# Assignment 1

## Profit by R&D Spend colored by State

**State**
- California
- Florida
- New York

R&D Spend (y-axis values, top to bottom):
0, 1,000.23, 15,506.73, 22,177.74, 27,892.92, 28,754.33, 44,069.95, 46,426.07, 61,136.38, 63,408.86, 65,605.48, 67,532.63, 73,994.56, 76,263.86, 78,013.11, 86,419.7, 91,992.39, 94,667.16, 101,913.08, 119,943.24, 123,334.88, 131,876.9, 142,107.34, 153,441.61, 165,349.2

**Profit (Sum)** ④

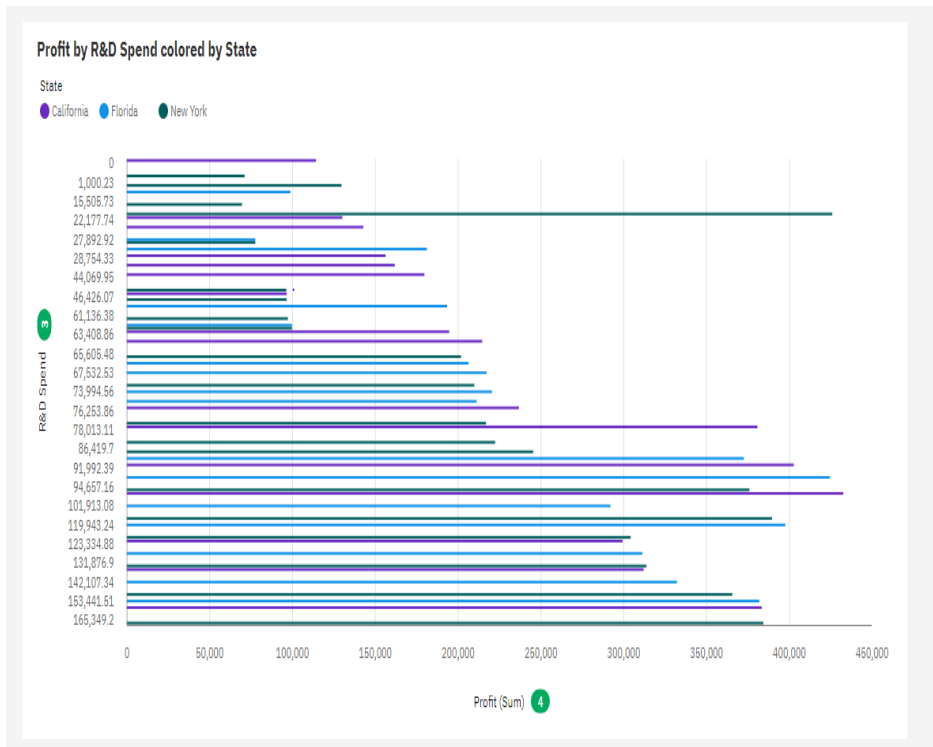x-axis: 0, 50,000, 100,000, 150,000, 200,000, 250,000, 300,000, 350,000, 400,000, 450,000

### Details

For **Profit,** the most significant value of **State** is New York, whose respective **Profit** values add up to almost 4.4 million, or 35.9 % of the total.

For **Profit,** the most significant values of **R&D Spend** are 100671.96, 20229.59, and 93863.75, whose respective **Profit** values add up to nearly 1.3 million, or 10.5 % of the total.

Across all **r&d spends** and **states,** the sum of **Profit** is over 12 million.

The summed values of **Profit** range from nearly 70 thousand to nearly 433 thousand.
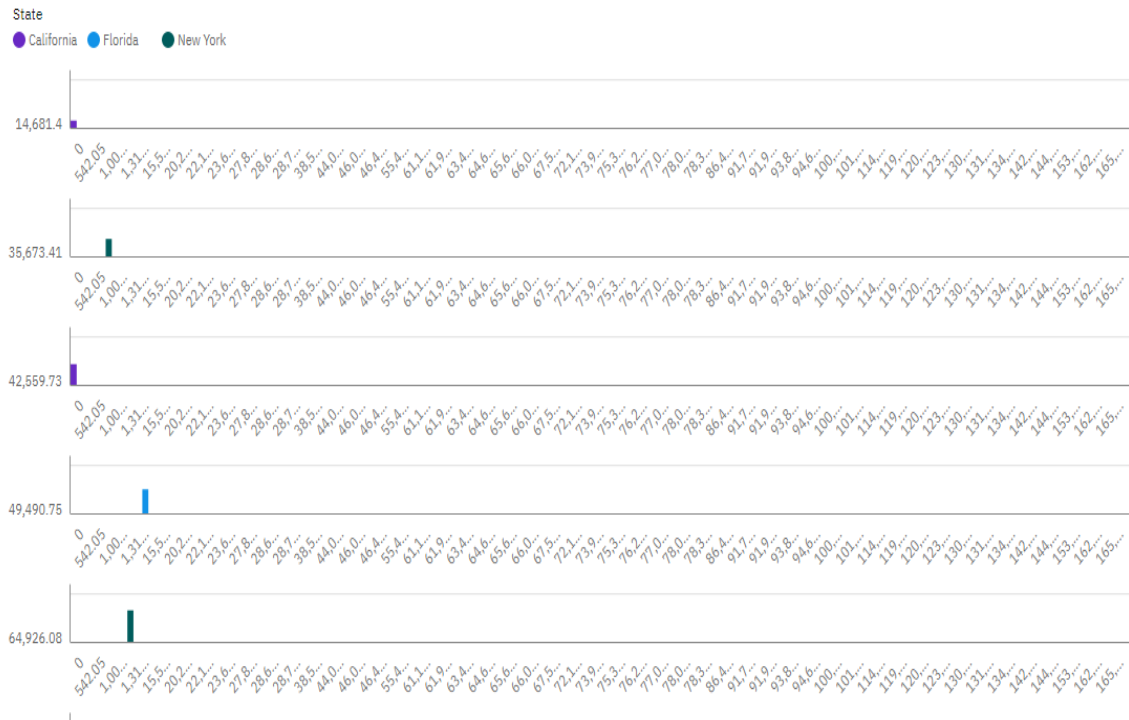
## R&D Spend compared to Administration with State minimum ⑦

- R&D Spend (Sum)
- State (Count distinct)
- Administration (Sum)

y-axis values: 103,282.38, 96,778.92, 78,239.91, 69,758.98, 49,490.75
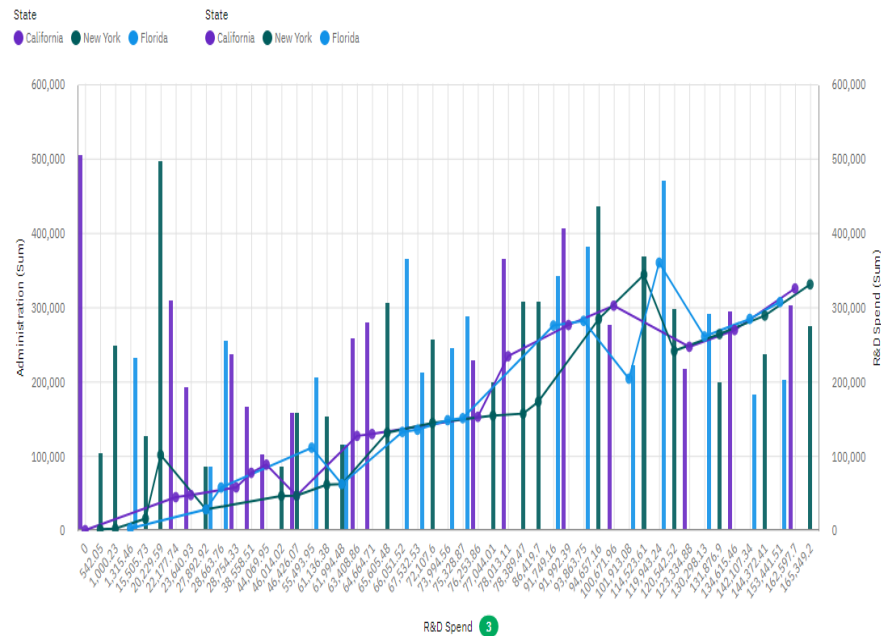
### Details

Over all **profits,** the sum of **R&D Spend** is nearly 8.1 million.

**R&D Spend** ranges from 0, when **Profit** is 42559.73, to nearly 360 thousand, when **Profit** is 132602.65.

## Profit by R&D Spend colored by State

State
● California ● Florida ● New York



## Administration and R&D Spend for State State and R&D Spend

State
● California ● New York ● Florida

State
● California ● New York ● Florida



R&D Spend ③

## Details

For **Administration,** the most significant values of **R&D Spend** are 0, 20229.59, 119943.24, and 94657.16, whose respective **Administration** values add up to over 1.9 million, or 14.5 % of the total.

For **Administration,** the most significant value of **State** is New York, whose respective **Administration** values add up to nearly 4.8 million, or 36.2 % of the total.
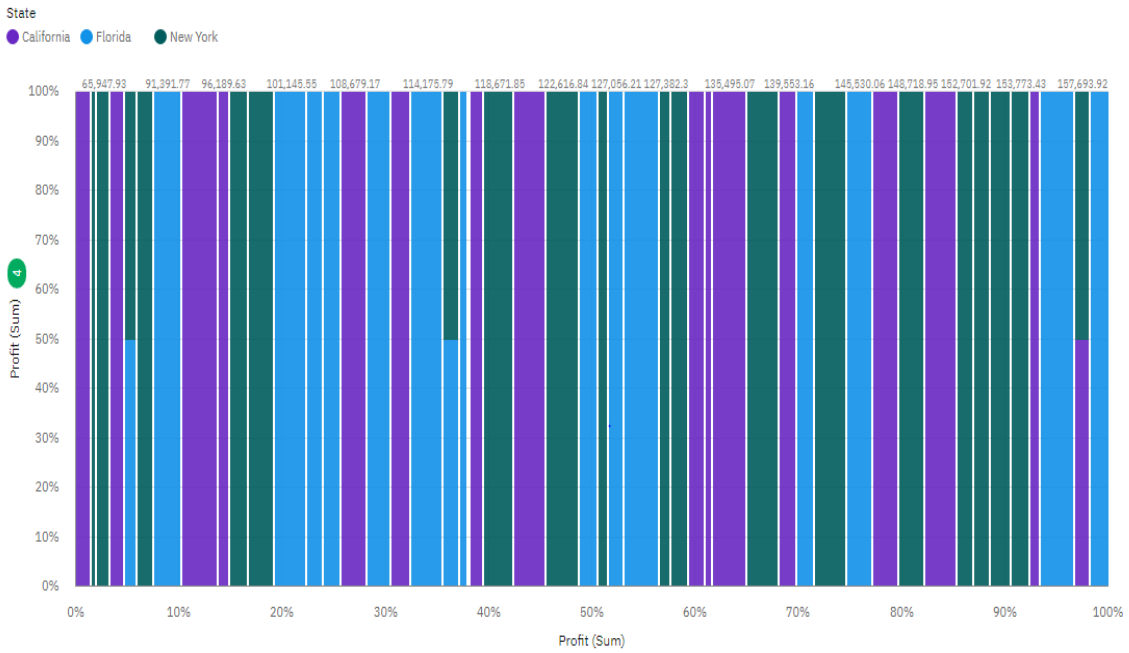
Across all **r&d spends** and **states,** the sum of **Administration** is over 13 million.

The summed values of **Administration** range from almost 85 thousand to almost 505 thousand.

For **R&D Spend,** the most significant value of **R&D Spend** is 119943.24, whose respective **R&D Spend** values add up to nearly 360 thousand, or 4.4 % of the total.

Over all **r&d spends** and **states,** the sum of **R&D Spend** is almost 8.1 million.

# Profit for Administration colored by State

State
● California ● Florida ● New York



65,947.93  91,391.77  96,189.63  101,145.55  108,679.17  114,175.79  118,671.85  122,616.84  127,056.21  127,382.3  135,495.07  139,553.16  145,530.06  148,718.95  152,701.92  153,773.43  157,693.92

Profit (Sum)

# Profit by Administration colored by Marketing Spend ⑤

Marketing Spend (...
0    943,868.2