## SEVIS Records Viz by Country of Citizenship

## April 9, 2024

```
[1]: # for ease of viewing on Jupyter NBViewer
     # pip install plotly
[2]: # import relevant libraries
     import tabula
     import pandas as pd
     import plotly.express as px
     import plotly.figure_factory as ff
     import plotly.graph_objects as go
[3]: my_file = '/Users/tinashem/Github Repos/CareerPalz/2022 Top500 F-1 Schools.pdf'
     my_table = tabula.read_pdf(my_file, lattice=True, pages='all',__
      →pandas_options={'header': None})
     len(my_table)
[3]: 11
[4]: # type(my_table[0])
[5]: [print(x) for x in my_table]
                                                   0
                                                                     1
    0
                                         School Name
                                                      Total SEVIS IDs
    1
                                 New York University
                                                                21,453
    2
                             Northeastern University
                                                                21,385
    3
        Columbia University in the City of New York
                                                                20,347
                  University of Southern California
                                                                18,437
    4
                            Arizona State University
    5
                                                                15,855
    6
                              University of Illinois
                                                                15,231
    7
                                   Boston University
                                                                14,150
                                   Purdue University
    8
                                                                12,389
    9
                 University of California San Diego
                                                                12,250
               University of California at Berkeley
    10
                                                                11,489
                              University of Michigan
                                                                11,329
    11
    12
                            University of Washington
                                                                11,200
    13
                  The Pennsylvania State University
                                                                10,481
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14	The University of Texas at Dallas		10,155
15	University of California, Los Angeles	-	10,091
16	Carnegie Mellon University		9,848
17	University of Pennsylvania		9,357
18	University of Wisconsin-Madison		9,053
19	UNIVERSITY OF CALIFORNIA, IRVINE		8,964
20	University of California, Davis		8,830
21	Cornell University		8,800
22	The University of Texas at Arlington		8,792
23	University of North Texas		8,713
24	Georgia Institute of Technology		8,133
25	State University of New York at Buffalo		7,895
26	Harvard University		7,757
27	The Ohio State University		7,668
28	University of the Cumberlands		7,563
29	Texas A&M University		7,355
30	The University of Chicago		7,273
31	University of South Florida		7,220
32	New York University		6,763
33	University of Minnesota		6,744
34	University of Florida		6,696
35	Duke University, & Health Sys.		6,593
36	University of Maryland		6,169
37	Indiana University		6,151
38	University of Texas at Austin		6,130
39	Washington University in St. Louis		6,006
40	Northwestern University		5,993
41	Syracuse University		5,918
	0	1	
0	Stanford University	5,887	
1	University of Cincinnati	5,614	
2	University of Illinois at Chicago	5,521	
3	North Carolina State University	5,458	
4	Johns Hopkins University-Homewood Campus	5,448	
5	University of Rochester	5,430	
6	University of Houston-System	5,386	
7	Stevens Institute of Technology	5,316	
8	Michigan State University	5,301	
9	Massachusetts Institute of Technology	5,279	
10	The New School	5,241	
11	San Jose State University	5,194	
12	State University of New York at Stony Brook	5,092	
13	University of California, Santa Barbara	5,004	
14	University of Massachusetts Amherst	4,906	
15	Yale University	4,710	
16	University of Arizona	4,628	
17	The George Washington University	4,367	
18	Florida International University	4,094	

19	George Mason University 4,087	
20	·	
	Campbellsville University 4,055	
21	University of Pittsburgh 4,033	
22	Texas Tech University 3,937	
23	Georgia State University 3,920	
24	University of Utah 3,906	
25	Savannah College of Art and Design 3,857	
26	Cleveland State University 3,833	
27	Illinois Institute of Technology 3,792	
28	Trine University 3,721	
29	Harrisburg University of Science & Technology 3,672	
30	University of Miami 3,618	
31	New Jersey Institute of Technology 3,602	
32	Iowa State University of Science and Technology 3,573	
33	UNIVERSITY OF CENTRAL MISSOURI 3,510	
34	Westcliff University 3,498	
35	University of Colorado Boulder 3,468	
36	University of Connecticut 3,352	
37	University of California, Riverside 3,328	
38	University of New Haven 3,327	
39	Emory University 3,308	
40	Rutgers, the State University of New Jersey 3,281	
41	University of Virginia 3,274	
42	Drexel University 3,259	
43	Wichita State University 3,248	
44	School of Visual Arts 3,238	
45	Rochester Institute of Technology 3,145	
46	Oregon State University 3,090	
	0	1
0	Virginia Polytechnic Institute and State Unive 3,075	
1	Rutgers, the State University of New Jersey 3,01	.3
2	Georgetown University 3,00	
3	PACE UNIVERSITY 2,96	
4	Rice University 2,92	
5	Case Western Reserve University 2,92	
6	University of Central Florida 2,90	
7	Brown University 2,87	
8	Houston Community College System 2,83	
9	AUBURN UNIVERSITY 2,75	
10	University of North Carolina at Chapel Hill 2,74	
11	University of North Carolina at Charlotte 2,72	
12	State University of New York at Binghamton 2,68	
13	Princeton University 2,63	
14	University of Maryland, Baltimore County 2,63	
15	University of Maryland, Bartimore County 2,03	
16	The University of Georgia 2,56	
17	· · · · · · · · · · · · · · · · · · ·	
Ι/	Flanida Chaha Universites O F3	
18	Florida State University 2,53 Pratt Institute 2,51	

19	University of Missouri-Kansas City	2,496
20	Berklee College of Music	2,476
21	Temple UniversityA Commonwealth University	2,437
22	Academy of Art University	2,430
23	University of Notre Dame du Lac	2,322
24	Hult International Business School	2,317
25	The Vanderbilt University	2,317
26	Santa Monica College	2,315
27	University of Dayton	2,292
28	University of Nebraska-Lincoln	2,254
29	Brigham Young University - Idaho	2,196
30	Brandeis University	2,177
31	The University of Memphis	2,158
32	Indiana University	2,155
33	San Diego State University	2,150
34	University of Kansas	2,071
35	Minnesota State University, Mankato	2,067
36	California State University Fullerton	2,064
37	Sacred Heart University	2,060
38	The University of Toledo	2,056
39	University of San Francisco	2,056
40	The Johns Hopkins University	2,050
41	California State University Long Beach	2,050
42	Oklahoma State University	2,049
43	Boston College	2,039
44	University of South Carolina	2,017
45	New England College	2,009
46	The City University of New York	2,005
10	0	1
0	Florida Institute of Technology	1,982
1	Colorado State University	1,981
2	The University of Iowa	1,973
3	Louisiana State University and A&M College	1,971
4	Clemson University	1,934
5	University of Massachusetts Boston	1,931
6	Washington State University	1,915
7	University of California, Santa Cruz	1,913
8	University of Oklahoma	1,908
9	University of Alabama at Birmingham	1,891
10	Kent State University	1,885
11	California State University, Northridge	1,877
12	Tufts University	1,876
13	Fordham University	1,876
13 14	The American University	1,854
15	Maharishi International University	1,853
16	Teachers College, Columbia University	1,835
17	The University of Texas at El Paso	1,812
18	•	
10	Babson College	1,801

40	D	4 705
19	Dartmouth College	1,795
20	Rensselaer Polytechnic Institute	1,784
21	SANTA CLARA UNIVERSITY	1,784
22	University of Bridgeport	1,777
23	Brigham Young University	1,767
24	Virginia Polytechnic Institute and State Unive 1	,767
25	University at Albany, State University of NY	1,756
26	ArtCenter College of Design	1,755
27	Miami University	1,708
28	Wright State University	1,700
29	University of Wisconsin Milwaukee	1,695
30	Dallas College	1,670
31	Texas A&M University-Commerce	1,663
32	Monroe College	1,634
33	West Virginia University	1,629
34	University of Kentucky	1,599
35	Clark University	1,590
36	New York Institute of Technology	1,589
37	Gannon University	1,585
38	Saint Louis University	1,583
39	University of Missouri-Columbia	1,580
40	Central Michigan University	1,578
41	St. Cloud State University	1,572
42	•	1,569
43	University of Arkansas Southern Methodist University	
	•	1,565
44	Worcester Polytechnic Institute	1,564
45	San Francisco State University (SFSU)	1,562
46	Lewis University	1,528
^	0	1
0	University of Massachusetts Lowell	1,518
1	School of the Art Institute of Chicago	1,514
2	Northern Illinois University	1,510
3	University of Colorado Denver	1,508
4	Lamar University	1,501
5	Portland State University	1,495
6	Embry-Riddle Aeronautical University	1,478
7	Rhode Island School of Design	1,455
8	The University of Tennessee	1,452
9	Southern Illinois University Edwardsville	1,451
10	Northwest Missouri State University	1,451
11	California State University, East Bay	1,450
12	Southeast Missouri State University	1,447
13	Rutgers, the State University of New Jersey	1,446
14	University of Michigan - Dearborn	1,435
15	Suffolk University	1,431
16	The University of Alabama	1,398
17	Lehigh University	1,397
18	Kansas State University	1,386

19	Tulane University 1,354
20	Florida Atlantic University 1,353
21	Northeastern University 1,338
22	Fashion Institute of Technology, State Univers 1,335
23	Wayne State University 1,316
24	University of Texas at San Antonio 1,316
25	University of New Mexico 1,307
26	Kennesaw State University 1,306
27	University of Hawaii at Manoa 1,297
28	The Johns Hopkins University: Medical Institut 1,294
29	Bentley University 1,285
30	Western Illinois University 1,283
31	Missouri State University 1,276
32	Texas A&M University-Kingsville 1,270
33	DePaul University 1,265
34	Southern Arkansas University 1,263
35	University of Oregon 1,261
36	Loyola Marymount University 1,255
37	Michigan Technological University 1,240
38	University of Missouri 1,234
39	Auburn University at Montgomery 1,231
40	Ohio University 1,229
41	Wake Forest University 1,217
42	Saint Peter's University 1,211
43	University of Nevada, Las Vegas 1,191
44	Coast Community College District 1,185
45	Washington University of Science and Technology 1,181
46	Savannah College of Art and Design 1,173
10	0 1
0	University of Houston-Clear Lake 1,172
1	DePaul University 1,170
2	The Pennsylvania State University 1,151
3	University of New Haven 1,146
4	Seattle University 1,136
5	Arkansas State University 1,133
6	Hult International Business School 1,126
7	Mississippi State University 1,124
8	WESTERN MICHIGAN UNIVERSITY 1,121
9	Baylor University 1,117
10	ASA College 1,107
11	-
12	The University of Tampa 1,106 Lindsey Wilson College 1,093
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13 14	Texas State University 1,082
14	Nova Southeastern University 1,080
15	Hawaii Pacific University 1,079
16	Eastern Illinois University 1,077
17	Virginia Commonwealth University 1,068
18	Saint Leo University, Inc. 1,063

19	·	,043
20		,042
21		,039
22	v	,034
23	•	,031
24	-	,029
25	•	,014
26	Ensign College 1	,004
27	California College of the Arts	997
28	California State Polytechnic University Pomona	996
29	The City University of New York	991
30	California Institute of Technology	977
31	South Dakota State University	976
32	Illinois State University	971
33	The University of Texas Rio Grande Valley	969
34	New Mexico State University	956
35	California State University, Sacramento	953
36	California State University	947
37	MCPHS University	946
38	INTERNATIONAL AMERICAN UNIVERSITY	932
39	North Dakota State University	930
40	University of Idaho	912
41	University of Louisville	911
42	Rowan University	909
43	New York Film Academy	904
44	Howard University	902
45	Northern Arizona University	901
46	Bellevue College	882
10	0 1	002
0	Underwood University 864	
1	University of Illinois Springfield 860	
2	CALIFORNIA STATE UNIVERSITY, LOS ANGELES 859	
3	Liberty University 851	
4	Wilmington University 842	
5	WESTERN MICHIGAN UNIVERSITY 841	
6	University of Nevada, Reno 841	
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9	Santa Barbara City College District 837	
10	Columbia University in the City of New York 835	
11	Andrews University 829	
12	Old Dominion University 827	
13	The University of Mississippi 826	
14	Hofstra University 825	
15	Governors State University 821	
16	Edmonds College 817	
17	Long Island University 808	
18	Georgetown University 807	

19	Oakland University 803	
20	University of North Dakota 791	
21	Texas Christian University 787	
22	Youngstown State University 786	
23	Grand Canyon University 784	
24	Mount Holyoke College 770	
25	University of Nebraska 765	
26	Concordia University - St. Paul 757	
27	Middle Tennessee State University 754	
28	Southern New Hampshire University 753	
29	The College of William and Mary 753	
30	Minerva University 751	
31	SKEMA BUSINESS SCHOOL 750	
32	Dallas Baptist University 749	
33	Lindenwood University 741	
34	St. John's University 738	
35	Lynn University 737	
36	The City University of New York 737	
37	St. Francis College 732	
38	Wilmington University 730	
39	Valencia College 724	
40	Colorado School of Mines 716	
41	Webster University 710	
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44 45	Christian Brothers University 704	
45 46	Lawrence Technological University 698	
46	The University of Akron 697	4
0	O The City University of New York	1
1	The City University of New York	696 695
2	Cornell University	
	University of San Diego	693
3	Grand Valley State University	692
4	The University of Southern Mississippi	692
5	Manhattan School of Music	691
6	University of New Hampshire	686
7	University of the Potomac	682
8	Oral Roberts University	675
9	University of Wyoming	669
10	Loyola University Chicago	666
11	Collin County Community College District	663
12	The University of North Carolina at Greensboro	661
13	Park University	661
14	Shoreline Community College	661
15	Texas A&M University - Corpus Christi	661
16	University of Louisiana at Lafayette	659
17	Bunker Hill Community College	658
18	University of North America	658

19	University of Washington, Bothell	657
20	Rivier University	653
21	University of the Pacific	650
22	Trine University	648
23	Pasadena City College	646
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24	Full Sail University	646
25	Southern Utah University	644
26	Maryland Institute College of Art	638
27	Valparaiso University	628
28	INDIANA INSTITUTE OF TECHNOLOGY	627
29	Missouri Valley College	626
30	University of Maine	625
31	•	23
32	Midwestern State University	620
33	UTAH VALLEY UNIVERSITY	620
34	University of St. Thomas	619
35	Chapman University	618
36	California Institute of the Arts	616
37	University of Southern California	615
38	University of Massachusetts Dartmouth	612
39	Eastern Michigan University	607
40	California State University, San Bernardino	606
41	Bradley University	601
42	Barnard College	601
12	•	
12	Oklahama Christian University	600
43	Oklahoma Christian University	600
44	Fordham University	600
44 45	Fordham University Johns Hopkins University Schl of Advanced Intl 6	600
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44 45	Fordham University Johns Hopkins University Schl of Advanced Intl 6 University of Connecticut	600 00 598
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44 45 46	Fordham University Johns Hopkins University Schl of Advanced Intl 6 University of Connecticut  O The University of Findlay Indiana Wesleyan University	600 598 1 598
44 45 46 0 1 2	Fordham University Johns Hopkins University Schl of Advanced Intl 6 University of Connecticut  O The University of Findlay Indiana Wesleyan University Carnegie Mellon University	600 598 1 598 597
44 45 46 0 1 2 3	Fordham University Johns Hopkins University Schl of Advanced Intl 6 University of Connecticut  O The University of Findlay Indiana Wesleyan University Carnegie Mellon University Utah State University	600 598 1 598 597 592 587
44 45 46 0 1 2 3 4	Fordham University Johns Hopkins University Schl of Advanced Intl 6 University of Connecticut  O The University of Findlay Indiana Wesleyan University Carnegie Mellon University Utah State University University of North Alabama	600 598 1 598 597 592 587 586
44 45 46 0 1 2 3 4 5	Fordham University Johns Hopkins University Schl of Advanced Intl 6 University of Connecticut  O The University of Findlay Indiana Wesleyan University Carnegie Mellon University Utah State University University of North Alabama Stanton University	600 598 1 598 597 592 587 586 583
44 45 46 0 1 2 3 4 5 6	Fordham University Johns Hopkins University Schl of Advanced Intl 6 University of Connecticut  O The University of Findlay Indiana Wesleyan University Carnegie Mellon University Utah State University University of North Alabama Stanton University Calvin University	600 598 1 598 597 592 587 586 583 580
44 45 46 0 1 2 3 4 5 6 7	Fordham University Johns Hopkins University Schl of Advanced Intl 6 University of Connecticut  O The University of Findlay Indiana Wesleyan University Carnegie Mellon University Utah State University University of North Alabama Stanton University Calvin University Northwestern University	600 598 1 598 597 592 587 586 583 580 577
44 45 46 0 1 2 3 4 5 6 7 8	Fordham University Johns Hopkins University Schl of Advanced Intl 6 University of Connecticut  O The University of Findlay Indiana Wesleyan University Carnegie Mellon University Utah State University University of North Alabama Stanton University Calvin University Northwestern University McNeese State University	600 598 1 598 597 592 587 586 583 580 577 567
44 45 46 0 1 2 3 4 5 6 7	Fordham University Johns Hopkins University Schl of Advanced Intl 6 University of Connecticut  O The University of Findlay Indiana Wesleyan University Carnegie Mellon University Utah State University University of North Alabama Stanton University Calvin University Northwestern University	600 598 1 598 597 592 587 586 583 580 577
44 45 46 0 1 2 3 4 5 6 7 8	Fordham University Johns Hopkins University Schl of Advanced Intl 6 University of Connecticut  O The University of Findlay Indiana Wesleyan University Carnegie Mellon University Utah State University University of North Alabama Stanton University Calvin University Northwestern University McNeese State University	600 598 1 598 597 592 587 586 583 580 577 567
44 45 46 0 1 2 3 4 5 6 7 8 9	Fordham University Johns Hopkins University Schl of Advanced Intl 6 University of Connecticut  O The University of Findlay Indiana Wesleyan University Carnegie Mellon University Utah State University University of North Alabama Stanton University Calvin University Northwestern University McNeese State University The City University of New York	600 598 1 598 597 592 587 586 583 580 577 567
44 45 46 0 1 2 3 4 5 6 7 8 9 10	Fordham University Johns Hopkins University Schl of Advanced Intl 6 University of Connecticut  O The University of Findlay Indiana Wesleyan University Carnegie Mellon University Utah State University University of North Alabama Stanton University Calvin University Northwestern University McNeese State University The City University of New York East Central University	600 598 1 598 597 592 587 586 583 580 577 567 565 562
44 45 46 0 1 2 3 4 5 6 7 8 9 10 11 12	Fordham University Johns Hopkins University Schl of Advanced Intl 6 University of Connecticut  O The University of Findlay Indiana Wesleyan University Carnegie Mellon University Utah State University University of North Alabama Stanton University Calvin University Northwestern University McNeese State University The City University of New York East Central University Seattle Colleges University of Missouri-St. Louis	600 598 1 598 597 592 587 586 583 580 577 565 562 561 558
44 45 46 0 1 2 3 4 5 6 7 8 9 10 11 12 13	Fordham University Johns Hopkins University Schl of Advanced Intl 6 University of Connecticut  O The University of Findlay Indiana Wesleyan University Carnegie Mellon University Utah State University University of North Alabama Stanton University Calvin University Northwestern University McNeese State University The City University of New York East Central University Seattle Colleges University of Missouri-St. Louis Montclair State University	600 598 1 598 597 592 587 586 583 580 577 565 562 561 558
44 45 46 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Fordham University Johns Hopkins University Schl of Advanced Intl 6 University of Connecticut  O The University of Findlay Indiana Wesleyan University Carnegie Mellon University Utah State University University of North Alabama Stanton University Calvin University Northwestern University McNeese State University The City University of New York East Central University Seattle Colleges University of Missouri-St. Louis Montclair State University Pensacola Christian College, Inc.	600 598 1 598 597 592 587 586 583 580 577 565 562 561 558 558
44 45 46 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Fordham University Johns Hopkins University Schl of Advanced Intl 6 University of Connecticut  O The University of Findlay Indiana Wesleyan University Carnegie Mellon University Utah State University University of North Alabama Stanton University Calvin University Northwestern University McNeese State University The City University of New York East Central University Seattle Colleges University of Missouri-St. Louis Montclair State University Pensacola Christian College, Inc. Villanova University	600 598 1 598 597 592 587 586 583 580 577 565 565 562 561 558 558 558
44 45 46 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Fordham University Johns Hopkins University Schl of Advanced Intl 6 University of Connecticut  O The University of Findlay Indiana Wesleyan University Carnegie Mellon University Utah State University University of North Alabama Stanton University Calvin University Northwestern University McNeese State University The City University of New York East Central University Seattle Colleges University of Missouri-St. Louis Montclair State University Pensacola Christian College, Inc. Villanova University	600 598 1 598 597 592 587 586 583 580 577 565 562 561 558 558 556 553 551
44 45 46 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Fordham University Johns Hopkins University Schl of Advanced Intl 6 University of Connecticut  O The University of Findlay Indiana Wesleyan University Carnegie Mellon University Utah State University University of North Alabama Stanton University Calvin University Northwestern University McNeese State University The City University of New York East Central University Seattle Colleges University of Missouri-St. Louis Montclair State University Pensacola Christian College, Inc. Villanova University	600 598 1 598 597 592 587 586 583 580 577 565 565 562 561 558 558 558

19	Morgan State University	546
20	University of Arkansas at Little Rock	546
21	Marist College	543
22	Duquesne University	543
23	Purdue University	539
24	Southern California Institute of Architecture	538
25	Franklin & Marshall College	537
26	The University of Louisiana at Monroe	533
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27	East Tennessee State University	532
28	Georgia Southern University	530
29	Miami Dade College	526
30	The University of Alabama in Huntsville	519
31	Fairleigh Dickinson University	518
32	Montana State University - Bozeman	517
33	University of Central Arkansas	514
34	Wesleyan University	512
35	The Culinary Institute of America	507
36	The University of Tulsa	504
37	Miami Dade College	504
38	Smith College	502
	•	502
39	University of South Dakota	
40	Augustana College	500
41	The University of Vermont	489
42	St. Thomas University	487
43	Grinnell College	487
44	Ringling College of Art and Design	486
45	North Carolina Agricultural and Technical Stat 4	80
46	University of Hartford	480
	0	1
0	Brigham Young University-Hawaii	480
1	Wellesley College	478
2	Biola University	475
3	University of Connecticut	473
4	California Polytechnic State University, San L 4	
5	Franklin University	471
6	The City University of New York	467
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7	Lincoln University	466
8	DePauw University	465
9		
10	The University of Texas at Tyler	465
11	California Baptist University	465 461
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12	California Baptist University	461
	California Baptist University Florida National University	461 460
12	California Baptist University Florida National University Catholic University of America	461 460 459
12 13 14	California Baptist University Florida National University Catholic University of America Claremont Graduate University ATLANTIS UNIVERSITY	461 460 459 458 457
12 13 14 15	California Baptist University Florida National University Catholic University of America Claremont Graduate University ATLANTIS UNIVERSITY Louisiana Tech University	461 460 459 458 457 457
12 13 14 15 16	California Baptist University Florida National University Catholic University of America Claremont Graduate University ATLANTIS UNIVERSITY Louisiana Tech University University of South Alabama	461 460 459 458 457 457
12 13 14 15	California Baptist University Florida National University Catholic University of America Claremont Graduate University ATLANTIS UNIVERSITY Louisiana Tech University	461 460 459 458 457 457

19	Marymount University	448
20	Sam Houston State University	442
21	Truman State University	440
22	California Lutheran University	440
	•	440
23	St. Olaf College	
24	University of Washington Tacoma	439
25	Barry University	438
26	University of Richmond	436
27	The College of Wooster	430
28	Musicians Institute	430
29	Macalester College	430
30	University of the Potomac	429
31	Oberlin College	427
32	Weber State University	427
33	University of La Verne	425
34	•	424
	University of Houston-Downtown	
35	Rochester University	424
36	University of Detroit Mercy	423
37	Trinity College	421
38	Bergen Community College	421
39	North American University	419
40	Goldey-Beacom College	419
41	Washington University of Virginia	418
42	University of Hawaii - Kapiolani Community Col 41	۱7
43	Broward College	417
43 44	Broward College	417
44	Broward College The Fashion Institute of Design & Merchandisin 41	417 l6
44 45	Broward College The Fashion Institute of Design & Merchandisin 41 Murray State University	417 l6 415
44	Broward College The Fashion Institute of Design & Merchandisin 41 Murray State University UNIVERSITY OF CENTRAL MISSOURI	417 l6 415 413
44 45 46	Broward College The Fashion Institute of Design & Merchandisin 41 Murray State University UNIVERSITY OF CENTRAL MISSOURI 0	417 l6 415 413
44 45 46	Broward College The Fashion Institute of Design & Merchandisin 41  Murray State University UNIVERSITY OF CENTRAL MISSOURI  O Otis College of Art and Design	417 16 415 413 1 410
44 45 46 0 1	Broward College The Fashion Institute of Design & Merchandisin 41  Murray State University UNIVERSITY OF CENTRAL MISSOURI  O Otis College of Art and Design University of Rhode Island	417 16 415 413 1 410 406
44 45 46 0 1 2	Broward College The Fashion Institute of Design & Merchandisin 41  Murray State University UNIVERSITY OF CENTRAL MISSOURI  O Otis College of Art and Design University of Rhode Island University of North Florida	417 16 415 413 1 410 406 406
44 45 46 0 1 2 3	Broward College The Fashion Institute of Design & Merchandisin 41  Murray State University UNIVERSITY OF CENTRAL MISSOURI  O Otis College of Art and Design University of Rhode Island University of North Florida New England Conservatory	417 16 415 413 1 410 406 406 403
44 45 46 0 1 2 3 4	Broward College The Fashion Institute of Design & Merchandisin 41  Murray State University UNIVERSITY OF CENTRAL MISSOURI  O Otis College of Art and Design University of Rhode Island University of North Florida New England Conservatory Loma Linda University (LLU)	417 16 415 413 1 410 406 406 403 402
44 45 46 0 1 2 3	Broward College The Fashion Institute of Design & Merchandisin 41  Murray State University UNIVERSITY OF CENTRAL MISSOURI  O Otis College of Art and Design University of Rhode Island University of North Florida New England Conservatory	417 16 415 413 1 410 406 406 403
44 45 46 0 1 2 3 4	Broward College The Fashion Institute of Design & Merchandisin 41  Murray State University UNIVERSITY OF CENTRAL MISSOURI  O Otis College of Art and Design University of Rhode Island University of North Florida New England Conservatory Loma Linda University (LLU)	417 16 415 413 1 410 406 406 403 402
44 45 46 0 1 2 3 4 5	Broward College The Fashion Institute of Design & Merchandisin 41  Murray State University UNIVERSITY OF CENTRAL MISSOURI  O Otis College of Art and Design University of Rhode Island University of North Florida New England Conservatory Loma Linda University (LLU) Tennessee Technological University	417 16 415 413 1 410 406 406 403 402 402
44 45 46 0 1 2 3 4 5	Broward College The Fashion Institute of Design & Merchandisin 41  Murray State University UNIVERSITY OF CENTRAL MISSOURI  O Otis College of Art and Design University of Rhode Island University of North Florida New England Conservatory Loma Linda University (LLU) Tennessee Technological University Towson University	417 16 415 413 1 410 406 406 403 402 402 399
44 45 46 0 1 2 3 4 5 6 7	Broward College The Fashion Institute of Design & Merchandisin 41  Murray State University UNIVERSITY OF CENTRAL MISSOURI  O Otis College of Art and Design University of Rhode Island University of North Florida New England Conservatory Loma Linda University (LLU) Tennessee Technological University Towson University Hillsborough Community College Clemson University	417 16 415 413 1 410 406 406 403 402 402 399 399
44 45 46 0 1 2 3 4 5 6 7 8 9	Broward College The Fashion Institute of Design & Merchandisin 41  Murray State University UNIVERSITY OF CENTRAL MISSOURI  O Otis College of Art and Design University of Rhode Island University of North Florida New England Conservatory Loma Linda University (LLU) Tennessee Technological University Towson University Hillsborough Community College Clemson University Foothill College	417 16 415 413 1 410 406 406 403 402 402 399 399 398 398
44 45 46 0 1 2 3 4 5 6 7 8 9 10	Broward College The Fashion Institute of Design & Merchandisin 41  Murray State University UNIVERSITY OF CENTRAL MISSOURI  O Otis College of Art and Design University of Rhode Island University of North Florida New England Conservatory Loma Linda University (LLU) Tennessee Technological University Towson University Hillsborough Community College Clemson University Foothill College Everglades College, Inc., DBA Keiser University	417 16 415 413 1 410 406 406 403 402 402 399 399 398 398 398
44 45 46 0 1 2 3 4 5 6 7 8 9 10 11	Broward College The Fashion Institute of Design & Merchandisin 41  Murray State University UNIVERSITY OF CENTRAL MISSOURI  O Otis College of Art and Design University of Rhode Island University of North Florida New England Conservatory Loma Linda University (LLU) Tennessee Technological University Towson University Hillsborough Community College Clemson University Foothill College Everglades College, Inc., DBA Keiser University Concordia University	417 16 415 413 1 410 406 406 403 402 402 399 399 398 398 398 397 394
44 45 46 0 1 2 3 4 5 6 7 8 9 10 11 12	Broward College The Fashion Institute of Design & Merchandisin 41  Murray State University UNIVERSITY OF CENTRAL MISSOURI  O Otis College of Art and Design University of Rhode Island University of North Florida New England Conservatory Loma Linda University (LLU) Tennessee Technological University Towson University Hillsborough Community College Clemson University Foothill College Everglades College, Inc., DBA Keiser University Concordia University University of California, Merced	417 16 415 413 1 410 406 406 403 402 402 399 398 398 398 397 394 394
44 45 46 0 1 2 3 4 5 6 7 8 9 10 11 12 13	Broward College The Fashion Institute of Design & Merchandisin 41  Murray State University UNIVERSITY OF CENTRAL MISSOURI  O Otis College of Art and Design University of Rhode Island University of North Florida New England Conservatory Loma Linda University (LLU) Tennessee Technological University Towson University Hillsborough Community College Clemson University Foothill College Everglades College, Inc., DBA Keiser University Concordia University University of California, Merced Idaho State University	417 16 415 413 1 410 406 406 403 402 399 399 398 398 397 394 394 391
44 45 46 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14	Broward College The Fashion Institute of Design & Merchandisin 41  Murray State University  UNIVERSITY OF CENTRAL MISSOURI  O Otis College of Art and Design  University of Rhode Island  University of North Florida  New England Conservatory  Loma Linda University (LLU)  Tennessee Technological University  Towson University  Hillsborough Community College  Clemson University  Foothill College  Everglades College, Inc., DBA Keiser University  Concordia University  University of California, Merced  Idaho State University  Irvine Valley College	417 16 415 413 1 410 406 406 403 402 402 399 398 398 398 397 394 394 391 390
44 45 46 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Broward College The Fashion Institute of Design & Merchandisin 41  Murray State University UNIVERSITY OF CENTRAL MISSOURI  O Otis College of Art and Design University of Rhode Island University of North Florida New England Conservatory Loma Linda University (LLU) Tennessee Technological University Towson University Hillsborough Community College Clemson University Foothill College Everglades College, Inc., DBA Keiser University Concordia University University of California, Merced Idaho State University Irvine Valley College Salt Lake Community College	417 16 415 413 1 410 406 403 402 402 399 398 398 397 394 394 391 390 386
44 45 46 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	Broward College The Fashion Institute of Design & Merchandisin 41  Murray State University UNIVERSITY OF CENTRAL MISSOURI  O Otis College of Art and Design University of Rhode Island University of North Florida New England Conservatory Loma Linda University (LLU) Tennessee Technological University Towson University Hillsborough Community College Clemson University Foothill College Everglades College, Inc., DBA Keiser University Concordia University University of California, Merced Idaho State University Irvine Valley College Salt Lake Community College Drew University	417 16 415 413 1 410 406 406 403 402 402 399 398 398 397 394 394 391 390 386 385
44 45 46 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	Broward College The Fashion Institute of Design & Merchandisin 41  Murray State University UNIVERSITY OF CENTRAL MISSOURI  O Otis College of Art and Design University of Rhode Island University of North Florida New England Conservatory Loma Linda University (LLU) Tennessee Technological University Towson University Hillsborough Community College Clemson University Foothill College Everglades College, Inc., DBA Keiser University Concordia University University of California, Merced Idaho State University Irvine Valley College Salt Lake Community College	417 16 415 413 1 410 406 403 402 402 399 398 398 397 394 394 391 390 386

```
19
                    California State University San Marcos
                                                             384
    20
                                           Troy University
                                                             383
    21
                                        Colgate University
                                                             382
    22
                                       Clarkson University
                                                             381
                        Indiana University of Pennsylvania
    23
                                                             381
                        CENTRAL PIEDMONT COMMUNITY COLLEGE
                                                             380
    24
                             Virginia Christian University
    25
                                                             380
    26
        Embry-Riddle Aeronautical University - Prescot... 379
    27
                 Southwestern Baptist Theological Seminary
                                                             377
                                Pittsburg State University
    28
                                                             377
    29
                                      College of San Mateo
                                                             377
                                  Texas Woman's University
    30
                                                             376
                State University of New York at New Paltz
    31
                                                             376
    32
                                         Ottawa University
                                                             375
    33
               Mt. San Antonio Community College District
                                                             373
    34
                                Johnson & Wales University
                                                             370
    35
                                        Cornell University
                                                             370
[5]: [None, None, None, None, None, None, None, None, None, None]
[6]: result_df = pd.concat(my_table, ignore_index=True)
     result_df
[6]:
                                                      0
                                                                       1
     0
                                           School Name
                                                       Total SEVIS IDs
     1
                                   New York University
                                                                  21,453
     2
                               Northeastern University
                                                                  21,385
     3
          Columbia University in the City of New York
                                                                  20,347
     4
                    University of Southern California
                                                                  18,437
     . .
     496
            State University of New York at New Paltz
                                                                     376
     497
                                     Ottawa University
                                                                     375
     498
           Mt. San Antonio Community College District
                                                                     373
     499
                            Johnson & Wales University
                                                                     370
     500
                                    Cornell University
                                                                     370
     [501 rows x 2 columns]
[7]: result_df.columns = result_df.iloc[0]
    result_df
[8]: 0
                                           School Name Total SEVIS IDs
                                           School Name
                                                       Total SEVIS IDs
     0
     1
                                   New York University
                                                                  21,453
     2
                               Northeastern University
                                                                  21,385
     3
          Columbia University in the City of New York
                                                                  20,347
     4
                    University of Southern California
                                                                  18,437
```

```
376
      496
             State University of New York at New Paltz
                                      Ottawa University
      497
                                                                       375
            Mt. San Antonio Community College District
      498
                                                                       373
      499
                             Johnson & Wales University
                                                                       370
      500
                                     Cornell University
                                                                       370
      [501 rows x 2 columns]
 [9]: result_df.drop(0, inplace=True)
[10]: result_df.reset_index(inplace=True)
      result_df
[10]: 0
           index
                                                    School Name Total SEVIS IDs
      0
               1
                                            New York University
                                                                          21,453
               2
      1
                                       Northeastern University
                                                                          21,385
      2
               3
                                                                          20,347
                  Columbia University in the City of New York
      3
               4
                             University of Southern California
                                                                          18,437
               5
      4
                                      Arizona State University
                                                                          15,855
      . .
      495
             496
                    State University of New York at New Paltz
                                                                             376
             497
      496
                                             Ottawa University
                                                                             375
      497
             498
                   Mt. San Antonio Community College District
                                                                             373
      498
             499
                                    Johnson & Wales University
                                                                             370
      499
             500
                                             Cornell University
                                                                             370
      [500 rows x 3 columns]
[11]: result_df.drop('index', inplace=True, axis=1)
      result_df
[11]: 0
                                             School Name Total SEVIS IDs
      0
                                    New York University
                                                                   21,453
                                Northeastern University
      1
                                                                  21,385
      2
           Columbia University in the City of New York
                                                                  20,347
      3
                     University of Southern California
                                                                   18,437
      4
                               Arizona State University
                                                                   15,855
      495
             State University of New York at New Paltz
                                                                      376
      496
                                      Ottawa University
                                                                      375
            Mt. San Antonio Community College District
      497
                                                                      373
      498
                             Johnson & Wales University
                                                                      370
      499
                                     Cornell University
                                                                      370
```

[500 rows x 2 columns]

```
[12]: my_pdf = '/Users/tinashem/Github Repos/CareerPalz/2022_AllStudentsByCOC.pdf'
      my_df = tabula.read_pdf(my_pdf, lattice=True, pages='all',__
       →pandas_options={'header': None})
      len(my_df)
[12]: 6
[13]: my_df
[13]: [
                                           0
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                     Country of Citizenship
                                               Total SEVIS IDS
       1
                                                       324,196
                                       CHINA
       2
                                       INDIA
                                                       297,151
       3
           REPUBLIC OF KOREA (SOUTH KOREA)
                                                         62,617
       4
                                      CANADA
                                                         41,392
       5
                                      BRAZIL
                                                         37,904
       6
                                     VIETNAM
                                                         29,742
       7
                                       JAPAN
                                                         26,519
       8
                                      TAIWAN
                                                         26,225
       9
                                SAUDI ARABIA
                                                         24,485
       10
                                     NIGERIA
                                                         22,935
                                                         22,715
       11
                                      MEXICO
       12
                                    COLOMBIA
                                                         20,744
       13
                                       NEPAL
                                                         20,344
       14
                                  BANGLADESH
                                                         18,184
       15
                                     GERMANY
                                                         16,097
                             UNITED KINGDOM
                                                         15,144
       16
       17
                                      FRANCE
                                                         14,713
       18
                                       SPAIN
                                                         14,444
       19
                                      TURKEY
                                                         14,009
       20
                                                         12,183
                                         IRAN
       21
                                    PAKISTAN
                                                         11,993
       22
                                       ITALY
                                                         11,435
       23
                                   INDONESIA
                                                         8,932
       24
                                    THAILAND
                                                         8,777
       25
                                      RUSSIA
                                                         7,625
       26
                                        PERU
                                                         7,560
       27
                                       GHANA
                                                         7,537
       28
                                      KUWAIT
                                                         7,509
       29
                                   HONG KONG
                                                         7,500
       30
                                   VENEZUELA
                                                         7,131
       31
                                 PHILIPPINES
                                                          6,278
       32
                                   AUSTRALIA
                                                         5,990
       33
                                    MALAYSIA
                                                         5,887
                                       KENYA
       34
                                                         5,792
```

```
35
                              ECUADOR
                                                   5,650
36
                            SINGAPORE
                                                   5,166
37
                                                   4,996
                            ARGENTINA
38
                                                   4,855
                                 EGYPT
39
                                 CHILE
                                                   4,697
40
                               SWEDEN
                                                   4,570
41
                         BAHAMAS, THE
                                                   4,510
42
                              JAMAICA
                                                   4,492
43
                             ETHIOPIA
                                                   4,274,
                   0
0
    Total SEVIS IDS
1
             324,196
2
             297,151
3
              62,617
4
              41,392
5
              37,904
6
              29,742
7
              26,519
8
              26,225
9
              24,485
10
              22,935
11
              22,715
12
              20,744
13
              20,344
14
              18,184
15
              16,097
16
              15,144
17
              14,713
18
              14,444
19
              14,009
20
              12,183
21
              11,993
22
              11,435
23
               8,932
24
               8,777
25
               7,625
26
               7,560
27
               7,537
28
               7,509
29
               7,500
30
               7,131
31
               6,278
32
               5,990
33
               5,887
34
               5,792
35
               5,650
               5,166
36
```

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37
               4,996
38
               4,855
39
               4,697
40
               4,570
41
               4,510
42
               4,492
43
               4,274,
                                1
                        0
                           4,262
0
             NETHERLANDS
1
             SOUTH AFRICA
                           4,036
2
                   JORDAN
                           3,925
3
                  UKRAINE
                           3,806
4
             SWITZERLAND
                           3,737
5
                           3,731
               KAZAKHSTAN
6
                    BURMA
                           3,592
7
                SRI LANKA
                           3,570
8
                   ISRAEL
                            3,549
9
                   NORWAY
                            3,474
      DOMINICAN REPUBLIC
10
                           3,414
11
                   PANAMA
                           3,363
12
                 MONGOLIA
                           3,282
13
                 HONDURAS
                           3,253
14
                   GREECE
                           2,949
15
                   POLAND
                           2,853
16
                     OMAN
                           2,546
17
        CONGO (KINSHASA)
                           2,543
                 ZIMBABWE
                           2,325
18
19
                  LEBANON
                           2,319
                           2,236
20
                  MOROCCO
21
             NEW ZEALAND
                           2,084
22
                  BELGIUM
                           1,994
23
                  BOLIVIA
                           1,909
24
                  DENMARK
                           1,909
25
                           1,887
                   RWANDA
26
               COSTA RICA
                           1,861
27
     TRINIDAD AND TOBAGO
                           1,800
                           1,798
28
                   SERBIA
29
               UZBEKISTAN
                            1,736
30
                           1,731
                  IRELAND
31
                 PORTUGAL
                            1,728
32
    UNITED ARAB EMIRATES
                           1,725
                           1,668
33
                GUATEMALA
                           1,665
34
                  ALBANIA
35
            COTE D'IVOIRE
                           1,643
36
                  AUSTRIA
                           1,557
37
                   UGANDA
                           1,525
             EL SALVADOR
38
                           1,485
```

20	HATEL	4 077
39		1,377
40		1,373
41		1,341
42		1,330
43		1,277
44		1,213
45		1,197
46	KYRGYZSTAN	1,197,
	0	1
0	HUNGARY	1,165
1	AZERBAIJAN	1,135
2	GEORGIA	1,078
3	ANGOLA	947
4	PARAGUAY	848
5	FINLAND	830
6	ARMENIA	806
7	BULGARIA	798
8	SENEGAL	798
9	ZAMBIA	786
10	BELARUS	757
11	NICARAGUA	719
12	LIBYA	712
13	CROATIA	
14	DOMINICA	
15	QATAR	
16	AFGHANISTAN	
17	BURKINA FASO	582
18	ALGERIA	580
19	SLOVAKIA	580
20	ICELAND	
21	URUGUAY	
22	YEMEN	562
23	CYPRUS	522
24	BELIZE	518
25	TURKMENISTAN	
26	LITHUANIA	506
27	MALAWI	499
	GUYANA	
28		494
29	BERMUDA	484
30	IRAQ	
31	MACAU	
32	BARBADOS	446
33	SUDAN	441
34	WEST BANK	
35	BAHRAIN	426
36	MALI	417
37	LATVIA	406

38	SYRIA 406	
39	EQUATORIAL GUINEA 397	
40	GABON 397	
41	GAMBIA, THE 392	
42	LIBERIA 387	
43	SIERRA LEONE 358	
44	BENIN 352	
45	BOSNIA AND HERZEGOVINA 346	
46	MACEDONIA 345,	
	0	1
0	MAURITIUS	327
1	BOTSWANA	325
2	TAJIKISTAN	323
3	MADAGASCAR	321
4	SAINT LUCIA	310
5	MONTENEGRO	
6	SLOVENIA	
7	NIGER	
8	ANTIGUA AND BARBUDA	276
9	TOGO	
10	KOSOVO	
11	SAINT KITTS AND NEVIS	
12	ESTONIA	255
13	MOLDOVA	243
14 15	SWAZILAND BURUNDI	
16	GRENADA	232 227
17	MOZAMBIQUE	
18	CAYMAN ISLANDS	
19	BHUTAN	
20	CONGO (BRAZZAVILLE)	
21	LAOS	177
22	ERITREA	172
23	SOUTH SUDAN	155
24	CUBA	154
25	GAZA STRIP	151
26	PAPUA NEW GUINEA	150
27	NAMIBIA	149
28	CURACAO	147
29	SAINT VINCENT AND THE GRENADINES	147
30	LUXEMBOURG	144
31	GUINEA	132
32	SOMALIA	130
33	MALTA	108
34	ARUBA	89
35	CAPE VERDE	89
36	CHAD	85

37	SURINAME	ME 7	
38	LESOTHO		77
39	TURKS AND CAICOS ISLANDS	NDS	
40	FIJI	FIJI	
41	MAURITANIA		62
42	BRITISH VIRGIN ISLANDS		61
43	STATELESS		50
44	SINT MAARTEN		41
45	BRUNEI		39
46	MALDIVES		36,
	0	1	
0	TONGA	34	
1	ANDORRA	33	
2	FRENCH POLYNESIA	23	
3	MONACO	22	
4	CENTRAL AFRICAN REPUBLIC	21	
5	LIECHTENSTEIN	20	
6		20	
7		20	
8		18	
9		17	
10		16	
11		14	
12	KIRIBATI	13	
13	SOLOMON ISLANDS	12	
14	BASSAS DA INDIA	10	
15	SAN MARINO	9	
16	ISLE OF MAN	8	
17	JERSEY	8	
18	REUNION	8	
19	COMOROS	7	
20	UNKNOWN	7	
21	MARTINIQUE	6	
22	VANUATU	5	
23		4	
24	DJIBOUTI	4	
25	GIBRALTAR	4	
26	NEW CALEDONIA	4	
27	FRENCH GUIANA	3	
28	GUERNSEY	3	
29	MONTSERRAT	3	
30	SAO TOME AND PRINCIPE	3	
31	FAROE ISLANDS	2	
32	PALAU	2	
33	GREENLAND	1	
34	JAN MAYEN	1	
35	NETHERLANDS ANTILLES	1	

```
NEUTRAL ZONE
       36
       37
                                      NIUE
       38
                SAINT PIERRE AND MIQUELON
       39
                           TROMELIN ISLAND
       40
                                    TUVALU
                                             1]
[14]: bigger_df = pd.concat(my_df, ignore_index=True)
      bigger_df
Γ14]:
                                          0
                                                            1
                    Country of Citizenship Total SEVIS IDS
      1
                                      CHINA
                                                      324,196
      2
                                      INDIA
                                                      297,151
      3
           REPUBLIC OF KOREA (SOUTH KOREA)
                                                       62,617
      4
                                                       41,392
                                     CANADA
      265
                               NEUTRAL ZONE
                                                            1
      266
                                                            1
      267
                 SAINT PIERRE AND MIQUELON
                                                            1
      268
                            TROMELIN ISLAND
                                                            1
      269
                                     TUVALU
                                                            1
      [270 rows x 2 columns]
[15]: bigger df.columns = bigger df.iloc[0]
      bigger_df.drop(0, inplace=True)
      bigger_df
[15]: 0
                    Country of Citizenship Total SEVIS IDS
      1
                                      CHINA
                                                     324,196
      2
                                      INDIA
                                                     297,151
      3
           REPUBLIC OF KOREA (SOUTH KOREA)
                                                      62,617
      4
                                     CANADA
                                                      41,392
      5
                                     BRAZIL
                                                      37,904
                               NEUTRAL ZONE
      265
                                                           1
      266
                                       NIUE
                                                           1
      267
                 SAINT PIERRE AND MIQUELON
                                                           1
      268
                            TROMELIN ISLAND
      269
                                     TUVALU
      [269 rows x 2 columns]
[16]: | # fig = px.choropleth(data_frame=bigger_df, locations='Country of Citizenship', ___
      ⇔locationmode='country names', color='Total SEVIS IDS')
      # fiq.show()
```

```
# Plotly choropleth map
fig = go.Figure(go.Choropleth(
   locations=bigger_df['Country of Citizenship'], # Country codes or names
   locationmode='country names',
   z=bigger_df['Total SEVIS IDS'], # Data to be color-coded
   colorscale='Viridis',
   autocolorscale=False,
   marker_line_color='black', # Line color between countries
   colorbar title='Number'
))
fig.update_layout(
   title_text='World SEVIS IDS',
   geo=dict(
        showcoastlines=True, # Display coastlines
   )
)
fig.show()
```



Number

```
fig = px.choropleth(
    bigger_df,
    locations='Country of Citizenship', # Column specifying the country names
    locationmode='country names',
    color='Total SEVIS IDS', # Column specifying the population
    color_continuous_scale='Viridis', # Color scale
    labels={'Total SEVIS IDS': 'Total SEVIS IDS'}, # Labels for hoveru
    information
        title='World SEVIS IDS' # Title of the plot
)

fig.update_geos(showcoastlines=True) # Display coastlines

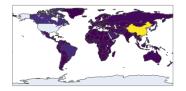
fig.show()
```



```
Total SEVIS IDS
324,196
297,151
62,617
41,392
37,904
29,742
26,519
26,225
```

```
[18]: bigger_df.info()
     <class 'pandas.core.frame.DataFrame'>
     RangeIndex: 269 entries, 1 to 269
     Data columns (total 2 columns):
          Column
                                  Non-Null Count Dtype
         ----
      0
          Country of Citizenship 269 non-null
                                                   object
          Total SEVIS IDS
                                 225 non-null
                                                   object
     dtypes: object(2)
     memory usage: 4.3+ KB
[19]: bigger_df.columns
[19]: Index(['Country of Citizenship', 'Total SEVIS IDS'], dtype='object', name=0)
[20]: type(bigger_df['Total SEVIS IDS'].values[0])
      bigger_df['Total SEVIS IDS'].values[0]
[20]: '324,196'
[21]: def convert_to_int(value):
          Purpose: formatting the strings to remove commas and change data type to_{\sqcup}
       ⇔int data type
          Inputs: string to be formatted
          Returns: final_number, an int which is the result of the proper formatting
          if isinstance(value, str):
              return int(value.replace(',', ''))
          else:
              return int(value)
      non_null = bigger_df[bigger_df['Total SEVIS IDS'].notnull()]
```

```
non_null['Total SEVIS IDS'] = non_null['Total SEVIS IDS'].apply(convert_to_int)
     non_null.info()
     <class 'pandas.core.frame.DataFrame'>
     Index: 225 entries, 1 to 269
     Data columns (total 2 columns):
          Column
                                 Non-Null Count Dtype
     --- -----
                                 _____
          Country of Citizenship 225 non-null
                                                object
          Total SEVIS IDS
                                 225 non-null
                                                 int64
     dtypes: int64(1), object(1)
     memory usage: 5.3+ KB
[22]: type(bigger_df['Total SEVIS IDS'].values[0])
[22]: str
[23]: type(non_null['Total SEVIS IDS'].values[0])
[23]: numpy.int64
[24]: fig = px.choropleth(
         non_null,
         locations='Country of Citizenship', # Column specifying the country names
         locationmode='country names',
         color='Total SEVIS IDS', # Column specifying the population
         color_continuous_scale='Viridis', # Color scale
         labels={'Total SEVIS IDS': 'Total SEVIS IDS'}, # Labels for hover_
      ⇒information
         title='World SEVIS IDS' # Title of the plot
     fig.update_geos(showcoastlines=True) # Display coastlines
     fig.show()
```



```
[25]: non_null.head()
[25]: 0
                  Country of Citizenship Total SEVIS IDS
                                   CHINA
      1
                                                    324196
      2
                                   INDIA
                                                    297151
      3 REPUBLIC OF KOREA (SOUTH KOREA)
                                                     62617
                                  CANADA
                                                     41392
      5
                                  BRAZIL
                                                     37904
[26]: | non_china = non_null.drop(1)
      fig = px.choropleth(
         non_china,
          locations='Country of Citizenship', # Column specifying the country names
          locationmode='country names',
          color='Total SEVIS IDS', # Column specifying the population
          color_continuous_scale='Viridis', # Color scale
          labels={'Total SEVIS IDS': 'Total SEVIS IDS'}, # Labels for hover_
       \hookrightarrow information
          title='World SEVIS IDS' # Title of the plot
      fig.update_geos(showcoastlines=True) # Display coastlines
      fig.show()
```



```
Total SEVIS IDS
200k
100k
```

```
[27]: non_china_non_india = non_null.drop([1, 2])

fig = px.choropleth(
    non_china_non_india,
    locations='Country of Citizenship', # Column specifying the country names
    locationmode='country names',
    color='Total SEVIS IDS', # Column specifying the population
```

```
color_continuous_scale='Viridis', # Color scale
labels={'Total SEVIS IDS': 'Total SEVIS IDS'}, # Labels for hover

information
title='World SEVIS IDS' # Title of the plot
)

fig.update_geos(showcoastlines=True) # Display coastlines

fig.show()
```





```
[28]: finding_india = non_null[non_null['Country of Citizenship'].str.

contains('India', case=False)]
finding_india
```

```
[28]: 0 Country of Citizenship Total SEVIS IDS
2 INDIA 297151
243 BASSAS DA INDIA 10
252 BRITISH INDIAN OCEAN TERRITORY 4
```

[29]: 0 Country of Citizenship Total SEVIS IDS 252 BRITISH INDIAN OCEAN TERRITORY 4