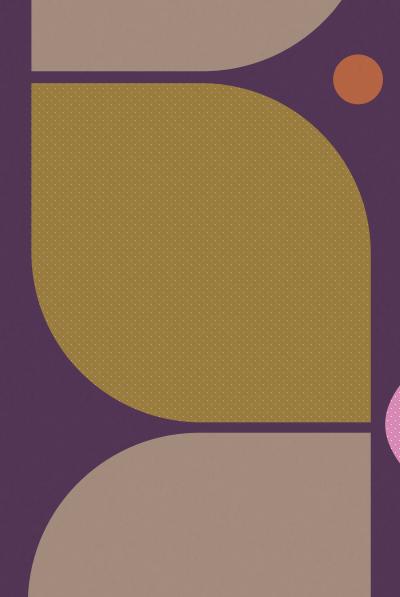
Visualizing Foreign Gifts to American Universities

CPSC547 Michael Yin

Motivation

- Schools receive a lot of donations how do we ensure that they don't come from unsavory sources?
- Section 117, Higher Education Act of 1965 [1]
- It is important to maintain transparency so that the public knows where the donations come from and for what purpose they are used for.

[1] https://www2.ed.gov/policy/highered/leg/foreign-gifts.html



Data

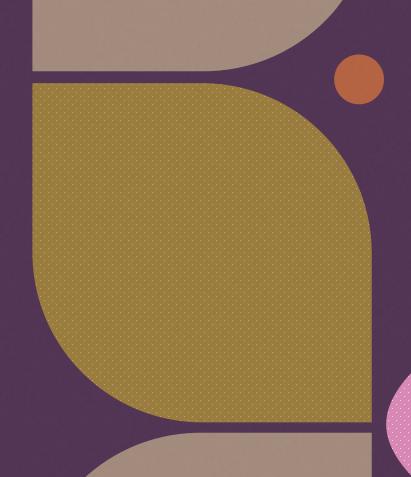
- https://studentaid.gov/data-center/school/foreign-gifts
- https://www.kaggle.com/datasets/mylesoneill/world-university-rankings

1	Α	В	C	D	E	F	G	Н	1	J			
1	Foreign Gift and Contracts Report with Date Range 01.01/2014 to 06/30/2020 Grouped by: OPEID, State, Foreign Gift Received Date Data Source: Postsecondary Education Participation System 10/19/2020												
2	D 💌	OPEID 💌	Institution Name	City	▼ State ▼	Foreign Gift Received Dat 💌	Foreign Gift Amoun 🔻	Gift Type 🔽	Country of Giftor	🔻 Giftor Name 💌			
94	9892	00135000	Colorado State University	Fort Collins	CO	12-31-2019	\$749.00	Contract	ENGLAND	Singer Instruments Co			
95	9893	00135000	Colorado State University	Fort Collins	CO	12-31-2019	\$10,186.00	Contract	ENGLAND	Singer Instruments Company			
96	9894	00135000	Colorado State University	Fort Collins	CO	12-31-2019	\$50.00	Monetary Gift	NEW ZEALAND	Cavanagh			
97	9895	00135000	Colorado State University	Fort Collins	CO	12-31-2019	\$159,483.00	Contract	BRAZIL	Universidade Federal do Para			
98	9896	00135000	Colorado State University	Fort Collins	CO	12-31-2019	\$1,750.00	Contract	CANADA	C D N Isotopes			
99	9897	00135000	Colorado State University	Fort Collins	CO	12-31-2019	\$65,293.00	Contract	CANADA	Doric Lenses Inc			
00	9898	00135000	Colorado State University	Fort Collins	CO	12-31-2019	\$31,806.00	Contract	CANADA	Dura Ramp Inc			
01	9899	00135000	Colorado State University	Fort Collins	CO	12-31-2019	\$11,000.00	Contract	CANADA	Ecole De Technologie Superieure			
02	9900	00135000	Colorado State University	Fort Collins	CO	12-31-2019	\$48,000.00	Contract	CANADA	Engineering.Com			
03	9901	00135000	Colorado State University	Fort Collins	co	12-31-2019	\$21,170.00	Contract	CANADA	ERezLife Software Inc			
04	9902	00135000	Colorado State University	Fort Collins	co	12-31-2019	\$7,000.00	Contract	CANADA	HITACHI HIGH TECH CANADA			
05	9903	00135000	Colorado State University	Fort Collins	CO	12-31-2019	\$786.00	Contract	CANADA	Indigo Instruments			
06	9904	00135000	Colorado State University	Fort Collins	CO	12-31-2019	\$50,853.00	Contract	CANADA	InnoSoft Canada Inc			
07	9905	00135000	Colorado State University	Fort Collins	CO	12-31-2019	\$17,970.00	Contract	CANADA	Integrated Traceability Solutions			
_	9906	00135000	Colorado State University	Fort Collins	CO	12-31-2019	\$8,000.00	Contract	CANADA	Kira Talent, Inc.			
09	9907	00135000	Colorado State University	Fort Collins	CO	12-31-2019	\$1,839.00	Contract	GERMANY	Vera Fimm			
10	9908	00135000	Colorado State University	Fort Collins	CO	12-31-2019	\$120,000.00	Contract	CHINA	East China Normal University			
11	9909	00135000	Colorado State University	Fort Collins	co	12-31-2019			INDIA	KC Overseas Education Private Limit			
12	9910	00135000	Colorado State University	Fort Collins	CO	12-31-2019	\$99,000.00	Contract	INDIA	KRISHNA CONSULTANTS			
13	9911	00135000	Colorado State University	Fort Collins	co	12-31-2019	\$99,000.00	Contract	INDIA	MANYA GROUP			
-	_		Colorado State University	Fort Collins	CO	12-31-2019		Contract	INDIA	Raj Consultants Pvt Ltd			
15	9913	00135000	Colorado State University	Fort Collins	CO	12-31-2019	\$99,000.00	Contract	INDIA	YATHAPU CONSULTING PRIVATE LIMITED			
16	9914	00135000	Colorado State University	Fort Collins	CO	12-31-2019	\$56,617.00	Contract	ENGLAND	Emerald Publishing Limited			
917	9915	00135000	Colorado State University	Fort Collins	co	12-31-2019	\$26,000.00	Contract	ENGLAND	FutureLearn, Inc.			

# world_rank = world rank for university.	▲ institution = name of university	▲ country = country of each university	<pre># national_rank = rank of university within its country</pre>	<pre># quality_of_educati = rank for quality of education</pre>	# alumni rank for a employme
1 1000	1024 unique values	USA 26% China 8% Other (1460) 66%	1 229	1 367	1
1	Harvard University	USA	1	7	9
2	Massachusetts Institute of Technology	USA	2	9	17
3	Stanford University	USA	3	17	11
4	University of Cambridge	United Kingdom	1	10	24
5	California Institute of Technology	USA	4	2	29

Possible Exploration Questions

- Identify trends in donors and recipients of the schools.
 - Idea: can also merge with school ranking data to understand how ranking influences donor trends.
- Understand the ties that schools might have to certain donor countries, and how this may have changed over time.
 - Idea: tying it to topical news events.



How?

- Data and Task Abstraction
 - What type of data and datasets do we have?
 - What kind of tasks might a user take? How can the data be transformed?
- Developing requirements
- Picking the idioms and representations for the data
- Developing the visualization (Python, d3.js, or R)
- Validating the design

