week11

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Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see https://guarto.org.

Running Code

When you click the **Render** button a document will be generated that includes both content and the output of embedded code. You can embed code like this:

```
— Attaching core tidyverse packages —
                                                                                                                       ---- tidyverse 2.0.0 --

✓ dplyr 1.1.2

                                           ✓ readr
                                                                    2.1.4
✓ forcats 1.0.0

✓ stringr

                                                                      1.5.0

✓ ggplot2 3.4.3

✓ tibble 3.2.1

✓ lubridate 1.9.2

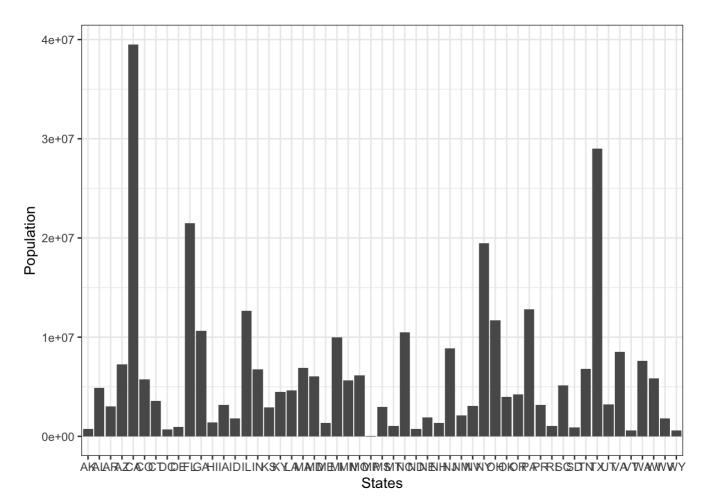
✓ tidyr 1.3.0

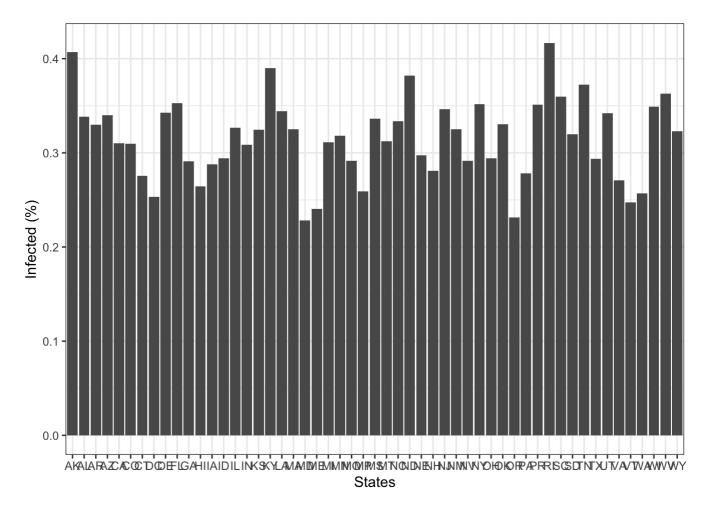
✓ purrr
                        1.0.2
— Conflicts ——
                                                                                                         ——— tidyverse_conflicts() —
* dplyr::filter() masks stats::filter()
* purrr::flatten() masks jsonlite::flatten()
                                        masks stats::lag()
* dplyr::lag()
i Use the conflicted package (<http://conflicted.r-lib.org/>) to force all conflicts
to become errors
Rows: 53
Columns: 25
$ fips
                                                                     <chr> "02", "01", "05", "04", "06", "08", "09...
                                                                     <chr> "US", "US", "US", "US", "US", "US", "US", "US".
$ country
$ state
                                                                     <chr> "AK", "AL", "AR", "AZ", "CA", "CO", "CT...
$ county
                                                                     $ hsa
$ hsaName
                                                                     <chr> "state", "state
$ level
                                                                     $ lat
                                                                     <chr> "iso1:us#iso2:us-ak", "iso1:us#iso2:us-...
$ locationId
$ long
                                                                     $ population
                                                                     <int> 731545, 4903185, 3017804, 7278717, 3951...
$ hsaPopulation
                                                                     <df[,14]> <data.frame[26 x 14]>
$ metrics
                                                                     <df[,6]> <data.frame[26 x 6]>
$ riskLevels
$ cdcTransmissionLevel
                                                                     <int> 2, 4, 3, 3, 1, 4, 4, 1, 4, 4, 2, 3,...
$ communityLevels
                                                                     <df[,2]> <data.frame[26 x 2]>
$ actuals
                                                                     <df[,19]> <data.frame[26 x 19]>
$ annotations
                                                                     <df[,30]> <data.frame[26 x 30]>
                                                                     <chr> "2023-10-30", "2023-10-30", "2023-10...
$ lastUpdatedDate
$ url
                                                                     <chr> "https://covidactnow.org/us/alaska-ak",...
```

- i. What is the population in various states of U.S.A?
- ii. What fraction of the population was infected?
- iii. What fraction of infected persons recovered?
- iv. What fraction of the population is currently vaccinated?
- v. What was the transmission-like in the various states? vi. How did the disease progress since it started?

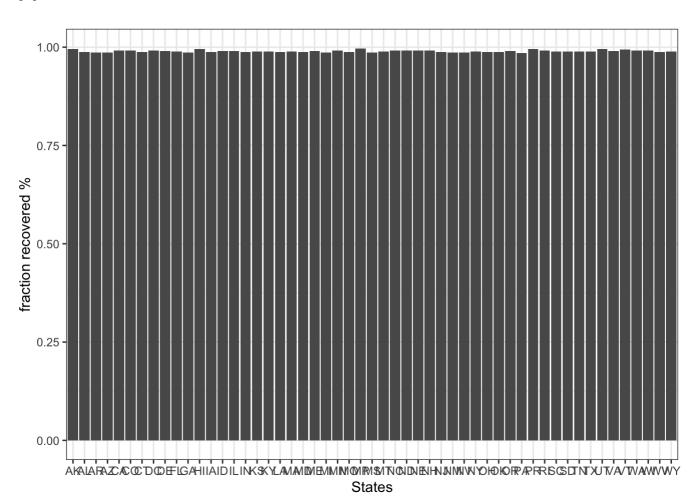
A tibble: 6×6

	Date	Alaska	California	New_Jersey	Tennessee	District_of_Columbia
	<chr></chr>	<int></int>	<int></int>	<int></int>	<int></int>	<int></int>
1	2020-03-01	0	0	0	0	0
2	2020-03-02	0	0	0	0	0
3	2020-03-03	0	0	0	0	0
4	2020-03-04	0	0	0	0	0
5	2020-03-05	0	0	0	0	0
6	2020-03-06	0	0	0	0	0



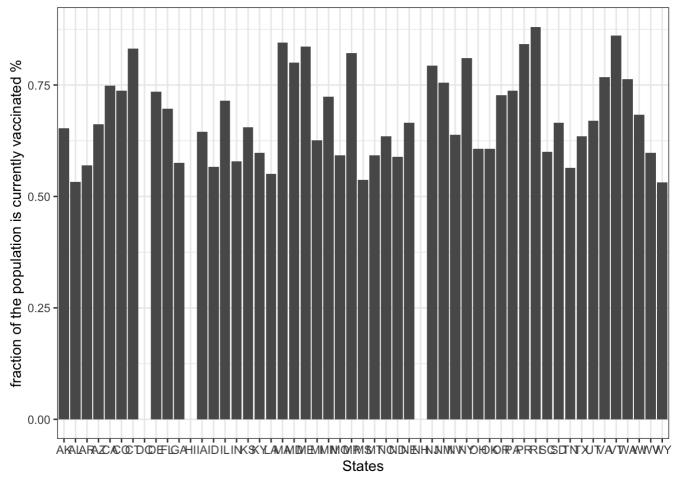


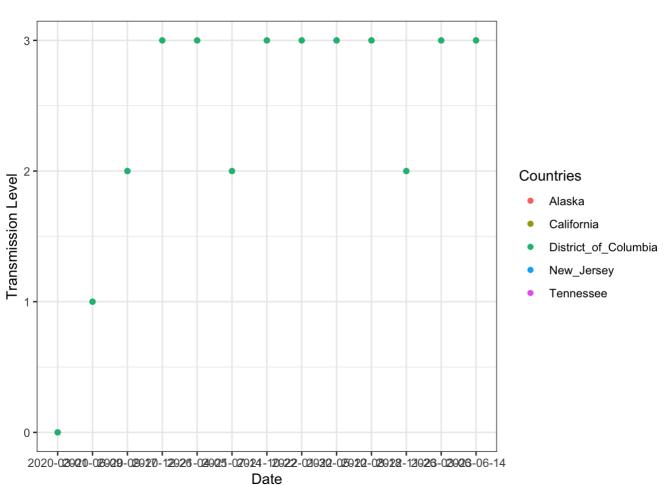
[1] 0.3154977



[1] 0.9896543

Warning: Removed 3 rows containing missing values (`position_stack()`).





Attaching package: 'cowplot'

The following object is masked from 'package:lubridate':

stamp

Warning: Removed 2 rows containing missing values (`geom_point()`).

