



PROJECT

Make Effective Data Visualization

A part of the Data Analyst Nanodegree Program

PROJECT REVIEW

CODE REVIEW 8

NOTES

▼ index.html 8

```

1 <!DOCTYPE html>
2 <html lang="en">
3   <head>
4     <meta charset="utf-8">
5     <meta http-equiv="X-UA-Compatible" content="IE=edge">
6     <meta name="viewport" content="width=device-width, initial-scale=1">
7     <title>DAND_P6 - Discovering the baseball dataset</title>
8
9     <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.3/jquery.min.js"></script>
10    <script src="js/bootstrap.min.js"></script>
11    <script src="js/d3.min.js"></script>
12    <script src="js/dimple.min.js"></script>
13    <link href="css/bootstrap.css" rel="stylesheet">
14    <script type="text/javascript">
15      var width = $(window).width(),

```

SUGGESTION

Lines 15-17 has too much indent, it looks like elsewhere you use 4 spaces but here 5 spaces used.

```

16      height = $(window).height();
17      var timer = 0;
18      function draw_avg_line(svg, chart, x_axis, y_axis, axis, value){
19        //function to draw average lines on the plots
20        if (axis == "y"){
21          svg
22            .append("line")
23            .attr("x1", x_axis._scale(value))

```

REQUIRED

It is better to indent chained statements to show where they start and end. And it should be done in the s

```

if (axis == "y"){
  svg
    .append("line")
    .attr("x1", x_axis._scale(value))
    .attr("x2", x_axis._scale(value))
    .attr("y1", chart._yPixels() + chart._heightPixels())
    .attr("y2", chart._yPixels())
    .attr("class", "avg-y")
    .style("stroke", "red")
    .style("stroke-dasharray", "3");
  svg
    .append("text")
    .attr("y", chart._yPixels() - 5)
    .attr("x", x_axis._scale(value) + 5)
    .attr("width", 500)
    .attr("height", 30)
    .style("font-family", "sans-serif")
    .style("font-weight", "bold")
    .style("fill", "rgb(210, 107, 95)")
    .text('Average: ' + value);
  return d3.select("#avg-y");
}

```

```

25 .attr("y1", chart._yPixels()+ chart._heightPixels())
26 .attr("y2", chart._yPixels())
27 .attr("class","avg-y")
28 .style("stroke", "red")
29 .style("stroke-dasharray", "3");
30 svg
31 .append("text")
32   .attr("y",chart._yPixels()-5)
33   .attr("x",x_axis._scale(value)+5)
34   .attr("width",500)
35   .attr("height",30)
36   .style("font-family","sans-serif")
37   .style("font-weight","bold")
38   .style("fill","rgb(210, 107, 95)")
39   .text('Average: '+value);
40   return d3.select("#avg-y");
41 }else{
42   svg
43   .append("line")
44   .attr("y1", y_axis._scale(value))
45   .attr("y2", y_axis._scale(value))
46   .attr("x1", chart._xPixels())
47   .attr("x2", chart._xPixels() + chart._widthPixels())
48   .attr("class","avg-x")
49   .style("stroke", "red")
50   .style("stroke-dasharray", "3");
51   svg
52   .append("text")

```

REQUIRED

Same here. Currently, it looks like line 51 is inside statement started on line 42, however, this is not the ca

```

svg
.append("line")
.attr("y1", y_axis._scale(value))
.attr("y2", y_axis._scale(value))
.attr("x1", chart._xPixels())
.attr("x2", chart._xPixels() + chart._widthPixels())
.attr("class", "avg-x")
.style("stroke", "red")
.style("stroke-dasharray", "3");
svg
.append("text")
.attr("x", chart._xPixels() + chart._widthPixels() + 5)
.attr("y", y_axis._scale(value) + 5)
.attr("width", 500)
.attr("height", 30)
.style("font-family", "sans-serif")
.style("font-weight", "bold")
.style("fill", "rgb(210, 107, 95)")
.text('Average: ' + value);
return d3.select("#avg-x");

```

```

53 .attr("x",chart._xPixels()+ chart._widthPixels()+5)
54 .attr("y",y_axis._scale(value)+5)
55 .attr("width",500)
56 .attr("height",30)

```

```

57         .style("font-family", "sans-serif")
58         .style("font-weight", "bold")
59         .style("fill", "rgb(210, 107, 95)")
60         .text('Average: '+value);
61     return d3.select("#avg-x");
62 }
63
64
65 }
66 function title_slide(text,n,data){
67 //function to produce a slide given its index (n), header text (text), an
68
69     d3.select(".page-header")
70     .append("h1")
71     .attr("id", "main-title-"+n)
72     .attr("class", "title-class")
73     .text(text)
74     .style("vertical-alignment", "top")
75     .style("margin", "0px");
76     if (n == 3 || n == 4 || n == 5){

```

REQUIRED

One space missed.

```

77         //template for two plots per page
78         var svg1 = d3.select("#main-plot-"+n)
79             .style("width", $(window).width()*0.8)
80             .style("height", $(window).height()/3)
81             .style("visibility", "hidden")
82
83         var svg2 = d3.select("#split-plot-"+n)
84             .style("width", $(window).width()*0.8)
85             .style("height", $(window).height()/3)
86             .style("visibility", "hidden");-
87
88         d3.select("#plot-div-2").style("display", "");
89
90
91     }
92     else{
93         //template for one plot per page
94         var svg = d3.select("#main-plot-"+n)
95             .attr("width", $(window).width()*0.8)
96             .attr("height", $(window).height()/3)
97             .style("visibility", "hidden");
98         d3.select("#plot-div-2").style("display", "none");
99
100     }
101
102     switch(n) {
103         //typical baseball characteristics bubble chart
104         case 1:
105             var myChart = new dimple.chart(svg,data);

```

REQUIRED

Why not indented as the following code? This line in the same `case` block and should be indented too.

I wouldn't comment on every occasion further. It is very important to have consistent code formatting as in your code and fix according to this simple rules.

```

106         var x = myChart.addMeasureAxis("x", "weight");
107         x.overrideMin = d3.min(data, function(d){return d.weight});
108         x.overrideMax = d3.max(data, function(d){return d.weight});
109         var y = myChart.addMeasureAxis("y", "height");
110         y.overrideMin = d3.min(data, function(d){return d.height});
111         y.overrideMax = d3.max(data, function(d){return d.height});
112         var handedness = myChart.addCategoryAxis("color", "handedness");
113         var s1 = myChart.addSeries(["ID", "name", "handedness"], dimple.plot.scatter);
114         var leg = myChart.addLegend(10, 25, 300, 50, "right", s1);
115         myChart.draw();
116         d3.selectAll(".dimple-bubble")
117             .attr("opacity", 0.6)
118             .attr("r", 3);
119         svg.style("visibility", "visible");
120         myChart.axes[1].titleShape.text('Height (cm)').style("font-weight", "bold");
121         myChart.axes[0].titleShape.text('Weight (lbs)').style("font-weight", "bold");
122         svg.append("text").attr("x", 200).attr("y", 15).text("Handedness");
123         draw_avg_line(svg, myChart, x, y, "y", d3.format(".1f")(d3.mean(data, function(d){return d.height})));
124         draw_avg_line(svg, myChart, x, y, "x", d3.format(".1f")(d3.mean(data, function(d){return d.weight})));
125         d3.select("#load-text").style("display", "none");
126         d3.select("#continue-button").style("visibility", "visible");
127         break;
128
129     //typical baseball stats
130     case 2:
131         var myChart = new dimple.chart(svg, data);
132         var x = myChart.addMeasureAxis("x", "avg");
133         var y = myChart.addMeasureAxis("y", "HR");
134         var s1 = myChart.addSeries(["ID", "name"], dimple.plot.scatter);
135         x.overrideMin = d3.min(data, function(d){return d.avg});
136         x.overrideMax = d3.max(data, function(d){return d.avg});
137         y.overrideMin = d3.min(data, function(d){return d.HR});
138         myChart.draw();
139         d3.select("svg:not(#main-plot-1)").selectAll("svg:not(#main-plot-1)")
140             .attr("opacity", 0.6)
141             .attr("r", 3)
142             .style("fill", "rgb(37,37,37)")
143             .style("stroke", "rgb(0,0,0)");
144         svg.style("visibility", "visible");
145         myChart.axes[1].titleShape.text('# of Homeruns').style("font-weight", "bold");
146         myChart.axes[0].titleShape.text('Batting Average').style("font-weight", "bold");
147         draw_avg_line(svg, myChart, x, y, "y", d3.format(".2f")(d3.mean(data, function(d){return d.avg})));
148         draw_avg_line(svg, myChart, x, y, "x", d3.format(".1f")(d3.mean(data, function(d){return d.HR})));
149         break;
150     //stats by weight
151     case 3:
152         var myChart = new dimple.chart(svg1, data);
153
154         var x = myChart.addMeasureAxis("x", "weight");
155         var y = myChart.addMeasureAxis("y", "HR");
156         var s1 = myChart.addSeries(["ID", "name"], dimple.plot.scatter);
157         x.overrideMin = d3.min(data, function(d){return d.weight});
158         x.overrideMax = d3.max(data, function(d){return d.weight});
159         y.overrideMin = d3.min(data, function(d){return d.HR});
160         myChart.draw();

```

```

161 d3.selectAll("svg:not(#main-plot-1)").selectAll(".dimple-bubble")
162   .attr("opacity",0.6)
163   .attr("r",3)
164   .style("fill","rgb(37,37,37)")
165   .style("stroke","rgb(0,0,0)");
166 svg1.transition().delay(timer).style("visibility","visible");
167 myChart.axes[1].titleShape.transition().delay(timer).text('# of Homeruns');
168 myChart.axes[0].titleShape.transition().delay(timer).text('Weight (lbs)');
169
170 draw_avg_line(svg1,myChart,x,y,"y",d3.format(".1f")(d3.mean(data,function(d){return d.weight;})));
171 draw_avg_line(svg1,myChart,x,y,"x",d3.format(".1f")(d3.mean(data,function(d){return d.weight;})));
172
173 var myChart = new dimple.chart(svg2,data);
174 var x = myChart.addMeasureAxis("x","weight");
175 var y = myChart.addMeasureAxis("y","avg");
176 var s1 = myChart.addSeries(['ID','name'],dimple.plot.scatter);
177 x.overrideMin = d3.min(data,function(d){return d.weight});
178 x.overrideMax = d3.max(data,function(d){return d.weight});
179
180 y.overrideMin = d3.min(data,function(d){return d.avg});
181 y.overrideMax = d3.max(data,function(d){return d.avg});
182 myChart.draw();
183 d3.selectAll("svg:not(#main-plot-1)").selectAll(".dimple-bubble")
184   .attr("opacity",0.6)
185   .attr("r",3)
186   .style("fill","rgb(37,37,37)")
187   .style("stroke","rgb(0,0,0)");
188 svg2.style("visibility","visible");
189 myChart.axes[1].titleShape.text('Batting Average').style("font-size",12);
190 myChart.axes[0].titleShape.text('Weight (lbs)').style("font-size",12);
191 draw_avg_line(svg2,myChart,x,y,"y",d3.format(".1f")(d3.mean(data,function(d){return d.avg;})));
192 draw_avg_line(svg2,myChart,x,y,"x",d3.format(".2f")(d3.mean(data,function(d){return d.weight;})));
193 break;
194 //stats by height
195 case 4:
196   var myChart = new dimple.chart(svg1,data);
197   var x = myChart.addMeasureAxis("x","height");
198   var y = myChart.addMeasureAxis("y","HR");
199   var s1 = myChart.addSeries(['ID','name'],dimple.plot.scatter);
200   x.overrideMin = d3.min(data,function(d){return d.height});
201   x.overrideMax = d3.max(data,function(d){return d.height});
202
203   y.overrideMin = d3.min(data,function(d){return d.HR});
204   myChart.draw();
205 d3.selectAll("svg:not(#main-plot-1)").selectAll(".dimple-bubble")
206   .attr("opacity",0.6)
207   .attr("r",3)
208   .style("fill","rgb(37,37,37)")
209   .style("stroke","rgb(0,0,0)");
210
211 svg1.style("visibility","visible");
212 myChart.axes[1].titleShape.text('# of Homeruns').style("font-size",12);
213 myChart.axes[0].titleShape.text('Height (cm)').style("font-size",12);
214 draw_avg_line(svg1,myChart,x,y,"y",d3.format(".1f")(d3.mean(data,function(d){return d.HR;})));
215 draw_avg_line(svg1,myChart,x,y,"x",d3.format(".1f")(d3.mean(data,function(d){return d.height;})));
216 var myChart = new dimple.chart(svg2,data,"100","100%");
217 var x = myChart.addMeasureAxis("x","height");
218 var y = myChart.addMeasureAxis("y","avg");
219 var s1 = myChart.addSeries(['ID','name'],dimple.plot.scatter);
220 x.overrideMin = d3.min(data,function(d){return d.height});
221 x.overrideMax = d3.max(data,function(d){return d.height});

```

```

222
223     y.overrideMin = d3.min(data,function(d){return d.avg});
224     y.overrideMax = d3.max(data,function(d){return d.avg});
225     myChart.draw();
226 d3.selectAll("svg:not(#main-plot-1)").selectAll(".dimple-bubble")
227     .attr("opacity",0.6)
228     .attr("r",3)
229     .style("fill","rgb(37,37,37)")
230     .style("stroke","rgb(0,0,0)");
231 svg2.style("visibility","visible");
232 myChart.axes[1].titleShape.text('Batting Average').style("font-weight:bold");
233 myChart.axes[0].titleShape.text('Height (cm)').style("font-weight:bold");
234
235 draw_avg_line(svg2,myChart,x,y,"y",d3.format(".1f")(d3.mean(d
236 draw_avg_line(svg2,myChart,x,y,"x",d3.format(".2f")(d3.mean(d
237 break;
238 //stats by handedness
239 case 5:
240     var myChart = new dimple.chart(svg1,data);
241
242     var x = myChart.addCategoryAxis("x","handedness");
243

```



SUGGESTION

Why so many blank lines here?

```

244
245     var y = myChart.addMeasureAxis("y","HR");
246
247
248     var s1 = myChart.addSeries(['ID','name'],dimple.plot.scatter)
249
250     y.overrideMin = d3.min(data,function(d){return d.HR});
251
252     myChart.draw();
253 d3.selectAll("svg:not(#main-plot-1)").selectAll(".dimple-bubble")
254     .attr("opacity",0.6)
255     .attr("r",3)
256     .style("fill","rgb(37,37,37)")
257     .style("stroke","rgb(0,0,0)");
258
259     myChart.axes[1].titleShape.text('# of Homeruns').style("font-weight:bold");
260     myChart.axes[0].titleShape.text('Handedness').style("font-weight:bold");
261
262     var myChart = new dimple.chart(svg2,data);
263     var x = myChart.addCategoryAxis("x","handedness");
264
265     var y = myChart.addMeasureAxis("y","avg");
266
267     var s1 = myChart.addSeries(['ID','name'],dimple.plot.scatter)
268
269     y.overrideMin = d3.min(data,function(d){return d.avg});
270     y.overrideMax = d3.max(data,function(d){return d.avg});
271     myChart.draw();
272 d3.selectAll("svg:not(#main-plot-1)").selectAll(".dimple-bubble")
273     .attr("opacity",0.6)
274     .attr("r",3)
275     .style("fill","rgb(37,37,37)")

```

```

276         .style("stroke","rgb(0,0,0)");
277     myChart.axes[1].titleShape.text('Batting Average').style("font-weight","bold");
278     myChart.axes[0].titleShape.text('Handedness').style("font-weight","bold");
279
280     break;
281     //conclusion slide
282     }
283 };

```

REQUIRED

Those braces should have the same indent as the opening statement to allow the reader to easily identify

```

284     function get_header(i){
285         var heading = "";
286         switch (i) {
287
288             case 1:
289
290                 heading = "Question 1: \n What does the typical baseball player do?";
291                 break;
292             case 2:
293
294                 heading = "Question 2: \n What do typical baseball player do?";
295                 break;
296             case 3:
297
298                 heading = "Question 3: \n How do baseball player statistics change over time?";
299                 break;
300             case 4:
301
302                 heading = "Question 4: \n How do baseball player statistics change over time?";
303                 break;
304             case 5:
305
306                 heading = "Question 5: \n How do baseball player statistics change over time?";
307                 break;
308             case 6:
309                 heading = "My Findings";
310                 break;
311         }
312         return heading;
313     }
314 }
315 function goto_slide(slide_cnt) {
316     //function to go to a specific slide
317     d3.selectAll("svg").style("display","none");
318     if (slide_cnt != 6){
319         $("#main-plot-"+slide_cnt).attr("style","height:"+height/3+"px; width:"+width/3+"px;");
320         $("#split-plot-"+slide_cnt).attr("style","height:"+height/3+"px; width:"+width/3+"px;");
321     }else{
322         d3.select("dl").style("display","");
323     }
324 }
325 function draw(data) {
326     //function to create and loop through data-driven slides
327     slide_cnt = 0;
328     $('#continue-button').on('click',function(){
329         slide_cnt += 1;

```



```

330     $(".nav").find("ul :nth-child(+"slide_cnt+")").removeClass("disab
331 if (slide_cnt < 6){
332     d3.selectAll(".title-class").style("display","none");
333     d3.select("#main-title-"+slide_cnt).style("display","");
334
335     goto_slide(slide_cnt);
336
337 }else{
338     d3.selectAll(".title-class").style("display","none");
339     d3.select(".page-header")
340         .append("h1")
341         .attr("id","main-title-"+slide_cnt)
342         .attr("class","title-class")
343         .text(get_header(slide_cnt))
344         .style("vertical-alignment","top")
345         .style("margin","0px");
346
347     d3.selectAll("svg").style("display","none");
348     d3.select("#continue-button").style("display","none");
349     d3.select("dl").style("display","");
350     timer += 500;
351     d3.select("#dt1").transition().delay(timer).style("visibility
352     timer += 500;
353     d3.select("#dd1").transition().delay(timer).style("visibility
354     timer +=1500;
355     d3.select("#dt2").transition().delay(timer).style("visibility
356     timer += 500;
357     d3.select("#dd2").transition().delay(timer).style("visibility
358     timer +=1500;
359     d3.select("#dt3").transition().delay(timer).style("visibility
360     timer += 500;
361     d3.select("#dd3").transition().delay(timer).style("visibility
362     timer += 1000;
363     d3.select("#dt4").transition().delay(timer).style("visibility
364 }
365     });
366 $(".nav li").bind('click',function(){
367     if (! $(this).hasClass("disabled")){
368
369
370     slide_cnt = $(".nav li").index(this)+1
371     $(this).addClass("active");
372     d3.selectAll(".title-class").style("display","none");
373     d3.select("#main-title-"+slide_cnt).style("display","");
374     d3.select("dl").style("display","none");
375     d3.select("#dt4").style("display","none");
376     goto_slide(slide_cnt);
377     }
378 })

```



SUGGESTION

Semicolon missed. It is considered a good practice to always use semicolons in javascript.

```

379     for (i=0;i<6;i++){
380         var var_svg = dimple.newSvg("#plot-div","100%","100%");
381         var_svg.attr("id","main-plot-"+i);
382         var var_svg = dimple.newSvg("#plot-div-2","100%","100%");
383         var_svg.attr("id","split-plot-"+i);

```

```

384         title_slide(get_header(i),i,data);
385     };
386     d3.selectAll("svg").style("display","none");
387     d3.selectAll(".title-class:not(#main-title)").style("display","none")
388 }
389 </script>
390 </head>
391 <body>
392     <div class="container" style="margin:0px">
393         <div class="row">
394             <nav class="nav navbar-default" style="margin-bottom:2%" >
395                 <div class="navbar-header">
396                     <a class="navbar-brand" href="#">Slide Navigation:</a>
397                 </div>
398                 <ul class="nav navbar-nav">
399                     <li class="disabled"><a href="#">Physical Player Characteristics</a>
400                     <li class="disabled"><a href="#">Baseball Statistics</a></li>
401                     <li class="disabled"><a href="#">Performance vs Weight</a></li>
402                     <li class="disabled"><a href="#">Performance vs Height</a></li>
403                     <li class="disabled"><a href="#">Performance vs Handedness</a></li>
404                     <li class="disabled"><a href="#">Findings</a></li>
405                 </ul>
406             </nav>
407         </div>
408         <div class="row">
409             <div class="col-sm-offset-1 col-md-offset-1 col-lg-offset-1 col-sm-8 col-
410                 <h1 class="title-class" id="main-title" style="margin:0px;">Do any phy
411             </div>
412             <div class="col-sm-3 col-lg-3 col-md-3">
413                 <h3 id="load-text">Loading...Please Wait.</h3>
414                 <button type="button" class="btn btn-primary btn-lg" style="visib
415             </div>
416         </div>
417     </div>
418     <div class="row">
419         <div class="col-md-11 col-lg-11 col-sm-11 col-sm-offset-1 col-md-offs
420             <dl class="dl-horizontal h3" style="display:none;">
421                 <dt class="col-sm-3" id="dt1" style="visibility:hidden;width:
422                 <dd class="col-sm-6" id="dd1" style="visibility:hidden;text-a
423                 <dt class="col-sm-3" id="dt2" style="visibility:hidden;width:
424                 <dd class="col-sm-6" id="dd2" style="visibility:hidden;text-a
425
426                 <dt class="col-sm-3" id="dt3" style="visibility:hidden;width:
427                 <dd class="col-sm-6" id="dd3" style="visibility:hidden;text-a
428
429             </dl>
430
431             </div>
432         </div>
433     </div>
434     <div class="row">
435         <h3 id="dt4" class="col-sm-offset-1 col-md-offset-1 col-lg-offset
436         <div class="col-sm-offset-1 col-lg-offset-1 col-md-offset-1 col-md-11
437         </div>
438     </div>
439 </div>
440 <script type="text/javascript">
441
442
443     d3.csv('data/baseball_data_indexed.csv',draw);
444 </script>

```

```
445     </body>
446
447 </html>
448
```



- ▶ README.md
- ▶ js/dimple.min.js
- ▶ js/d3.min.js
- ▶ js/bootstrap.min.js
- ▶ js/bootstrap.js
- ▶ index_3.html
- ▶ index_2.html
- ▶ index_1.html
- ▶ css/styles.css
- ▶ css/bootstrap.min.css
- ▶ css/bootstrap.css
- ▶ css/bootstrap-theme.min.css
- ▶ css/bootstrap-theme.css

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