position it near a given reference element.*
    - *Source: https://popper.js.org/*
- **Prevalence.js**
    - *Creates the bar-chart on view 8 by:*
        - *Defining margins, sizes, svg elements, and variables.*
        - *Loading prevalence-overweight-obese-physical-activity.csv*
        - *Ranking data in order of prevalence.*
        - *Defining what happens to the chart when the user selects from the drop down menu and hovers over chart elements.*
- **queue.v1.min.js**
    - *JavaScript library that enables loading of multiple files before running the rest of the code.*
    - *Source: https://github.com/d3/d3-queue*
- **scatter.js**
    - *Creates the visualization in view 4 by:*
        - *Setting initial parameters.*
        - *Configuring and rendering the scatterplot.*
        - *Defines how the visualisation is updated when the user selects from the dropdown menus.*
        - *Performs linear regression in order to obtain trend. data presented on the right hand side of the screen.*
- **topojson.min.js**
    - *GeoJSON extension to that encodes topology.*
    - *Source: https://cdnjs.com/libraries/topojson*
- **viewScroller.js**
    - *A JavaScript library that allowed us to create a full page scrolling template.*
    - *Link to ViewScroller Library: https://github.com/Viewdesic/viewScroller.js*
- **world_legend.js**
    - *Creates the world map that forms the legend for the scatterplot on view 5, by:*

        - *Defining margins, sizes, svg elements and variables.*
        - *Rendering the world map.*
        - *Defining what events follow a region being selected and mouse hovering over the image.*
    - **worldmap.js**
        - *Creates the visualisations on view 2 by:*
            - *Defining margins, sizes, svg elements and variables.*
            - *Reading in:*
                - *world-110m.json*
                - *Merged_worldmap.csv*
            - *Rendering the world map and bar chart.*
- **Images**
    - *This folder contains all images and icons used in the website.*