

# Baby Birth in 2000

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STAT 184 Final Project

# The Data Set

Github 538 data catalog

“Births” - US Births from 2000-2014

1	year	month	date_of_month	day_of_week	births
2	2000	1	1	6	9083
3	2000	1	2	7	8006
4	2000	1	3	1	11363
5	2000	1	4	2	13032
6	2000	1	5	3	12558
7	2000	1	6	4	12466
8	2000	1	7	5	12516
9	2000	1	8	6	8934
10	2000	1	9	7	7949
11	2000	1	10	1	11668
12	2000	1	11	2	12611
13	2000	1	12	3	12398
14	2000	1	13	4	11815
15	2000	1	14	5	12180

# Why we chose it/ first thoughts?

This dataset has a lot of data to use.

We are filtering the year 2000 for our project and will compare to other years when relevant.

# Potential Questions

What was the most common month to be born in 2000? (Months 1-12)

What was the most common day of the week to be born in 2000? (Sunday-Saturday)

Most common date of the month? (Date 1st-31st)

What was the most common holiday to be born on? (calendar official holidays) Barchart to compare holidays and find the most avoided ones

Most common date to be born in general in 2000? (MM/DD/YEAR)

Compare to 2009 check birth rate and trends

# What was the most common month to be born in 2000?

What info we can get from the answer?

- We can get a good idea of when most couples prefer to give birth
- Good application for hospitals and healthcare providers to know when OB-GYN professionals may be needed more

What visualization we'd like to make to accompany it?

- Visualization doesn't seem too necessary; however, a line graph would help to compare the months as well

# What was the most common day of the week to be born in 2000?

What info we can get from the answer?

- Given the day of the week that appears to have the greatest number of births, hospitals are able to be more prepared (staffing, machinery, etc.) on a given day

What visualization we'd like to make to accompany it?

- Bar Chart / Pie Chart

# Most common date of the month?

What info we can get from the answer?

- We can see if there is a significant spike on certain days
- See if there is a recognizable pattern

What visualization we'd like to make to accompany it?

- Stacked line graph

# Most common date to be born on in 2000?

What info we can get from the answer?

- We can look for a cluster of dates that appear to have a spike in births, and search for potential reasoning from our findings
- By identifying confounding variables, we could see how this compares to data today

What visualization we'd like to make to accompany it?

- Line graph, but could be found through raw queries



# What was the most common holiday to be born on?

What info we can get from the answer?

What days are the most avoided? Many mothers will try to give birth if possible the day before or after a major holiday.

What visualization we'd like to make to accompany it?

Bar Graph will help us see which holidays are the most avoided

# How did the Great Recession impact births following 2008?

What info we can get from the answer?

We will filter the year 2009 and compare it to 2000 to see if there is a difference in birth rate when compared to the population. This will help us determine if families were less likely to conceive and give birth in the year following America's economic crisis of 2008.

What visualization we'd like to make to accompany it?

We can compare line graphs of 2000 births and 2009 births to see if any peaks are different. We can also do calculations to see what the birth rate was in each year compared to the total population and see if there was a decrease in 2009.

**Thank you!**