**[S Streisand](https://plus.google.com/117771238554345892990)**

Discussion  -  [Jul 7, 2015](https://plus.google.com/117771238554345892990/posts/ifm6kk1GcbE)

Hi!  I'm working on P5, Data Visualization, and one of the key components is feedback.  However, I seem to be locked out of the udacity forums!  (Keep getting 502 Bad Gateway error and then they fix it temporarily and it gets bad again!)  So I'm going to share my rudimentary data visualization here.  <http://bl.ocks.org/sstreisand/85ab9c34324ea92fb185>  
  
I have lots of ideas, but had to pare it back to something simple first that actually worked.  I was thinking about mapping it in a choropleth.  I'm still not sure what I want to show.  Maybe order by # of schools instead of alphabetically by state.  
  
The full feedback questions, when I am ready for them are:  
What do you notice in the visualization?  
What questions do you have about the data?  
What relationships do you notice?  
What do you think is the main takeaway from this visualization?  
Is there something you don’t understand in the graphic?﻿

[Data Visualization Final Project](http://bl.ocks.org/sstreisand/85ab9c34324ea92fb185)

[bl.ocks.org](http://bl.ocks.org/sstreisand/85ab9c34324ea92fb185)

sstreisand's block #85ab9c34324ea92fb185 July 7, 2015. Data Visualization Final Project. Open in a new window. sstreisand's block #85ab9c34324ea92fb185 July 7, 2015.

**2**

Grace Pehl's profile photoS Streisand's profile photoDaniel Amador's profile photoFrancis Corrigan's profile photo

10 comments

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[**Francis Corrigan**](https://plus.google.com/102342556613648180071)

Jul 7, 2015

Nice start! I love the basic steel blue d3 bar chart. It's simple and beautiful. Maybe it's because I'm on mobile, but I can't see the x labels (states)... I need to tap each bar to see the data. I would include the labels. Also, I would sort the data by state in descending order so instantly I can tell which states are highest, which are lowest, and which are in the middle.   
  
Second observation is that I would be more interested in per capita data.... Perhaps something like 4 year degrees per square foot. Since CA and TX are huge states (by land mass) I would expect them to have more universities. However, if you did it by universities per square foot i would expect Massachusetts to be close to the top. Or maybe... Universities per capita would show something really cool? Either way, I think it adds a dimension to your graph.  
  
Lastly, I saw your comment about making a map. Do it! Even if you don't use it, I found that I've learned a lot about d3 and JavaScript in general by grinding through the process of creating a map. Good luck and please share your visualization when it is complete!﻿

[https://lh3.googleusercontent.com/uFp_tsTJboUY7kue5XAsGA=s28](https://plus.google.com/117771238554345892990)

[**S Streisand**](https://plus.google.com/117771238554345892990)

Jul 7, 2015

+[**Francis Corrigan**](https://plus.google.com/102342556613648180071)  
Francis, Thanks for your feedback.  To see the labels you have to click on the link below it to open in new window.    
  
I was thinking about per capita if I keep it with what I have now.  Will look into that, thanks for the tip. I want to try the map and maybe now that I have something down I will.  What got me stuck was that I wanted to allow the user to select from different statistics (I have admissions rates, SAT/ACT scores, tuition, institution size).  I hope to get that to work  
  
Thanks!﻿

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[**Sergey Mushinskiy**](https://plus.google.com/105553262575515801339)

Jul 8, 2015

I agree with +[**Francis Corrigan**](https://plus.google.com/102342556613648180071) suggestions. When charting population-related data it often may be helpful to use "per capita" metrics to take population differences into account. You may use # of schlools per million people.  
Another thing you can do -- include some more interesting info. For example, in your data there are religion/category divisions -- you can show this data by making staked bar-chart and/or include some (or most) of this information in popup. ﻿

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[**Fede Todeschini**](https://plus.google.com/115257782270310840176)

Jul 8, 2015

Nice visualization! Maybe you could add a bottom such that you could switch from absolute to per capita, so that people that are interested in having the absolute value could also have it. Also, the title of the y axis should be horizontal. Visually is much more simple because that way you don't have to turn your head. A last thing I would recommend is to remove the ticks from the horizontal axis. Keep up the good work!﻿

[https://lh3.googleusercontent.com/uFp_tsTJboUY7kue5XAsGA=s28](https://plus.google.com/116320865563858295799)

[**Grace Pehl**](https://plus.google.com/116320865563858295799)

Jul 8, 2015

This is really nice looking graph, but after scrolling the mouse, I found myself thinking "so what".  You could use this graph to tell a story about access to 4-year college.  Group the states by region and superimpose a line of population by state.   The x-axis labels are cluttered and can't be seen without opening it in a separate window.  Try using the 2 letter state abbreviations and see if that cleans things up.﻿

[https://lh3.googleusercontent.com/uFp_tsTJboUY7kue5XAsGA=s28](https://plus.google.com/117771238554345892990)

[**S Streisand**](https://plus.google.com/117771238554345892990)

Jul 9, 2015

+[**Sergey Mushinskiy**](https://plus.google.com/105553262575515801339) Thank you for your comments.  I am trying to figure out how to add state population to my visualization - I will have to join it with the rolled up data and want to be able to switch datasets.  It is a work in progress and thanks for the ideas!﻿

[https://lh3.googleusercontent.com/uFp_tsTJboUY7kue5XAsGA=s28](https://plus.google.com/117771238554345892990)

[**S Streisand**](https://plus.google.com/117771238554345892990)

Jul 9, 2015

+**[Fede Todeschini](https://plus.google.com/115257782270310840176)** Thanks for your comments.  A button to switch is an interesting idea.﻿

[https://lh3.googleusercontent.com/uFp_tsTJboUY7kue5XAsGA=s28](https://plus.google.com/117771238554345892990)

[**S Streisand**](https://plus.google.com/117771238554345892990)

Jul 9, 2015

+[**Grace Pehl**](https://plus.google.com/116320865563858295799) Thanks for your suggestions Grace.  I am still looking for a story to tell - grouping by region is a good idea.  I've noticed in others work that you can't read the x labels without opening it in a new window and I think that might be due to the bl.ocks framework, but I could try mapping the data to 2-letter state abbreviations as I get the hang of javascript and d3.  ﻿

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[**Daniel Amador**](https://plus.google.com/117936272210534567679)

Jul 28, 2015

Just pulled it up on my tablet, looks good, can't wait to learn d3﻿

[https://lh3.googleusercontent.com/-iI7CDtH4dIc/AAAAAAAAAAI/AAAAAAAAAaw/FVREgpt92QQ/s28-c-k-no/photo.jpg](https://plus.google.com/102342556613648180071)

[**Francis Corrigan**](https://plus.google.com/102342556613648180071)

Jul 28, 2015

 1

Reply

Nice improvement since first iteration!﻿

Second set of feedback from <https://discussions.udacity.com/t/requesting-help-and-feedback-on-my-project/27306/5>

# [Requesting help and feedback on my project](https://discussions.udacity.com/t/requesting-help-and-feedback-on-my-project/27306)

[**DAND P6 | Data Visualization with D3.js**](https://discussions.udacity.com/c/nd002-p6-data-visualization-with-d3-js)[**Sharing and Feedback**](https://discussions.udacity.com/c/nd002-p6-data-visualization-with-d3-js/sharing-and-feedback)

# [Requesting help and feedback on my project](https://discussions.udacity.com/t/requesting-help-and-feedback-on-my-project/27306)

[**DAND P6 | Data Visualization with D3.js**](https://discussions.udacity.com/c/nd002-p6-data-visualization-with-d3-js)[**Sharing and Feedback**](https://discussions.udacity.com/c/nd002-p6-data-visualization-with-d3-js/sharing-and-feedback)

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[**susan\_181007164**](https://discussions.udacity.com/users/susan_181007164)

[18d](https://discussions.udacity.com/t/requesting-help-and-feedback-on-my-project/27306?u=susan_181007164)

I had posted my original project attempt a few weeks ago on Google+. I've spent a lot of time playing around with different things and have an update taking into account some feedback.

It is [http://bl.ocks.org/sstreisand/raw/968d2752a1c0b1ce6dde/5](http://bl.ocks.org/sstreisand/raw/968d2752a1c0b1ce6dde/) - I still need to add documentation/story.  
It shows the number of 4-year degree-granting institutions per state and sorts by that number.  
Then you can select to graph the states by population (and sort) or by number of institutions per x of population. California has the largest population, but New York has the most schools and surprisingly Vermont has the most schools per 100,000 of population

I have to figure out why my onchange is not working when I select different radio buttons, only when I click the sort box. I'm sure it's simple, but I wanted to display something. It seems everytime I try to fix something I wind up breaking the whole thing. I also need to figure out why it always loads the onchange when it starts.

I also want to learn how to make the dotted lines in the tooltips and dynamically size the tooltips box for larger state names when needed.  
I went on a sidetrack, trying to follow Nikolay's scatterplot where I have separate points for each school in a state and plot their statistics, but I did something so that it no longer worked and it seemed like overkill, but I could add something like that at the end (the martini glass) possibly. I think a choropleth would look well with this data but I could only find a good US map with topoJson not geoJson.

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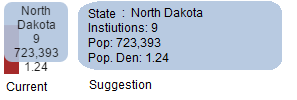
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[18d](https://discussions.udacity.com/t/requesting-help-and-feedback-on-my-project/27306/2?u=susan_181007164)

Hi Susan,

I am no d3 expert :), still learning....but my 2 cents regarding the tooltips are as follows:

1. I suggest keep the tooltip size constant, making the width as long as the longest state name i.e.'District of Columbia' and adjusting height that could include 4 rows (state, Institutes, Pop. and Pop. density).
2. Add Keys before values for ease of understanding (image attached as a suggestion).



Other than that, your project looks good to me and I like the way transition takes place when sorting is checked.

Good Luck!

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[18d](https://discussions.udacity.com/t/requesting-help-and-feedback-on-my-project/27306/3?u=susan_181007164)

Thanks for the suggestion: Guess it makes it more understandable.

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[17d](https://discussions.udacity.com/t/requesting-help-and-feedback-on-my-project/27306/4?u=susan_181007164)

I like it! Other than the issues you mentioned, my only comment is that the vertical label on the y-axis that's just inside the plot area will overlap with the first bar. Perhaps you could move the label outside the plot area?

If you figure out how to dynamically size the popup boxes to fit text, please let me know! 

And I completely sympathize with you on "It seems everytime I try to fix something I wind up breaking the whole thing." I know the frustration!

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[17d](https://discussions.udacity.com/t/requesting-help-and-feedback-on-my-project/27306/5?u=susan_181007164)

Thanks for the comments. I did move the y-axis label in a different iteration that I never published, I need to find the code and incorporate it. I took the suggestion to make the pop-up box as big as the biggest name, since that seemed easier than dynamically sizing - will have to see how that looks. I didn't get a chance to publish my updated code yet. I wound up spending my limited time last night trying to do a choropleth - I get easily distracted from completing my given task.  
I guess a general approach to a dynamic tooltip sizing would be to move the style from a separate style section to an attribute of the svg that is dynamically generated for each tooltip.

Something like the code here

div .html(d.key + "<br/>" + d.values + "<br/>" + d3.format(",")(d.pop) + "<br/>" + d3.format(".3g")(d.colPop))

.style("left", (d3.event.pageX) + "px")

.style("top", (d3.event.pageY - 28) + "px"); })

I would add

div .tooltip.style("height", <?>)

but I don't know how to determine whether there would be line breaks in the above text - it's not as easy as finding the length of the text because I think it only breaks at spaces/etc. So I just gave up

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