

# Exploratory Data Analysis of COVID-19 Cases 23 March 2020

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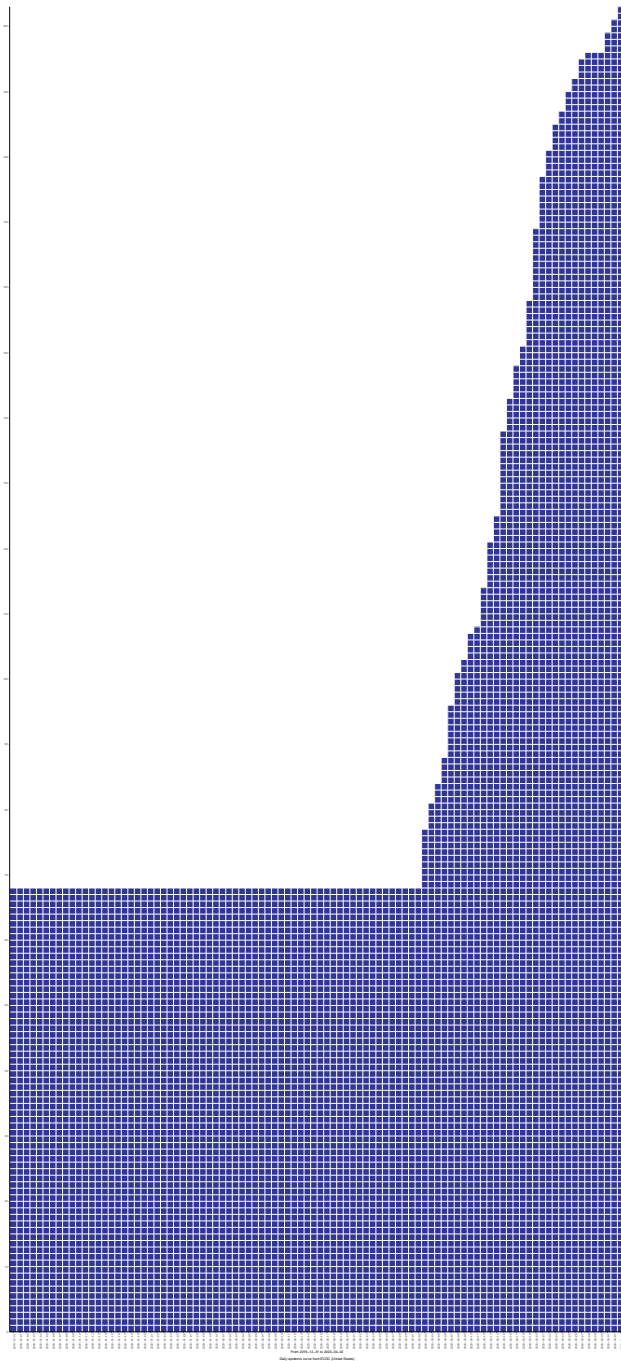
## **Loading data**

Here I load in data from the projects from which I have collected and cleaned data:

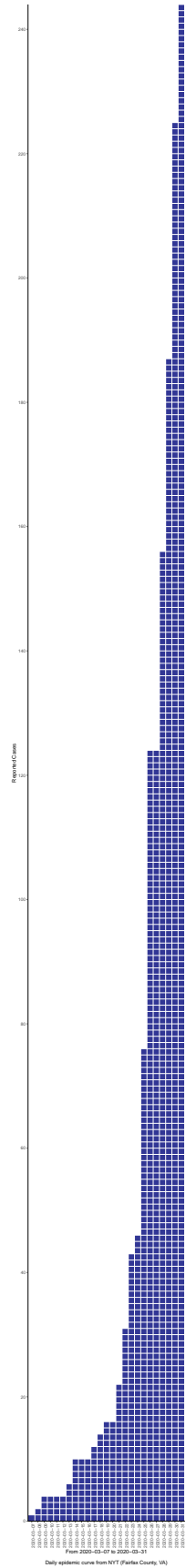
Our World in Data's ECDC data New York Times data

## **Cases by source**

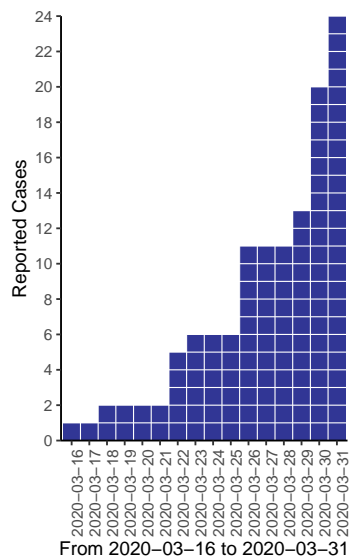
Cases reported in United States by European Centers for Disease Control (OWD)



Cases reported by NYT in Fairfax County, VA

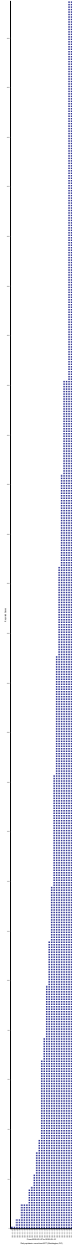


Cases reported by NYT in Stafford County, VA

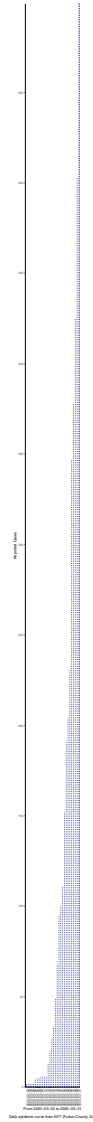


Daily epidemic curve from NYT (Stafford County, VA)

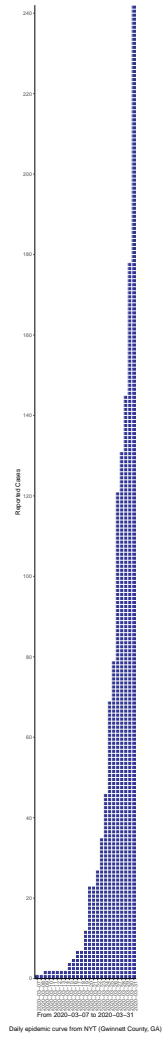
Cases reported by NYT in Washington DC



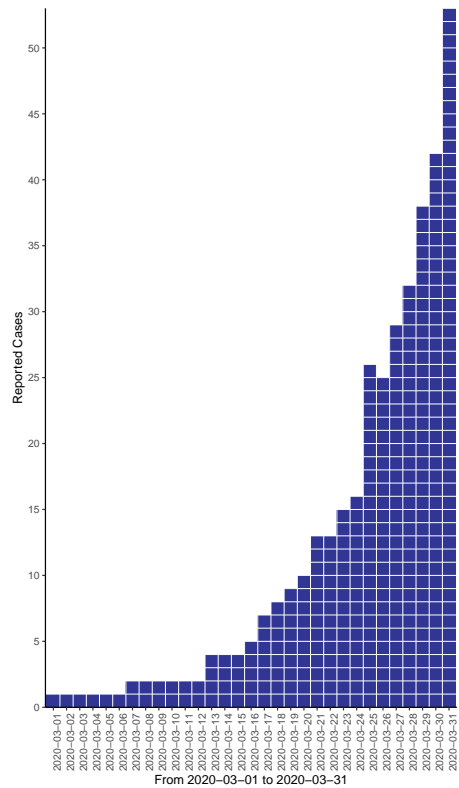
Cases reported by NYT in Fulton County, GA



Cases reported by NYT in Gwinnett County, GA

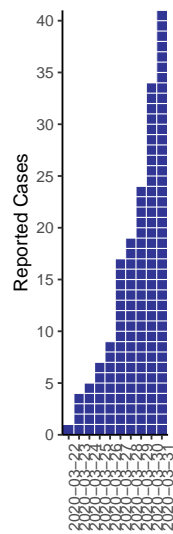


Cases reported by NYT in Manatee County, FL



Daily epidemic curve from NYT (Manatee County, FL)

Cases reported by NYT in Madison County, NY

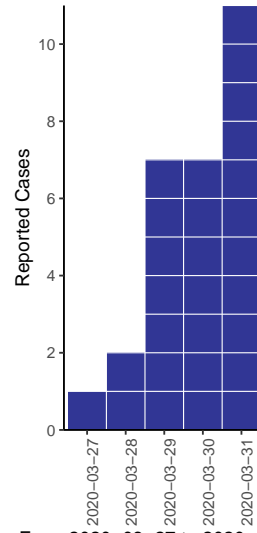


From 2020-03-22 to 2020-03-31

Daily epidemic curve from NYT (Madison County, NY)

Cases reported by NYT in Taylor County, TX

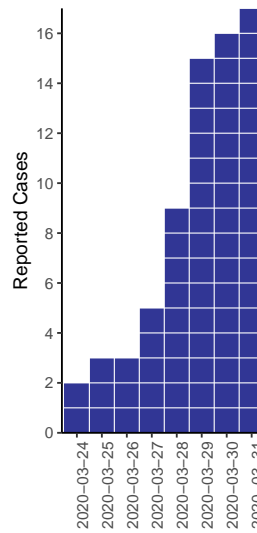




From 2020-03-27 to 2020-03-31

Daily epidemic curve from NYT (Taylor County, TX)

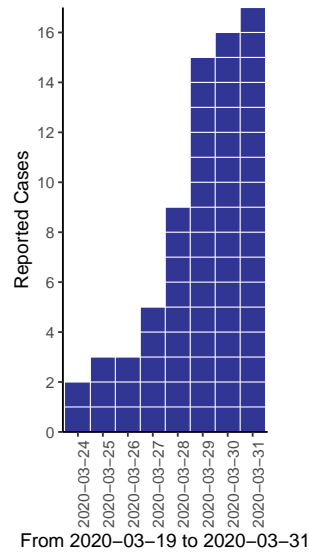
Cases reported by NYT in Randolph County, NC



From 2020-03-24 to 2020-03-31

Daily epidemic curve from NYT (Randolph County, NC)

Cases reported by NYT in Genesee County, MI



Daily epidemic curve from NYT (Genesee County, MI)

## Session information and References

```
## [1] "Thu Apr  2 10:28:34 2020"

## R version 3.6.3 (2020-02-29)
## Platform: x86_64-pc-linux-gnu (64-bit)
## Running under: Debian GNU/Linux 9 (stretch)
##
## Matrix products: default
## BLAS:   /usr/lib/openblas-base/libblas.so.3
## LAPACK: /usr/lib/libopenblas-r0.2.19.so
##
## locale:
##  [1] LC_CTYPE=en_US.UTF-8      LC_NUMERIC=C
##  [3] LC_TIME=en_US.UTF-8      LC_COLLATE=en_US.UTF-8
##  [5] LC_MONETARY=en_US.UTF-8  LC_MESSAGES=en_US.UTF-8
##  [7] LC_PAPER=en_US.UTF-8     LC_NAME=C
##  [9] LC_ADDRESS=C             LC_TELEPHONE=C
## [11] LC_MEASUREMENT=en_US.UTF-8 LC_IDENTIFICATION=C
##
## attached base packages:
## [1] stats      graphics  grDevices  utils      datasets  methods   base
##
## other attached packages:
##  [1] RColorBrewer_1.1-2 EpiCurve_2.2-1   timeDate_3043.102 scales_1.1.0
##  [5] ISOweek_0.6-2      assertr_2.7      here_0.1         knitr_1.28
##  [9] forcats_0.5.0      stringr_1.4.0    dplyr_0.8.5      purrr_0.3.3
## [13] readr_1.3.1        tidyr_1.0.2      tibble_3.0.0     ggplot2_3.3.0
## [17] tidyverse_1.3.0
##
## loaded via a namespace (and not attached):
##  [1] Rcpp_1.0.4          lubridate_1.7.4    lattice_0.20-40   assertthat_0.2.1
```

```

## [5] rprojroot_1.3-2 digest_0.6.25 R6_2.4.1 cellranger_1.1.0
## [9] backports_1.1.5 reprex_0.3.0 evaluate_0.14 httr_1.4.1
## [13] pillar_1.4.3 rlang_0.4.5 readxl_1.3.1 rstudioapi_0.11
## [17] rmarkdown_2.1 munsell_0.5.0 broom_0.5.5 compiler_3.6.3
## [21] modelr_0.1.6 xfun_0.12 pkgconfig_2.0.3 htmltools_0.4.0
## [25] tidyselect_1.0.0 bookdown_0.18 fansi_0.4.1 crayon_1.3.4
## [29] dbplyr_1.4.2 withr_2.1.2 grid_3.6.3 nlme_3.1-145
## [33] jsonlite_1.6.1 gtable_0.3.0 lifecycle_0.2.0 DBI_1.1.0
## [37] pacman_0.5.1 magrittr_1.5 cli_2.0.2 stringi_1.4.6
## [41] farver_2.0.3 fs_1.3.2 xml2_1.2.5 ellipsis_0.3.0
## [45] generics_0.0.2 vctrs_0.2.4 tools_3.6.3 glue_1.3.2
## [49] hms_0.5.3 yaml_2.2.1 colorspace_1.4-1 rvest_0.3.5
## [53] haven_2.2.0

```