College Navigator

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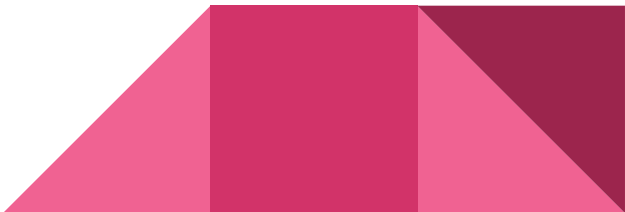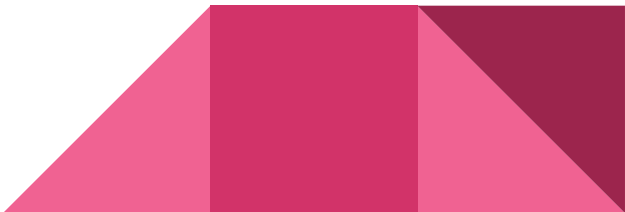
Introduction - College Navigator

Our team created an interactive map of accredited United States' colleges and universities. The website features interactive capabilities that allows users to utilize multiple drop down menus to filter selected search criteria. Users are able make a refined search of the different institutions based upon:

1. State or US region
2. School type (public, private non-profit, private for profit, graduate schools)
3. Major or academic field of interest
4. Population Size
5. Class size (if available)
6. Campus size
7. Campus setting (urban, suburban, rural)
8. Application number and acceptance rate
9. Academic ranking (for top 650 schools only)
10. Sports conference or sporting division available at that school (basketball + football)
11. Tuition cost

Data Visualization Inspiration - College Navigator

Goals:

- Allow the user to easily visualize the location of colleges and universities that meet the selected search criteria.
- Users are able to perform multiple searches using this application
  - Avoids the user having to visit several websites to gather information - one-stop shop
- Create an application that can be used by several different stakeholders
  - Prospective Students
  - Parents/Guardians of Prospective Students
  - Guidance Counselors
  - Any other interested parties

Data Visualization Inspiration - College Navigator

Aspirational Goals:

- Expand the search criteria to include other factors that may be of interest to users
- Other search criteria that could be added:
    - Crime rate on and off campus
    - Diversity of study body and faculty
    - Accessibility of campus for disabled students
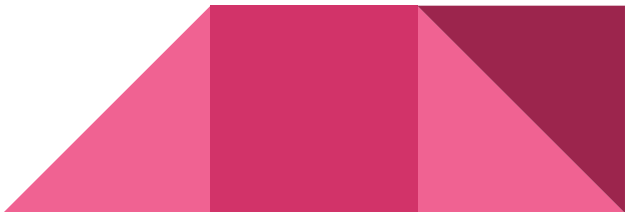
Data Cleanup and Exploration - College Navigator

Data Search & Data Sources

- Kaggle
- US Homeland
- Web-scraping

Data Clean-up

- Removal of unwanted information
- Merging of data
- Use of Mongo

Coding Approach - College Navigator

Javascript/Leaflet

- Map creation
- Creation of markers
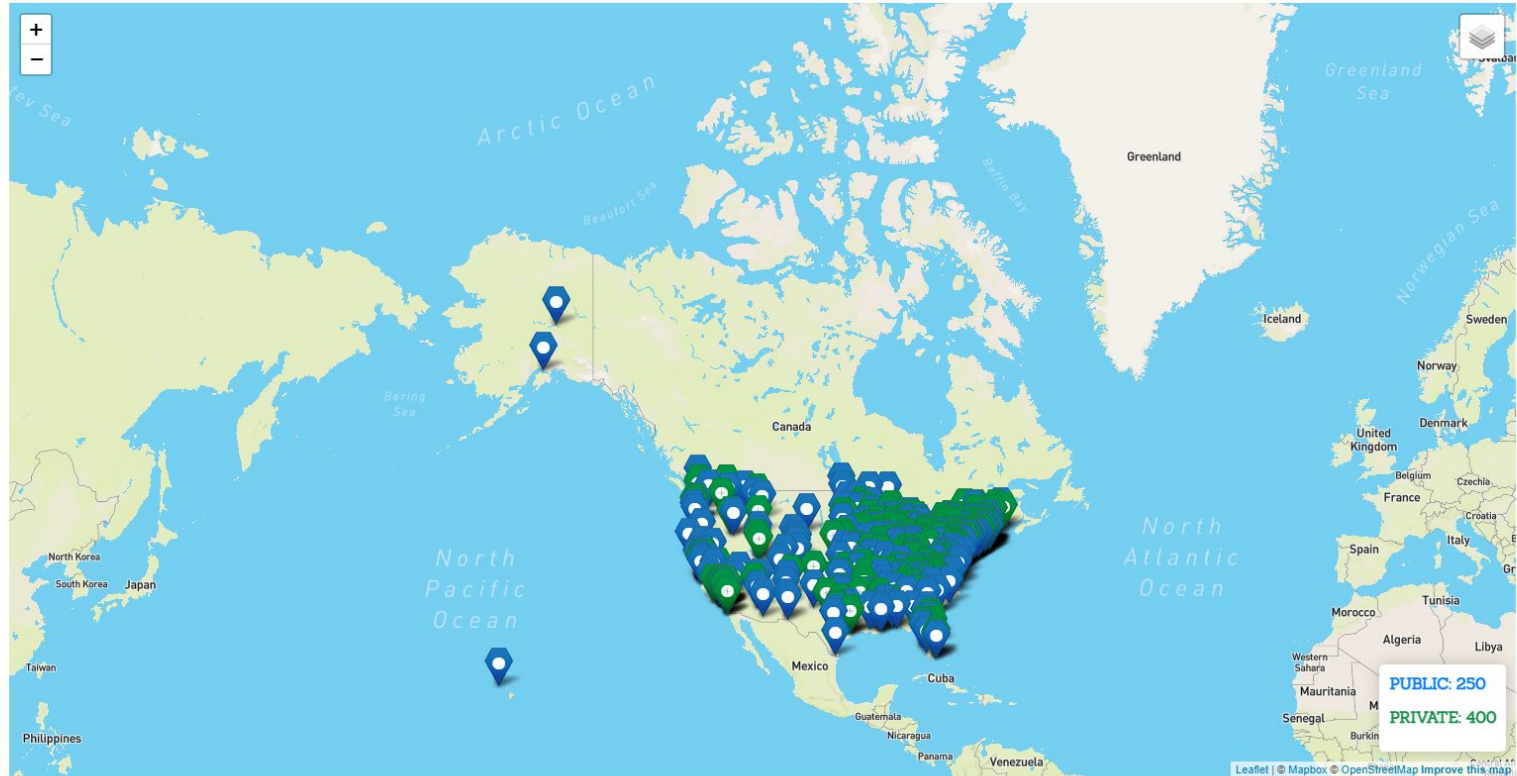- Different categories for filter

HTML

- Dropdown Menu
- Graph implementation

Website

Type ▾   State ▾   Rank ▾   Filter Table

PUBLIC: 250
PRIVATE: 400

Leaflet | © Mapbox © OpenStreetMap Improve this map

Demonstration Time!