Exploratory Data Analysis of COVID-19 Cases 23 March 2020
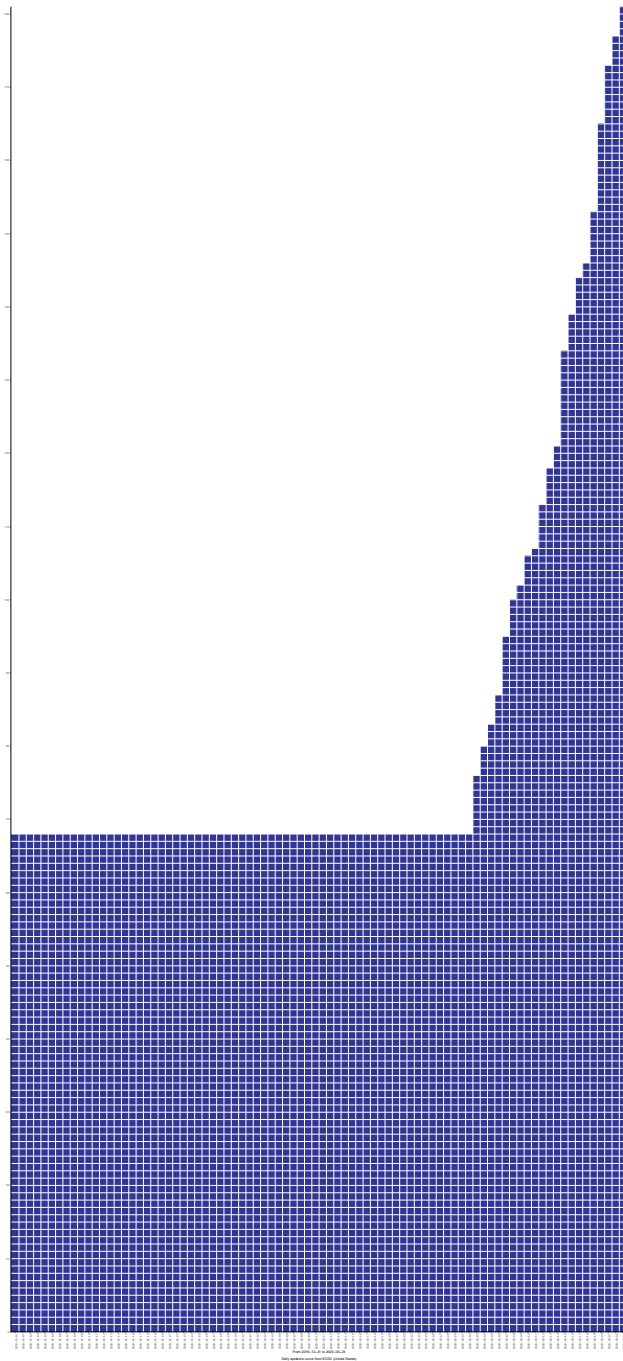
Jessica Randall

Loading data

Here I load in data from the projects from which I have collected and cleaned data:
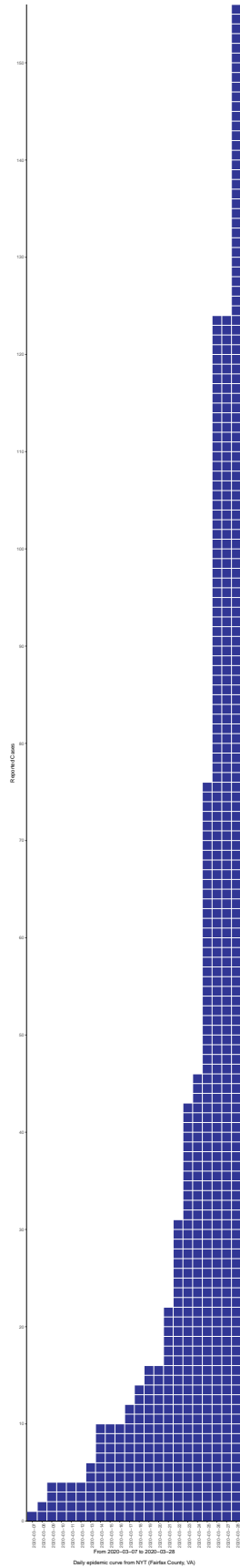
Our World in Data's ECDC data New York Times data
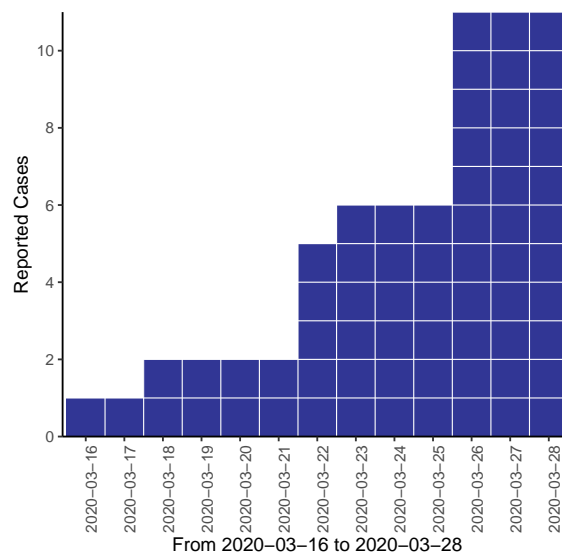
Cases by source

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

Cases reported by NYT in Fairfax County, VA

Reported Cases

From 2020-03-07 to 2020-03-28

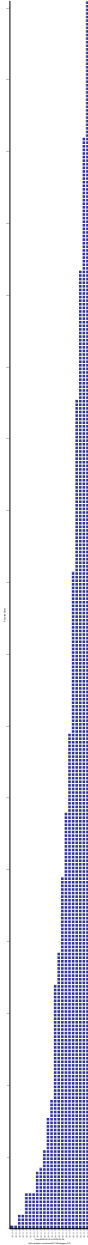Daily epidemic curve from NYT (Fairfax County, VA)

3

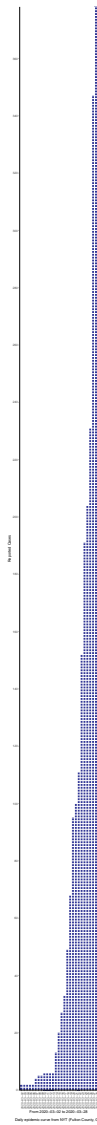Cases reported by NYT in Stafford County, VA

Daily epidemic curve from NYT (Stafford County, VA)
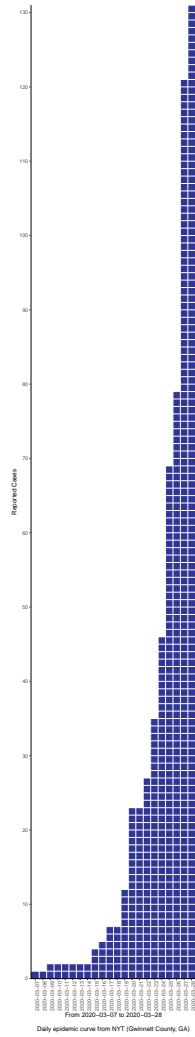
Cases reported by NYT in Washington DC

Cases reported by NYT in Fulton County, GA

Cases reported by NYT in Gwinnett County, GA

Reported Cases

From 2020-03-07 to 2020-03-28

Daily epidemic curve from NYT (Gwinnett County, GA)

Cases reported by NYT in Manatee County, FL
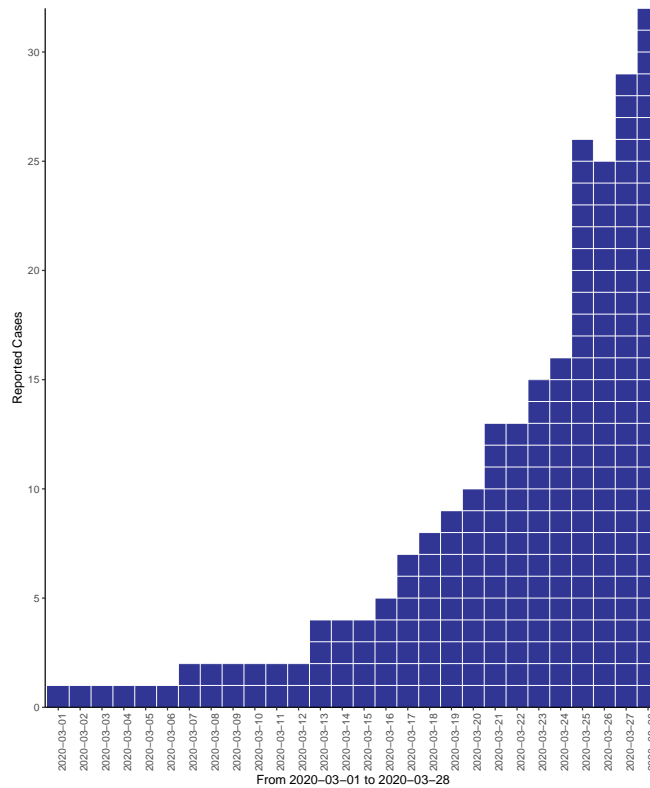
Daily epidemic curve from NYT (Manatee County, FL)

Cases reported by NYT in Madison County, NY
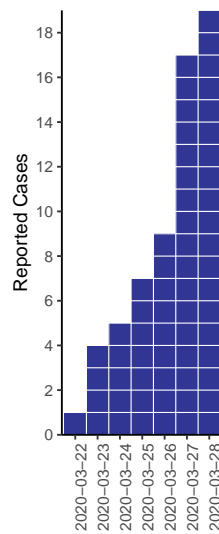
Daily epidemic curve from NYT (Madison County, NY)

Cases reported by NYT in Taylor County, TX

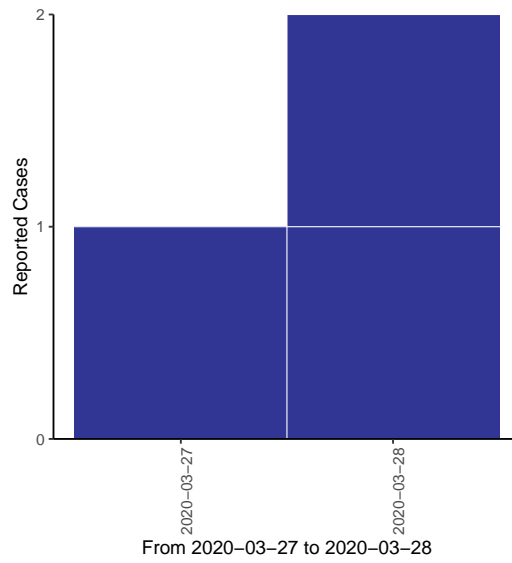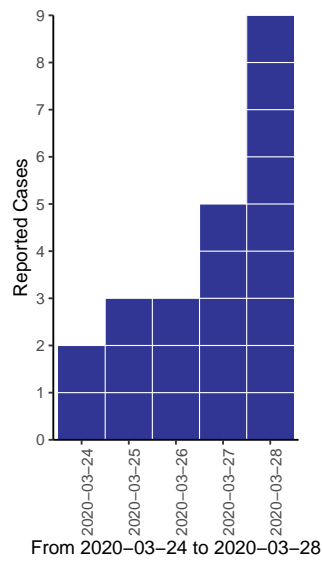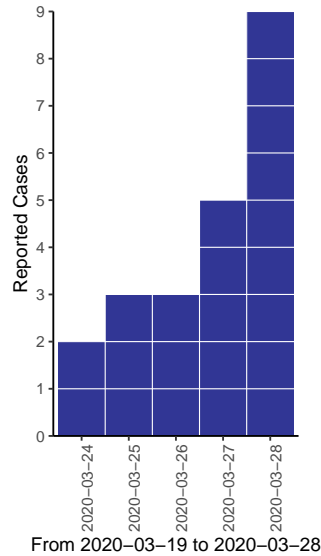Daily epidemic curve from NYT (Taylor County, TX)

Cases reported by NYT in Randolph County, NC

Daily epidemic curve from NYT (Randolph County, NC)

Cases reported by NYT in Genesee County, MI

From 2020–03–19 to 2020–03–28

Daily epidemic curve from NYT (Genesee County, MI)

Session information and References

```
## [1] "Mon Mar 30 19:23:31 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/libopenblasp-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
```