Selectivity of ACC and Big 10 Universities

The **ACC** and **Big 10** athletic conferences encompass a variety of universities, from large public institutions to prestigious private schools. Each university has its own degree of selectivity – how difficult it is for the average applicant to gain admission.

An index that combines each school's admission rate and average SAT score sheds light on the true selectivity of these universities.
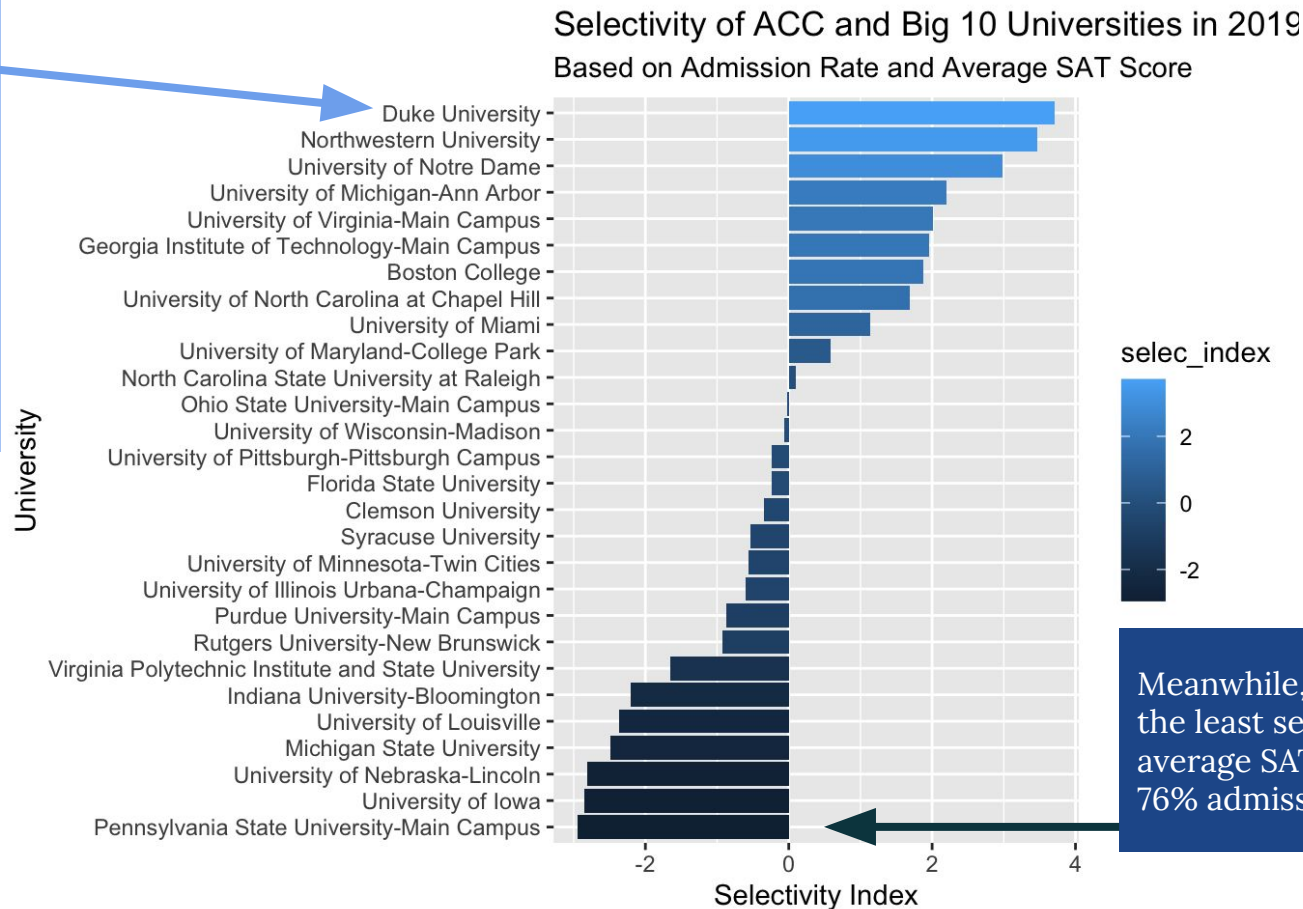
```
college_data <- college_data %>%
  mutate(selec_index = 1*sat_avg_stnd - 1*adm_rate_stnd)
```

```
college_data <- college_data %>% group_by(year)
```

```
  %>% mutate(selec_rank = dense_rank(desc(selec_index)))
```

Here are the top 10 most selective ACC and Big 10 schools in 2020 using this index!

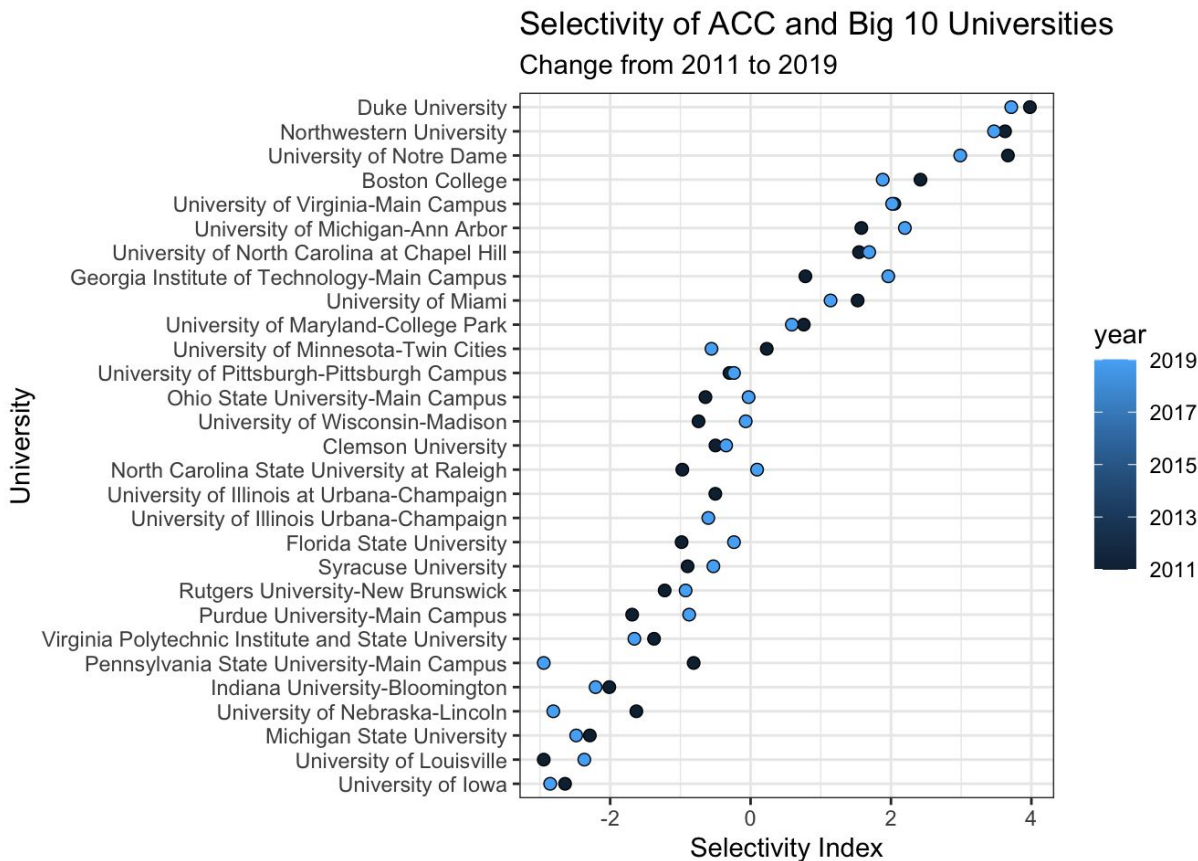| instnm	sat_avg	adm_rate	selec_index[,1]	selec_rank
<chr>	<dbl>	<dbl>	<dbl>	<int>
Duke University	1530	0.0774	3.75	1
Northwestern University	1505	0.0931	3.41	2
University of Notre Dame	1489	0.190	2.83	3
Georgia Institute of Techn…	1465	0.213	2.46	4
University of Michigan–Ann…	1445	0.261	2.04	5
University of Virginia–Mai…	1426	0.226	1.98	6
Boston College	1433	0.264	1.90	7
University of North Caroli…	1393	0.25	1.52	8
University of Miami	1354	0.331	0.748	9
University of Maryland–Col…	1391	0.510	0.401	10

Some ACC and Big 10 universities are among the **hardest schools in the country** to get into, while others accept the majority of their applicants.

According to our ranking, Duke was the most selective ACC or Big 10 school in 2019, with an average SAT score of 1530 and an admission rate of about 8%.

Meanwhile, Penn State was the least selective, with an average SAT of 1201 and a 76% admission rate.

Selectivity of ACC and Big 10 Universities in 2019
Based on Admission Rate and Average SAT Score

How have the schools' selectivities changed over time?

Selectivity of ACC and Big 10 Universities
Change from 2011 to 2019

We can compare each school's selectivity index value in 2011 to 2019 and see that many schools have **gotten more selective**, while others became **less selective** or stayed **about the same**.

For example, **Georgia Tech** and **NC State** got notably more selective, while **Penn State** got much less selective and **Pitt** stayed almost exactly the same.