



Top Universities in the U.S.

Group 4

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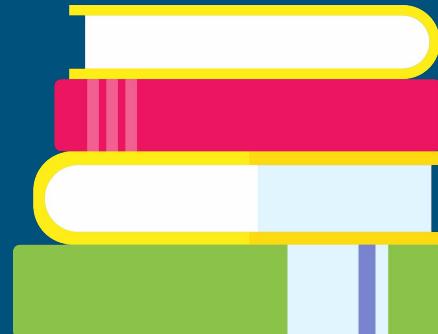
Madeline Vicuna



What puts a university in the U.S. at the “Top”

We all know that the top universities in our country have high achieving students with even higher IQ's and GPAs, but what else comes into play for each specific institution? Is the allure for students being one of few able to attend, the notoriety and names that have built over generations, or something else?

This is the question we asked ourselves.



Our Steps to Success

- Combine two CSV files
- SQL Database
- Flask API of data to pull data from
- Use JavaScript
 - Make maps with Plotly
 - Make charts with chart.js
- Combine everything into one HTML/CSS



Top 10 Universities

#1 Princeton University



Location: Princeton, New Jersey

Year Established: 1746

Fun Fact: In 1783, Nassau Hall once served as the nation's capital for four months and eight days.

#2 Harvard University



Location: Cambridge, Massachusetts

Year Established: 1636

Fun Fact: There have been 161 Nobel Laureates, 23 heads of state, and 132 Pulitzer Prize winners.

Top 10 Universities

#3 University of Chicago



Location: Chicago, Illinois

Year Established: 1890

Fun Fact: The Mansueto Library can hold 3.5 million volumes, and appeared in the filming of "Divergent."

#3 Yale University



Location: New Haven, Connecticut

Year Established: 1701

Fun Fact: Yale's Beinecke Rare Books and Manuscripts Library will deploy a lethal gas and a cube that deprives the air of oxygen in case of a fire.

Top 10 Universities

5 Columbia University



Location: New York, NY

Year Established: 1754

Fun Fact: Columbia's motto is "In Lumine Tuo Videbimus Lumen" Which means "In thy light shall we see light."

#5 Stanford University



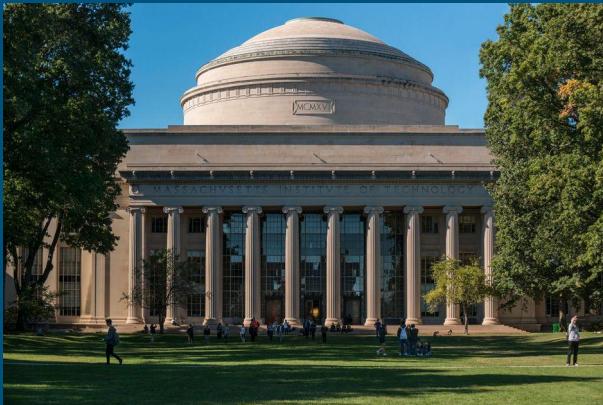
Location: Stanford, CA

Year Established: 1891

Fun Fact: Since 1952, more than 54 Stanford Faculty, staff, and alums have been awarded the Nobel Prize.

Top 10 Universities

7 Massachusetts Institute of Technology



Location: Cambridge, MA

Year Established: 1861

Fun Fact: MIT's mascot is a beaver because it is considered nature's engineer.

#8 Duke University



Location: Durham, NC

Year Established: 1924

Fun Fact: The university is named after the father of the tobacco industry, James B. Duke.

Top 10 Universities

8 University of Pennsylvania



Location: Philadelphia, PA

Year Established: 1740

Fun Fact: Benjamin Franklin wrote a paper called "Proposals Relating to the Education of Youth" which gained 24 trustees to form the institution.

#10 Johns Hopkins University



Location: Baltimore, MD

Year Established: 1876

Fun Fact: Johns Hopkins was a Quaker, fell out of favor with them for selling whiskey, known as "Hopkins Best"

What Data Are We Focusing On

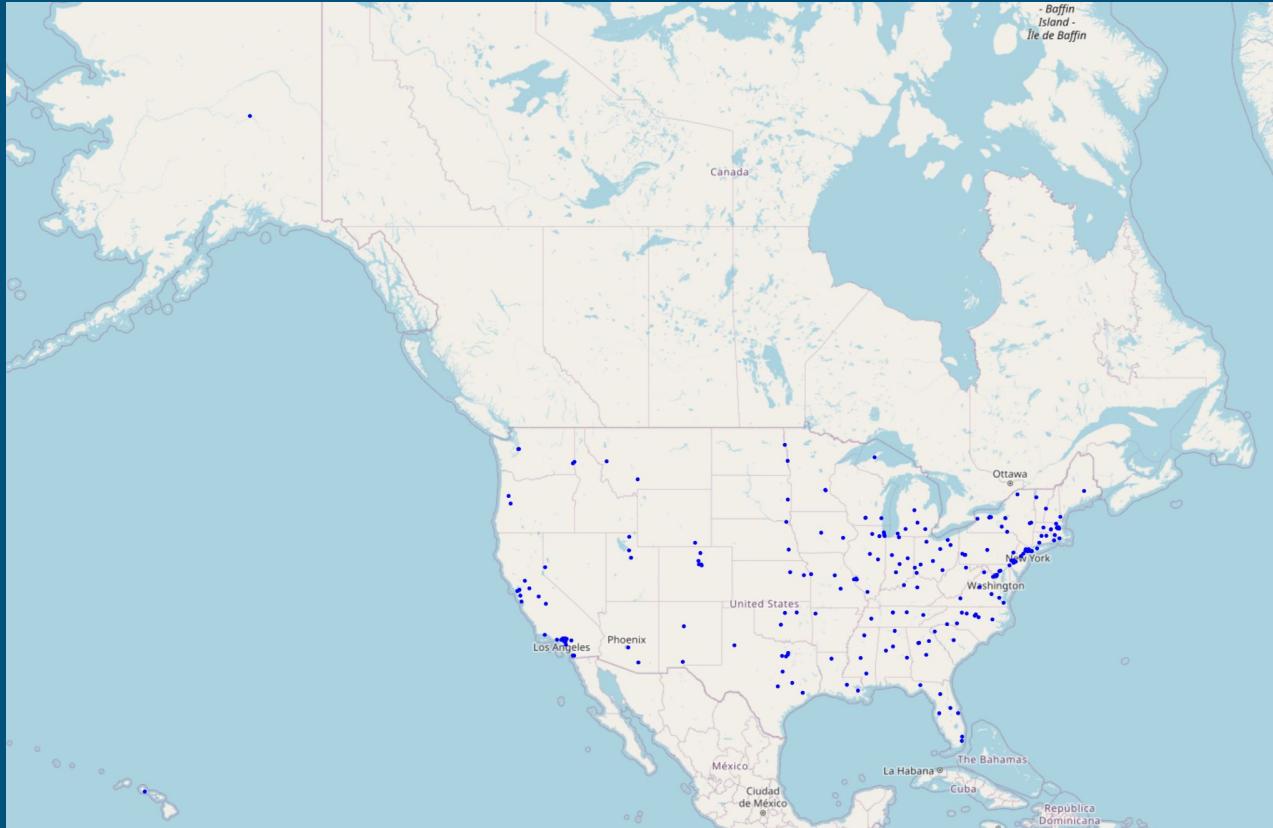


- The Top 10 Ranking Universities
 - The Number of Students Attending
 - The Year of Establishment
 - Tuition and Fees
-

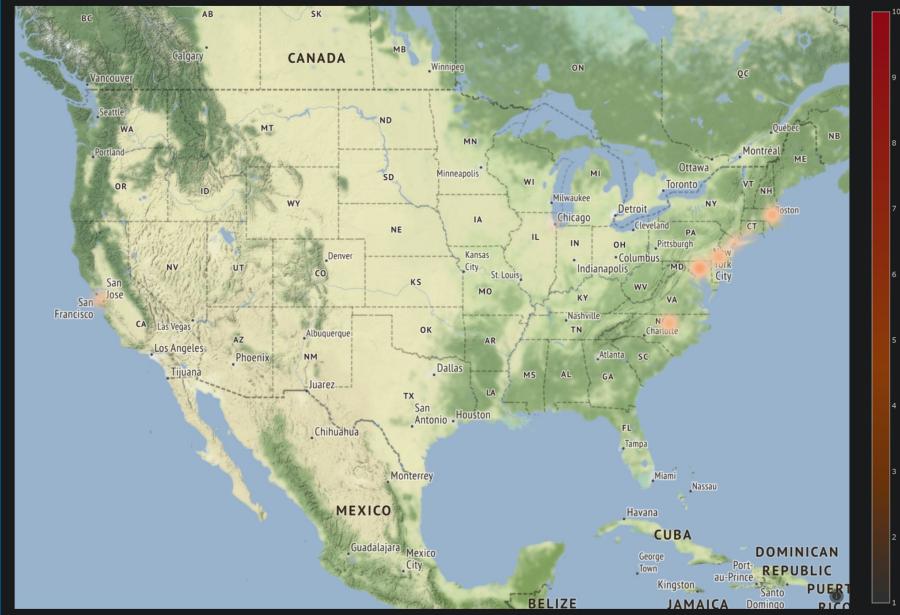
What conclusions
have been made
based on our
analysis...



Where in the World...?

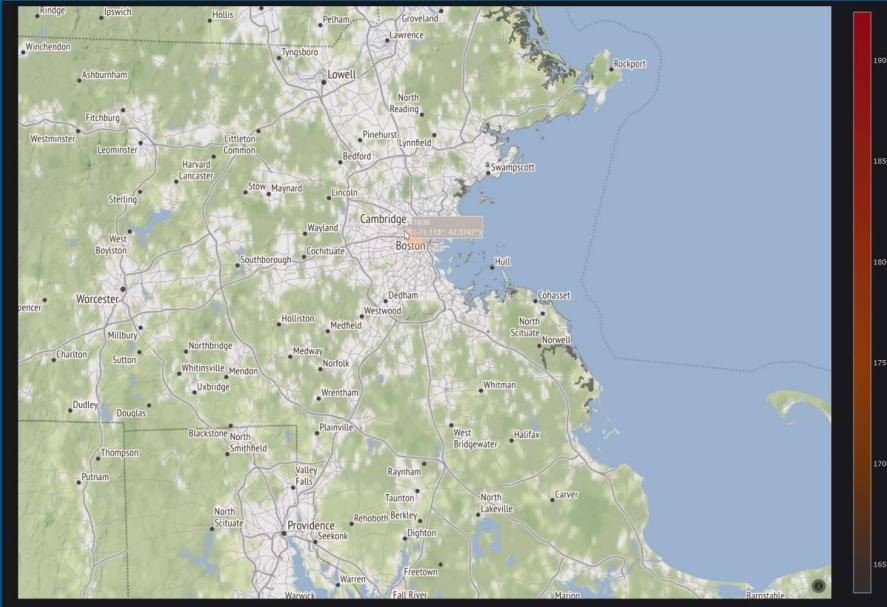


Top 10: Locations



1. Princeton: Princeton, NJ
 2. Harvard: Cambridge, MA
 3. (tied) Univ. of Chicago: Chicago, IL
 3. (tied) Yale University: Newhaven, CT
 5. (tied) Columbia: New York, NY
 5. (tied) Stanford: Stanford, CA
 7. M.I.T.: Cambridge, MA
 8. (tied) Duke: Durham, NC
 8. (tied) Univ. of Pennsylvania:
Philadelphia, PA
 10. Johns Hopkins: Baltimore, MD

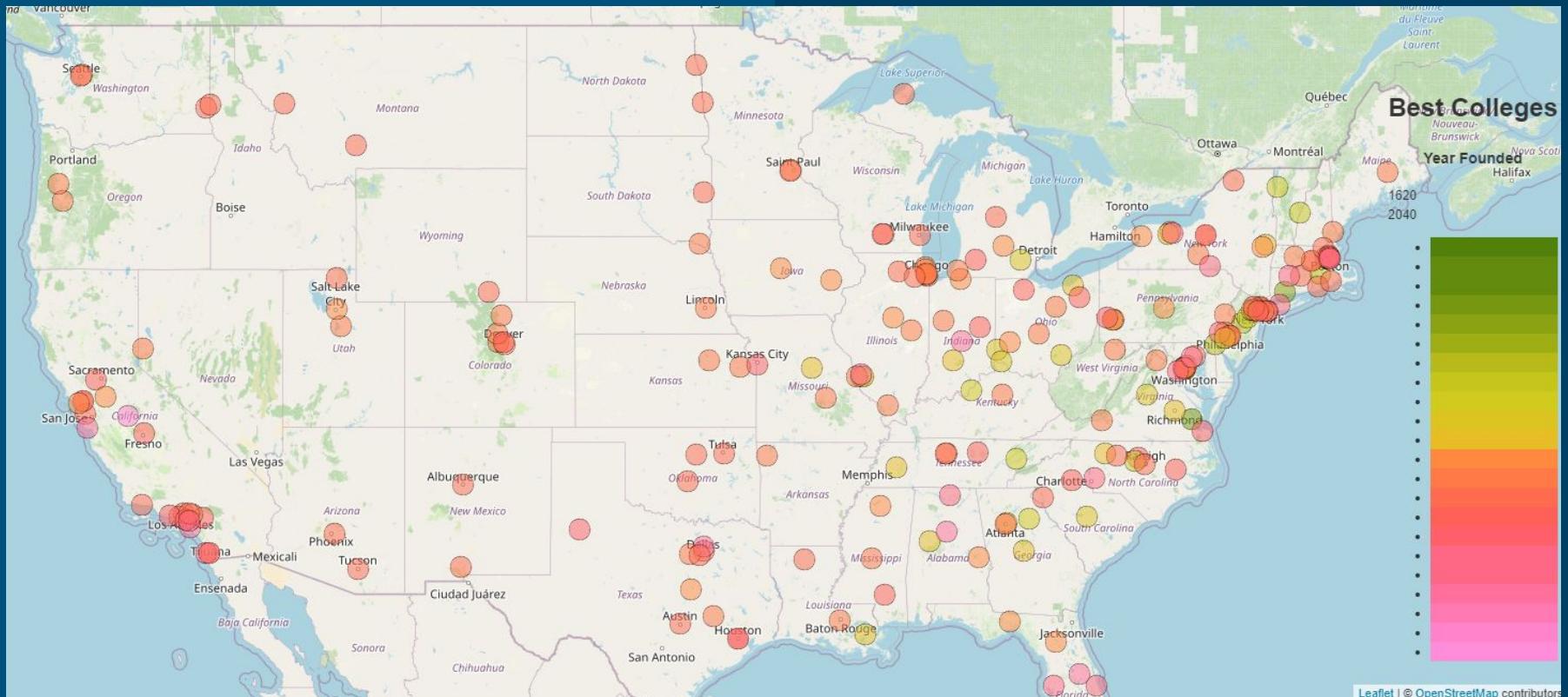
Top 10: Year Established



1. Princeton: 1746
2. Harvard: 1636
3. Univ. of Chicago: 1890
3. Yale University: 1701
5. Columbia: 1754
5. Stanford: 1891
7. M.I.T.: 1861
8. Duke: 1924
8. Univ. of Pennsylvania: 1740

10. Johns Hopkins: 1876

Westward Expansion?

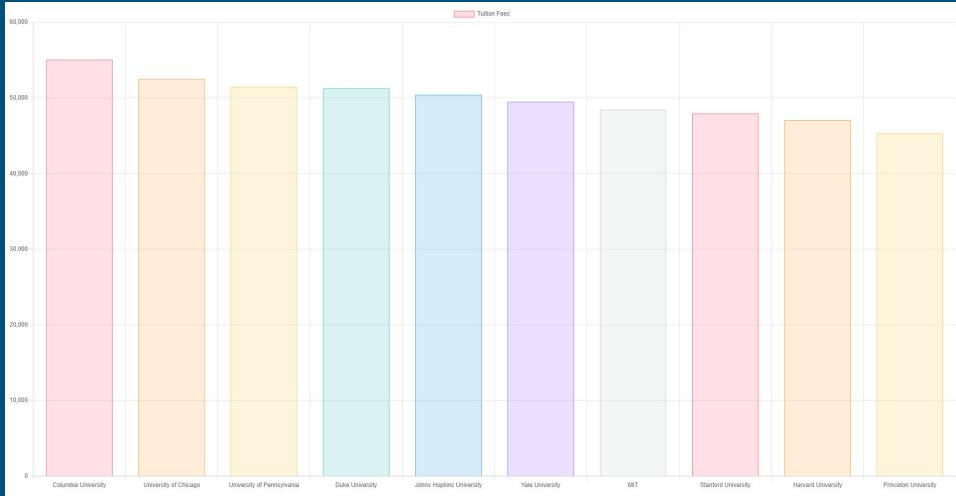


Top 10: Undergrad Enrollment



1. Stanford University - 16,999
2. University of Pennsylvania - 9,726
3. Harvard University - 6,699
4. Duke University - 6,639
5. Johns Hopkins University - 6,524
6. Columbia University - 6,102
7. University of Chicago - 5,844
8. Yale University - 5,532
9. Princeton University - 5,402
10. Massachusetts Institute of Technology - 4,527

Top 10: Tuition Fees



1. Columbia University - \$55,056
2. University of Chicago - \$52,491
3. University of Pennsylvania - \$51,464
4. Duke University - \$51,265
5. Johns Hopkins University - \$50,410
6. Yale University - \$49,480
7. Massachusetts Institute of Technology - \$48,452
8. Stanford University - \$47,940
9. Harvard University - \$47,074
10. Princeton University - \$45,320

Now that the
data is collected,
it is put together
into a website
with an Flask
app

