

# Mask Use

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```
library(readr) # for read_csv
library(knitr) # for kable
library(usmap)
library(tidyverse)

## -- Attaching packages ----- tidyverse 1.3.1 --

## v ggplot2 3.3.5      v dplyr 1.0.7
## v tibble 3.1.2       v stringr 1.4.0
## v tidyr 1.1.3        v forcats 0.5.1
## v purrr 0.3.4

## -- Conflicts ----- tidyverse_conflicts() --
## x dplyr::filter() masks stats::filter()
## x dplyr::lag() masks stats::lag()

myfile <- "https://raw.githubusercontent.com/nytimes/covid-19-data/master/mask-use/mask-use-by-county.csv"

MaskUse <- read_csv(myfile)

##
## -- Column specification -----
## cols(
##   COUNTYFP = col_character(),
##   NEVER = col_double(),
##   RARELY = col_double(),
##   SOMETIMES = col_double(),
##   FREQUENTLY = col_double(),
##   ALWAYS = col_double()
## )

# assigning new column name
colnames(MaskUse)[1] <- "fips"

head(MaskUse)

## # A tibble: 6 x 6
##   fips NEVER RARELY SOMETIMES FREQUENTLY ALWAYS
##   <chr> <dbl> <dbl>      <dbl>      <dbl> <dbl>
## 1 01001 0.053 0.074      0.134      0.295 0.444
## 2 01003 0.083 0.059      0.098      0.323 0.436
## 3 01005 0.067 0.121      0.12       0.201 0.491
## 4 01007 0.02 0.034      0.096      0.278 0.572
## 5 01009 0.053 0.114      0.18       0.194 0.459
## 6 01011 0.031 0.04       0.144      0.286 0.5
```

```
fipsDF <- fips_info(MaskUse$fips)
head(fipsDF)
```

```
##      full abbr      county fips
## 1 Alaska   AK Aleutians West Census Area 02016
## 2 Alaska   AK Aleutians East Borough 02013
## 3 Alaska   AK Kusilvak Census Area 02158
## 4 Alaska   AK Lake and Peninsula Borough 02164
## 5 Alaska   AK Matanuska-Susitna Borough 02170
## 6 Alaska   AK Nome Census Area 02180
```

```
MaskUseDF <- merge(x = MaskUse, y = fipsDF, by = "fips", all = TRUE)
head(MaskUseDF)
```

```
##      fips NEVER RARELY SOMETIMES FREQUENTLY ALWAYS      full abbr      county
## 1 01001 0.053 0.074 0.134 0.295 0.444 Alabama AL Autauga County
## 2 01003 0.083 0.059 0.098 0.323 0.436 Alabama AL Baldwin County
## 3 01005 0.067 0.121 0.120 0.201 0.491 Alabama AL Barbour County
## 4 01007 0.020 0.034 0.096 0.278 0.572 Alabama AL Bibb County
## 5 01009 0.053 0.114 0.180 0.194 0.459 Alabama AL Blount County
## 6 01011 0.031 0.040 0.144 0.286 0.500 Alabama AL Bullock County
```

```
# assigning new column name
```

```
colnames(MaskUseDF)[7] <- "state"
```

```
MaskUseDF <- MaskUseDF %>%
  mutate(county = str_remove_all(county, " County"))
```

```
sum(is.na(MaskUseDF))
```

```
## [1] 0
```

```
write.csv(MaskUseDF, "MaskUse.csv", row.names = FALSE)
```