**Data Sources:**

“VDH-COVID-19-PublicUseDataset-Cases” (last updated 2/3/2021)

<https://data.virginia.gov/Government/VDH-COVID-19-PublicUseDataset-Cases/bre9-aqqr>

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*University of Virginia Weldon Cooper Center, Demographics Research Group. (2020). Virginia Population Estimates. Retrieved from* [*https://demographics.coopercenter.org/virginia-population-estimates*](https://demographics.coopercenter.org/virginia-population-estimates)

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*Latitude, Longitude Map Data for Virginia and its counties is from the `maps` package.*

Original S code by Richard A. Becker, Allan R. Wilks. R version by Ray Brownrigg. Enhancements by Thomas P Minka and Alex Deckmyn. (2018). maps: Draw Geographical Maps. R package version 3.3.0. <https://CRAN.R-project.org/package=maps>

**Code Book:**

`locality` = A list of Virginia localities collected from the “VDH-COVID-19-PublicUseDataset-Cases” and the UVA Weldon Cooper Center Virginia population estimates.

`total\_covid\_deaths` = the total COVID-19 mortalities for the county during 2020. Collected from “VDH-COVID-19-PublicUseDataset-Cases.”

`pct\_of\_total\_death` = this variable was acquired by dividing `total\_covid\_deaths` by the sum of `total\_covid\_deaths` (the count of statewide COVID-19 mortalities for 2020) and multiplying the quotient by 100.

`pct\_of\_total\_pop` = this number was calculated by dividing the “July 1, 2020 Estimate” of the county population by the Virginia “July 1, 2020 Estimate” and multiplying that number by 100. “July 1, 2020 Estimate” was collected from the UVA Weldon Cooper Center Virginia population estimates.

`pct\_diff\_expected\_dist` = this number was calculated by, first, subtracting `pct\_of\_total\_pop` from `pct\_of\_total\_death` and dividing that number by `pct\_of\_total\_pop` and, second, multiplying the quotient by 100.