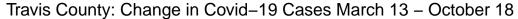
Covid-19: A Look at Texas Cities

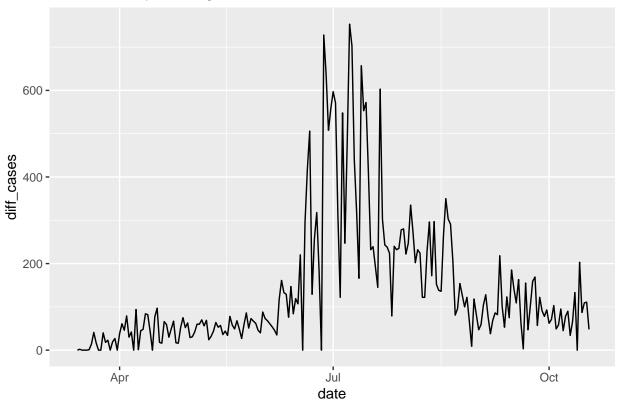
Samuel Higgins

```
library(tidyverse)
## -- Attaching packages ------ tidyverse 1.3.0 --
## v ggplot2 3.3.2 v purrr 0.3.4
## v tibble 3.0.1 v dplyr 1.0.0
## v tidyr 1.1.0 v stringr 1.4.0
## v readr 1.3.1 v forcats 0.5.0
## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag()
                    masks stats::lag()
library(kableExtra)
## Attaching package: 'kableExtra'
## The following object is masked from 'package:dplyr':
##
##
       group_rows
library(ggmap)
## Google's Terms of Service: https://cloud.google.com/maps-platform/terms/.
## Please cite ggmap if you use it! See citation("ggmap") for details.
library(maps)
## Attaching package: 'maps'
## The following object is masked from 'package:purrr':
##
       map
```

```
library(mapdata)
covid <- read.csv("C:/Users/samue/Documents/College Notes/PyRe/Data sets/us-counties.csv")</pre>
glimpse(covid)
## Rows: 644,678
## Columns: 6
        <chr> "2020-01-21", "2020-01-22", "2020-01-23", "2020-01-24", "202...
## $ date
## $ county <chr> "Snohomish", "Snohomish", "Snohomish", "Cook", "Snohomish", ...
## $ state <chr> "Washington", "Washington", "Washington", "Illinois", "Washi...
## $ fips <int> 53061, 53061, 53061, 17031, 53061, 6059, 17031, 53061, 4013,...
txcovid <- covid %>%
 filter(state == "Texas") %>%
 pivot_wider(names_from = state, values_from = county) %>%
 rename(county_tx = Texas)
glimpse(txcovid)
## Rows: 48.235
## Columns: 5
## $ date
           <chr> "2020-02-12", "2020-02-13", "2020-02-14", "2020-02-15", "...
           <int> 48029, 48029, 48029, 48029, 48029, 48029, 48029, 48029, 4...
## $ fips
## $ cases
           <int> 1, 2, 2, 2, 2, 2, 2, 2, 2, 4, 4, 4, 10, 10, 10, 10, 11, 1...
## $ county_tx <chr> "Bexar", "Bexar", "Bexar", "Bexar", "Bexar", "Bexar", "Be...
txcovid$date <- as.Date(txcovid$date)</pre>
```

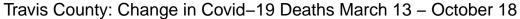
Travis County

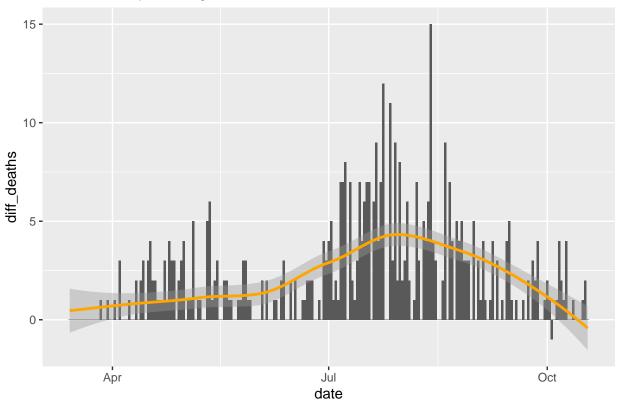




```
# Difference of Covid-19 deaths over time for Travis County
txcovid_travis %>%
   ggplot(aes(x = date, y = diff_deaths)) +
   geom_bar(stat = "identity") +
   stat_smooth(color = "orange") +
   ggtitle("Travis County: Change in Covid-19 Deaths March 13 - October 18")
```

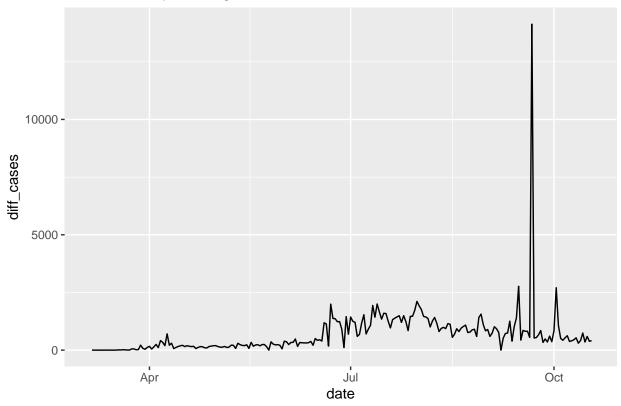
- ## 'geom_smooth()' using method = 'loess' and formula 'y ~ x'
- ## Warning: Removed 1 rows containing non-finite values (stat_smooth).
- ## Warning: Removed 1 rows containing missing values (position_stack).





Harris County

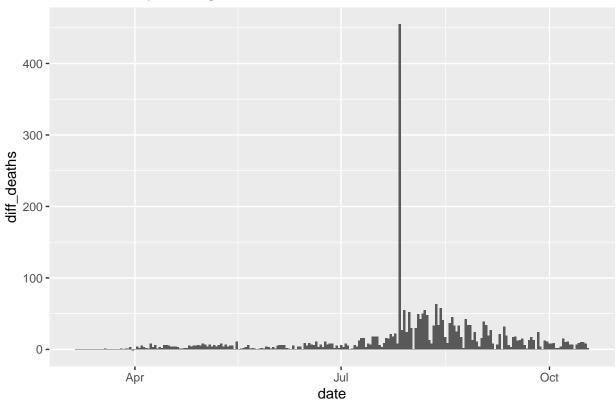
Harris County: Change in Covid-19 Cases March 5 - October 18



```
# Difference of Covid-19 deaths over time for Harris County
txcovid_harris %>%
    ggplot(aes(x = date, y = diff_deaths)) +
    geom_bar(stat = "identity") +
    ggtitle("Harris County: Change in Covid-19 Deaths March 5 - October 18")
```

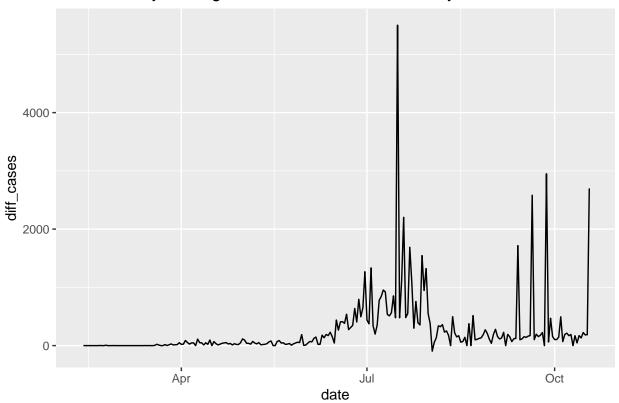
Warning: Removed 1 rows containing missing values (position_stack).

Harris County: Change in Covid-19 Deaths March 5 - October 18



Bexar County

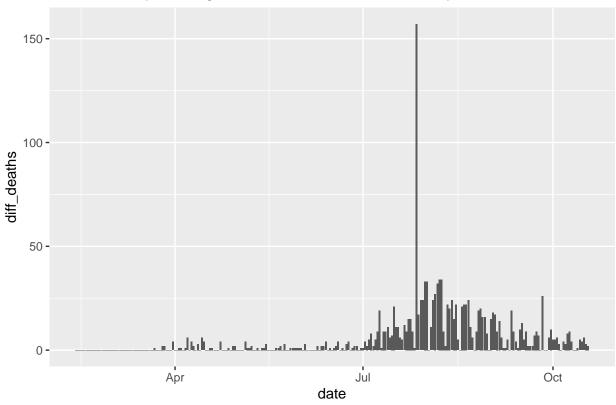
Bexar County: Change in Covid-19 Cases February 12 - October 18



```
# Difference of Covid-19 deaths over time for Bexar County
txcovid_bexar %>%
   ggplot(aes(x = date, y = diff_deaths)) +
   geom_bar(stat = "identity") +
   ggtitle("Bexar County: Change in Covid-19 Deaths February 12 - October 18")
```

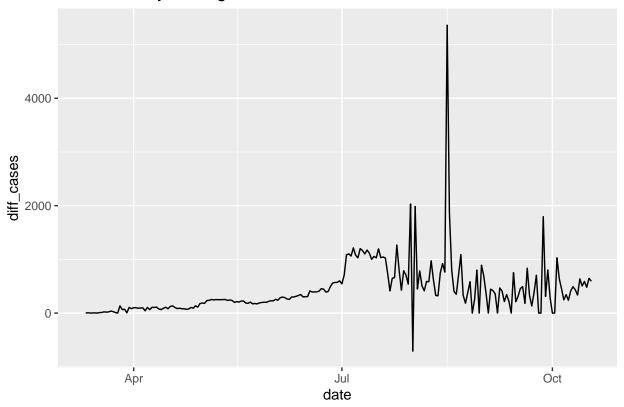
Warning: Removed 1 rows containing missing values (position_stack).

Bexar County: Change in Covid-19 Deaths February 12 - October 18



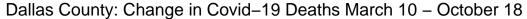
Dallas County

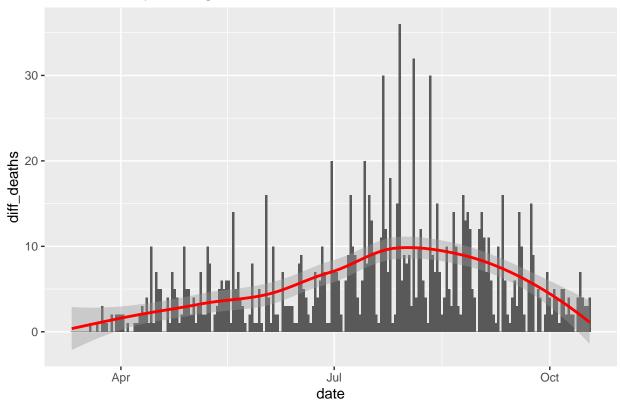
Dallas County: Change in Covid-19 Cases March 10 - October 18



```
# Difference of Covid-19 deaths over time for Dallas County
txcovid_dallas %>%
  ggplot(aes(x = date, y = diff_deaths)) +
  geom_bar(stat = "identity") +
  stat_smooth(color = "red") +
  ggtitle("Dallas County: Change in Covid-19 Deaths March 10 - October 18")
```

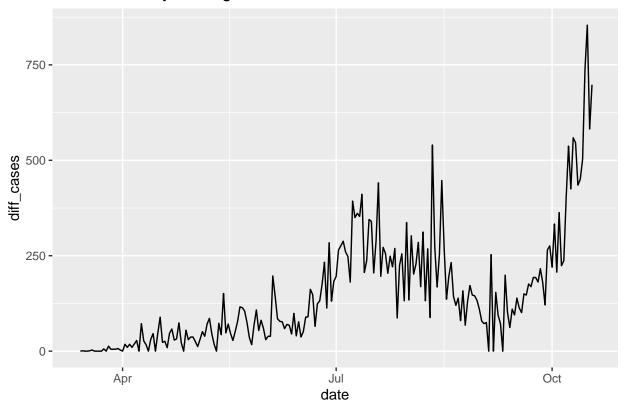
- ## 'geom_smooth()' using method = 'loess' and formula 'y \sim x'
- ## Warning: Removed 1 rows containing non-finite values (stat_smooth).
- ## Warning: Removed 1 rows containing missing values (position_stack).





El Paso County

El Paso County: Change in Covid-19 Cases March 13 - October 18

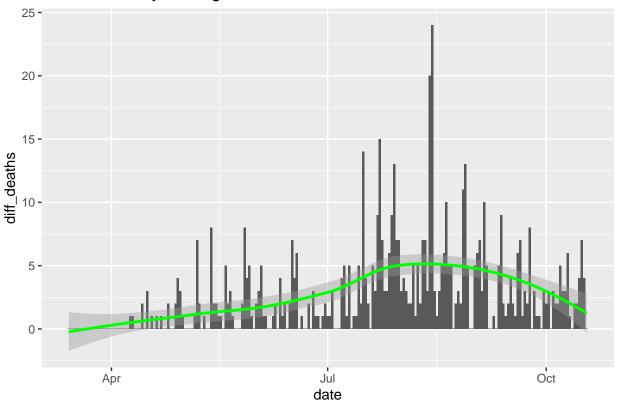


```
# Difference of Covid-19 deaths over time for El Paso County
txcovid_elpaso %>%
    ggplot(aes(x = date, y = diff_deaths)) +
    geom_bar(stat = "identity") +
    stat_smooth(color = "green") +
    ggtitle("El Paso County: Change in Covid-19 Deaths March 13 - October 18")
```

```
## 'geom_smooth()' using method = 'loess' and formula 'y ~ x'
```

- ## Warning: Removed 1 rows containing non-finite values (stat_smooth).
- ## Warning: Removed 1 rows containing missing values (position_stack).

El Paso County: Change in Covid-19 Deaths March 13 - October 18



Covid-19 Cases Choropleth Map

```
txcovid_current <- txcovid %>%
  group_by(county_tx, fips) %>%
  summarise(current_cases = max(cases),
            total_deaths = max(deaths)) %>%
  na.omit
## 'summarise()' regrouping output by 'county_tx' (override with '.groups' argument)
glimpse(txcovid_current)
## Rows: 253
## Columns: 4
## Groups: county_tx [253]
## $ county_tx
                  <chr> "Anderson", "Andrews", "Angelina", "Aransas", "Archer...
## $ fips
                   <int> 48001, 48003, 48005, 48007, 48009, 48011, 48013, 4801...
## $ current_cases <int> 2909, 547, 2753, 341, 114, 18, 1254, 507, 264, 179, 1...
## $ total_deaths <int> 38, 10, 88, 18, 1, 1, 35, 9, 5, 8, 31, 2, 37, 96, 138...
```

```
states <- map_data("state")</pre>
tx_state <- subset(states, region == "texas")</pre>
counties <- map_data("county")</pre>
tx_county <- subset(counties, region == "texas")</pre>
tx_base <- ggplot(data = tx_state, mapping = aes(x = long, y = lat, group = group)) +</pre>
  coord_fixed(1.3) +
  geom_polygon(color = "black", fill = "gray")
remove_axis <- theme(</pre>
  axis.text = element_blank(),
  axis.line = element_blank(),
  axis.ticks = element_blank(),
 panel.border = element_blank(),
 panel.grid = element_blank(),
 axis.title = element_blank()
capfirst <- function(s){</pre>
  paste(toupper(substring(s, 1, 1)), substring(s, 2), sep = "")
tx_county$subregion <- capfirst(tx_county$subregion)</pre>
covid_map <- left_join(txcovid_current, tx_county, by = c("county_tx" = "subregion"))</pre>
cmap <- tx base +
  geom_polygon(data = covid_map, aes(fill = current_cases), color = "white") +
  geom_polygon(color = "black", fill = NA) +
 theme_bw() +
 remove_axis
cmap2 \leftarrow cmap +
  scale_fill_gradient(low = "#FEDFDF", high = "#FD100F",
                       breaks = c(150000, 125000, 100000, 75000, 50000, 25000),
                       name = "Current Covid-19 Cases")
cmap2
```

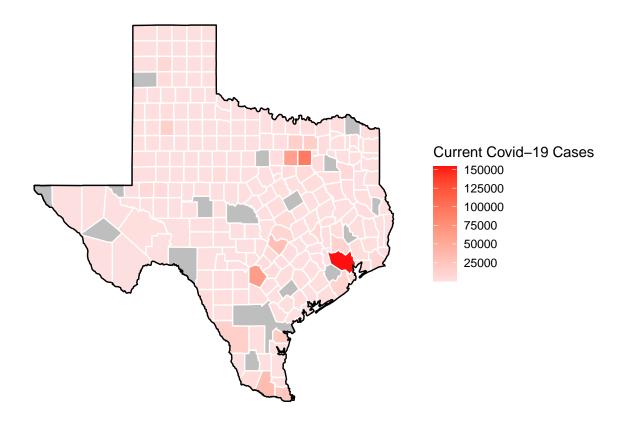


Table of Current Covid-19 Cases and Total Deaths

Table 1: Covid-19 Current Cases and Deaths by County

Anderson 48001 2909 38 Andrews 48003 547 10 Angelina 48005 2753 88 Aransas 48007 341 18 Archer 48009 114 1 Armstrong 48011 18 1 Austin 48015 507 9 Bailey 48017 264 5 Bandera 48019 179 8 Bastrop 48021 1945 31 Baylor 48021 1945 31 Baylor 48023 42 2 Bee 48025 1840 37 Bell 48027 6064 96 Bexar 48029 63340 1381 Blanco 48031 153 6 Boyle 48031 153 6 Boyle 48033 2 0 Boyle 48033 1954 179	county_tx	fips	current cases	total deaths
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Aransas 48007 341 18 Archer 48009 114 1 Armstrong 48011 18 1 Atascosa 48013 1254 35 Austin 48015 507 9 Bailey 48017 264 5 Bandera 48019 179 8 Bastrop 48021 1945 31 Baylor 48023 42 2 Bee 48027 6064 96 Bexar 48029 63340 1381 Blanco 48031 153 6 Borden 48033 2 0 Bosque 48035 385 10 Bowie 48037 1668 74 Brazoria 48039 11954 179 Brazos 48041 8167 65 Brewster 48043 246 5 Briscoe 48045 18 1 <t< td=""><td>Andrews</td><td>48003</td><td>547</td><td>10</td></t<>	Andrews	48003	547	10
Aransas 48007 341 18 Archer 48009 114 1 Armstrong 48011 18 1 Atascosa 48013 1254 35 Austin 48015 507 9 Bailey 48017 264 5 Bandera 48019 179 8 Bastrop 48021 1945 31 Baylor 48023 42 2 Bee 48027 6064 96 Bexar 48029 63340 1381 Blanco 48031 153 6 Borden 48033 2 0 Bosque 48035 385 10 Bowie 48037 1668 74 Brazoria 48039 11954 179 Brazos 48041 8167 65 Brewster 48043 246 5 Brown 48043 246 5 <tr< td=""><td>Angelina</td><td>48005</td><td>2753</td><td>88</td></tr<>	Angelina	48005	2753	88
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Armstrong 48011 18 1 Atascosa 48013 1254 35 Austin 48015 507 9 Bailey 48017 264 5 Bandera 48019 179 8 Bastrop 48021 1945 31 Baylor 48023 42 2 Bee 48025 1840 37 Bell 48027 6064 96 Bexar 48029 63340 1381 Blanco 48031 153 6 Borden 48033 2 0 Bosque 48035 385 10 Bowie 48037 1668 74 Brazoria 48039 11954 179 Brazoria 48039 11954 179 Brazos 48041 8167 655 Brewster 48043 246 5 Briscoe 48045 18 1	Archer	48009	114	1
Atascosa 48013 1254 35 Austin 48015 507 9 Bailey 48017 264 5 Bandera 48019 179 8 Bastrop 48021 1945 31 Baylor 48023 42 2 Bee 48025 1840 37 Bell 48027 6064 96 Bexar 48029 63340 1381 Blanco 48031 153 6 Borden 48033 2 0 Bosque 48035 385 10 Bowie 48037 1668 74 Brazoria 48039 11954 179 Brazos 48041 8167 65 Brewster 48043 246 5 Briscoe 48045 18 1 Brooks 48047 350 23 Brown 48049 932 33	Armstrong		18	1
Bailey 48017 264 5 Bandera 48019 179 8 Bastrop 48021 1945 31 Baylor 48023 42 2 Bee 48025 1840 37 Bell 48027 6064 96 Bexar 48029 63340 1381 Blanco 48031 153 6 Borden 48033 2 0 Bosque 48035 385 10 Bowie 48037 1668 74 Brazoria 48039 11954 179 Brazos 48041 8167 65 Brewster 48043 246 5 Briscoe 48045 18 1 Brooks 48047 350 23 Brown 48049 932 33 Burnet 48051 4804 12 Caldwell 48051 480 1		48013	1254	35
Bandera 48019 179 8 Bastrop 48021 1945 31 Baylor 48023 42 2 Bee 48025 1840 37 Bell 48027 6064 96 Bexar 48029 63340 1381 Blanco 48031 153 6 Borden 48033 2 0 Bosque 48035 385 10 Bowie 48037 1668 74 Brazos 48041 8167 65 Brewster 48043 246 5 Briscoe 48045 18 1 Brooks 48047 350 23 Brown 48049 932 33 Burleson 48051 420 6 Burnet 48053 854 12 Calwell 48055 1681 37 Calloun 48057 879 9	Austin	48015	507	9
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Callahan 48059 110 4 Cameron 48061 23709 1066 Camp 48063 383 13 Carson 48065 49 0 Cass 48067 461 21 Castro 48069 287 6 Chambers 48071 1497 19 Cherokee 48073 1611 31 Childress 48075 91 0 Clay 48077 97 2 Cochran 48079 81 1 Coke 48081 84 4 Coleman 48083 84 4 Collin 48085 16937 171 Collingsworth 48087 19 0 Colorado 48089 498 4 Comal 48091 3642 120 Comanche 48093 343 5 Concho 48095 140 2 Cooke 48097 505 7				
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Camp 48063 383 13 Carson 48065 49 0 Cass 48067 461 21 Castro 48069 287 6 Chambers 48071 1497 19 Cherokee 48073 1611 31 Childress 48075 91 0 Clay 48077 97 2 Cochran 48079 81 1 Coke 48081 84 4 Coleman 48083 84 4 Collin 48085 16937 171 Collingsworth 48087 19 0 Colorado 48089 498 4 Comal 48091 3642 120 Comanche 48093 343 5 Concho 48095 140 2 Cooke 48097 505 7				1066
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county_tx	fips	current_cases	total_deaths
San Patricio	48409	1549	79
San Saba	48411	110	0
Schleicher	48413	55	2
Scurry	48415	957	11
Shackelford	48417	34	0
Shelby	48419	538	30
Sherman	48421	72	1
Smith	48423	5765	124
Somervell	48425	154	5
Starr	48427	3870	179
Stephens	48429	151	4
Sterling	48431	11	0
Stonewall	48433	18	1
Sutton	48435	95	3
Swisher	48437	131	3
Tarrant	48439	59274	783
Taylor	48441	3814	62
Terrell	48443	4	0
Terry	48445	440	6
Throckmorton	48447	16	2
Titus	48449	1527	35
Tom Green	48451	4290	74
Travis	48453	30956	445
Trinity	48455	200	7
Tyler	48457	252	4
Upshur	48459	456	12
Upton	48461	40	3
Uvalde	48463	819	36
Val Verde	48465	2384	124
Van Zandt	48467	829	28
Victoria	48469	4193	97
Walker	48471	3855	61
Waller	48473	948	15
Ward	48475	156	2
Washington	48477	692	48
Webb	48479	14669	337
Wharton	48481	1415	58
Wheeler	48483	59	0
Wichita	48485	2861	26
Wilbarger	48487	281	3
Willacy	48489	1224	55
Williamson	48491	9327	150
Wilson	48493	977	28
Winkler	48495	130	4
Wise	48497	848	15
Wood	48499	590	34
Yoakum	48501	284	5
Young	48503	470	6
Zapata	48505	342	6
Zavala	48507	488	18
<u> </u>	40001	400	10