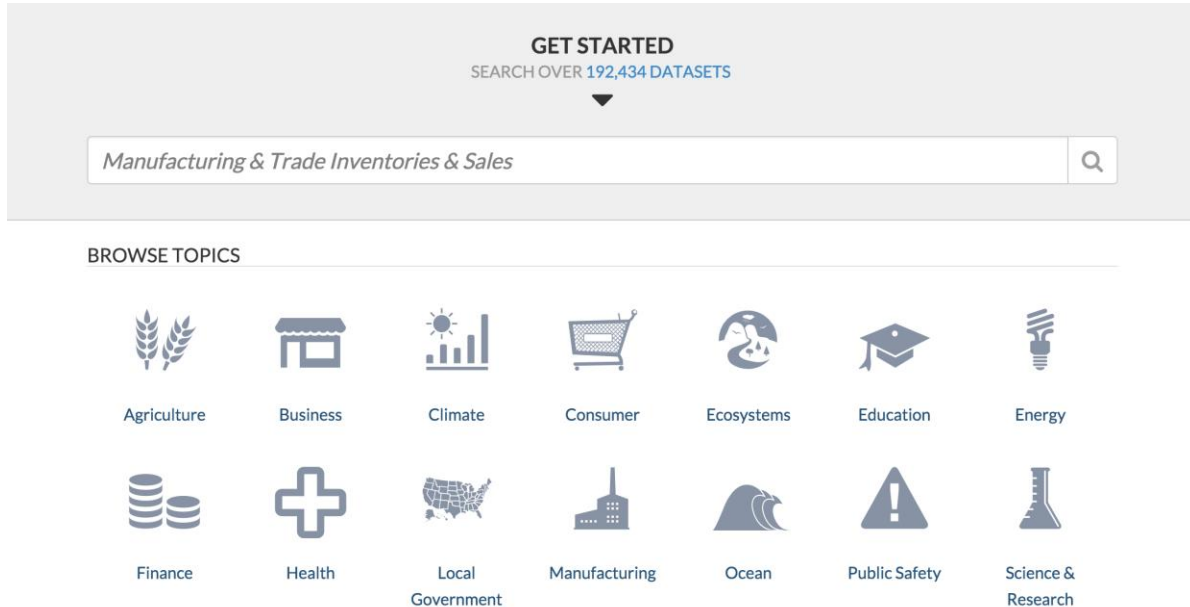


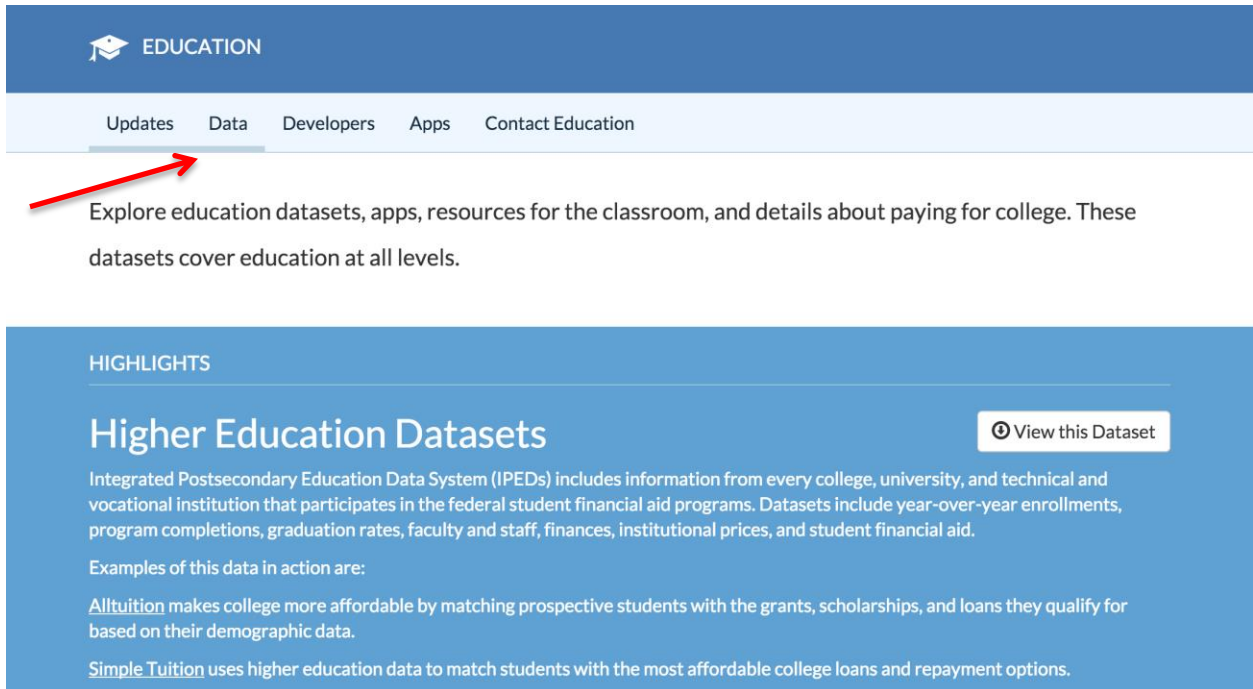
### *Storytelling with geospatial data visualization and maps*

In the 3<sup>rd</sup> project, you are expected to work as a team to “tell a story” using geospatial data and more. Please follow the instructions below:

- (1) Go to <http://www.data.gov/> choose a topic (shown in the screenshot below)



- (2) Once you choose a topic, you will a general description about this topic and some highlights, most of the highlights are currently hot topics or issues that are of great concerns by the public or government; discuss with your teammates on what kind of story you want to tell with graphics, make sure that you also consult the available datasets. For example, if you choose “Education”, to find a list of available datasets: click “Data” (shown in the screenshot below).



**EDUCATION**

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Explore education datasets, apps, resources for the classroom, and details about paying for college. These datasets cover education at all levels.

### HIGHLIGHTS

## Higher Education Datasets

[View this Dataset](#)

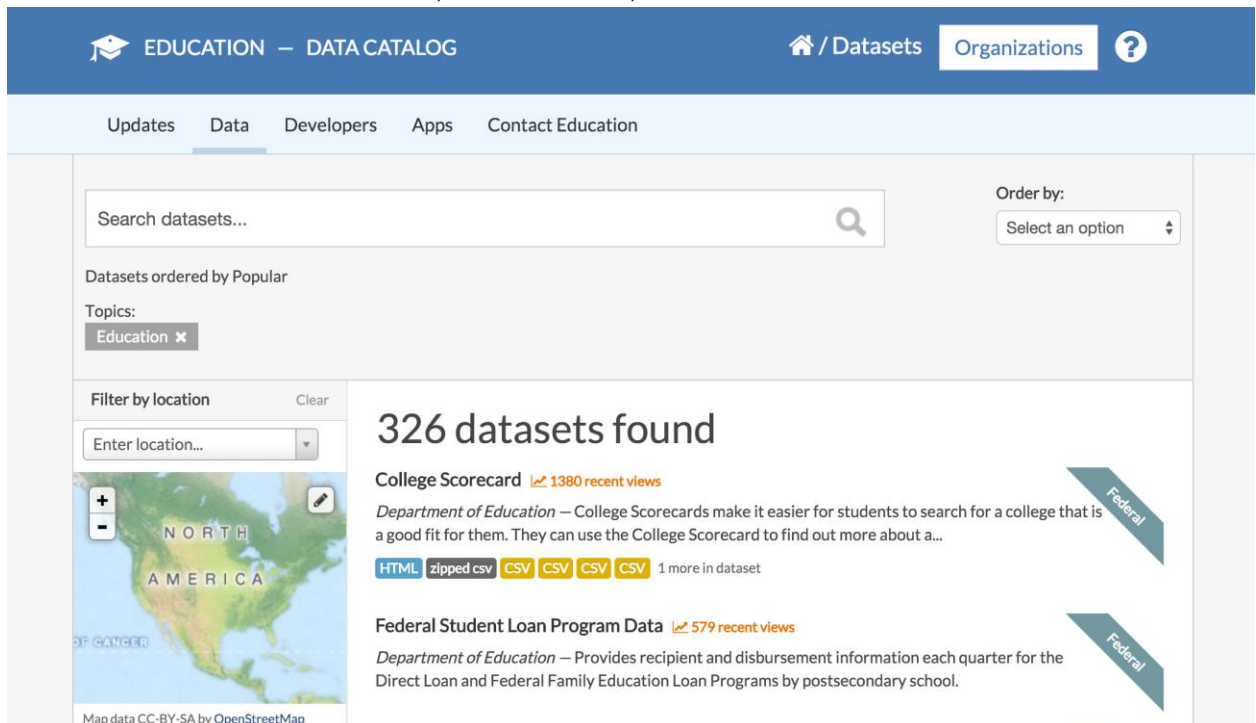
Integrated Postsecondary Education Data System (IPEDs) includes information from every college, university, and technical and vocational institution that participates in the federal student financial aid programs. Datasets include year-over-year enrollments, program completions, graduation rates, faculty and staff, finances, institutional prices, and student financial aid.

Examples of this data in action are:

[Alltuition](#) makes college more affordable by matching prospective students with the grants, scholarships, and loans they qualify for based on their demographic data.

[Simple Tuition](#) uses higher education data to match students with the most affordable college loans and repayment options.

(3) Now you will see a long list of data that is related to the topic you chose, here it is related to Education (shown below).



**EDUCATION — DATA CATALOG** [/ Datasets](#) [Organizations](#) [?](#)

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Search datasets...

Order by: [Select an option](#)

Datasets ordered by Popular

Topics: [Education](#)

Filter by location: [Clear](#)

Enter location...

**326 datasets found**

**College Scorecard** [1380 recent views](#)

Department of Education — College Scorecards make it easier for students to search for a college that is a good fit for them. They can use the College Scorecard to find out more about a...

[HTML](#) [zipped csv](#) [CSV](#) [CSV](#) [CSV](#) [CSV](#) 1 more in dataset

**Federal Student Loan Program Data** [579 recent views](#)

Department of Education — Provides recipient and disbursement information each quarter for the Direct Loan and Federal Family Education Loan Programs by postsecondary school.

Map data CC-BY-SA by [OpenStreetMap](#)

(4) On the left you will see a lot of filters to further narrow down the lists. Continue with the “Education” example, now I see that there are 10 datasets that are

related to “safety”, if this is the story you want to tell, now you have a smaller list of data to work on.

The screenshot shows a data catalog interface. On the left is a sidebar with filters. Under 'Topics', 'Education (326)' is selected, and 'Safety (10)' is highlighted with a red box. Below 'Topics' are 'Topic Categories' and 'Dataset Type'. The main panel displays a list of datasets. The first dataset is 'Department of Education – Teacher Shortage Areas 2015-16 (TSA 2015-16)', which is a 'microsoft word document' (PDF). The second is 'Campus Safety and Security Survey, 2013' (327 recent views), a 'Department of Education' dataset, available in 'zipped xls', 'zipped xls', 'zipped sav', and 'zipped sas7bdat' formats. The third is 'My Brother's Keeper Key Statistical Indicators on Boys and Men of Color' (238 recent views), a 'Department of Education' dataset, available in 'microsoft excel', 'CSV', 'microsoft excel', 'CSV', 'microsoft excel', and 'CSV' formats. The fourth is 'American Community Survey' (219 recent views), a 'Department of Commerce' dataset, available in 'HTML' format. The fifth is '2013-14 Integrated Postsecondary Education Data System' (204 recent views), a 'Department of Education' dataset, available in 'HTML', 'HTML', and 'HTML' formats. Each dataset entry has a 'Federal' label on the right.

- (5) The following features/items must be included in your “storytelling”:
- Maps with geospatial data from difference sources or with different formats (etc. satellite images, station observations, radar observations, survey etc., in terms of formats: shapefiles, excels (.csv), html, text files etc.)
  - Include at least one of the two: Trellis plots, Circos plots;

Note: In this project, the focus is storytelling with visualization; you can organize, summarize or analyze your data using any methods to support your storytelling. PDF submission or HTML submission with interactive plots are both acceptable. The submission will follow the same procedure as you did for the first two projects.

You can go to [www.forbes.com](http://www.forbes.com) [www.nytimes.com](http://www.nytimes.com) and <http://www.census.gov/data.html> to get some ideas. They have put up quite some interesting stories using data visualization.

**Most importantly, have fun! Don't hesitate to be unconventionally creative.**