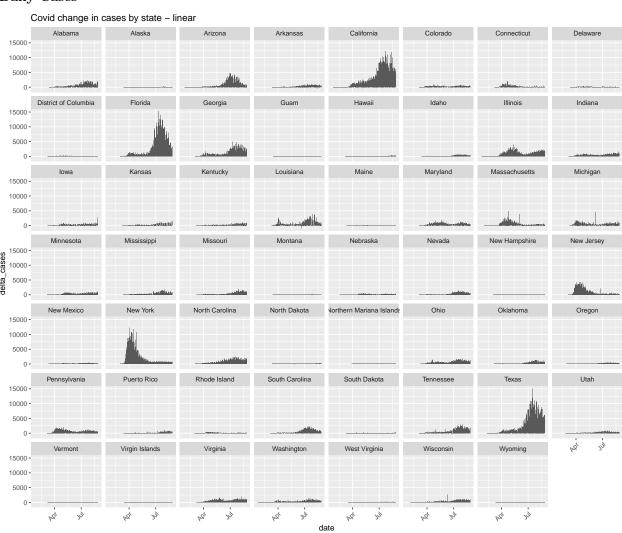
# Change Analysis

Another experiment to look at rate of change. Idea here is to compare the reported change against the cumulative sum.

Last date for states data is 2020-08-27

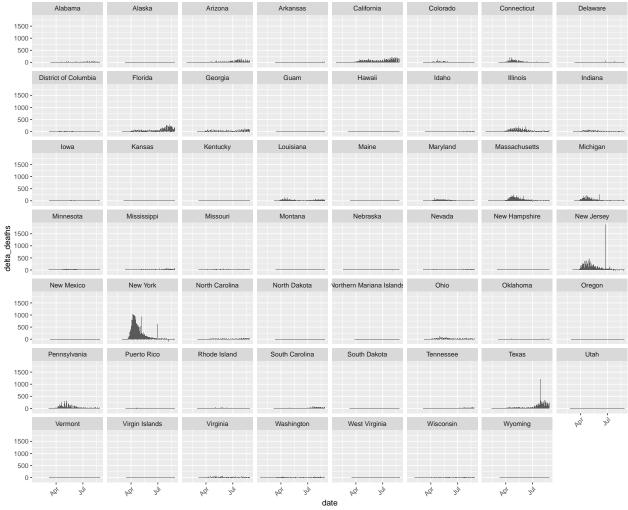
# Extract daily changes

#### Daily Cases



#### Daily Deaths

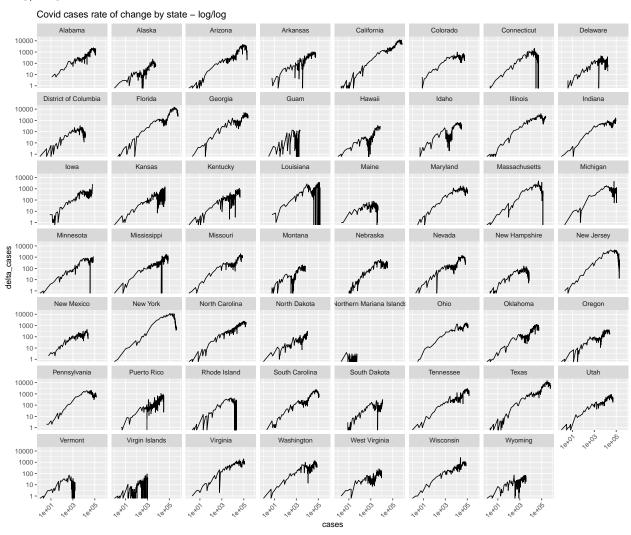




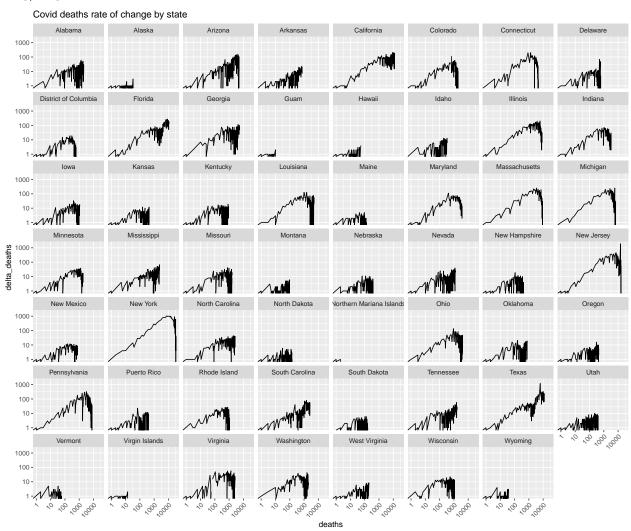
## Log of Change Over Cumulative Sum

Linear values are skewed by higher-magnitude values, so use a log(10) on each axis. this better fits the exponential nature of the data anyway.

## Log/Log of Cases Over Cumulative Sum



#### Log/Log of Deaths over Cumulative Sum



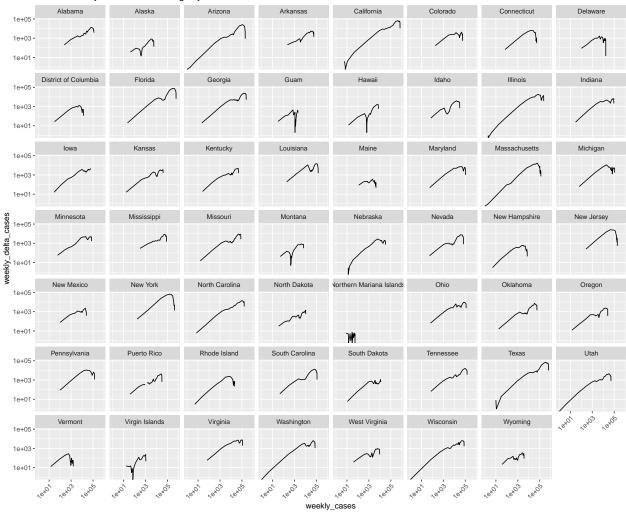
## Weekly Rate of Changes

In order to smooth out the curves in the previous graphs, look at them on a weekly basis.

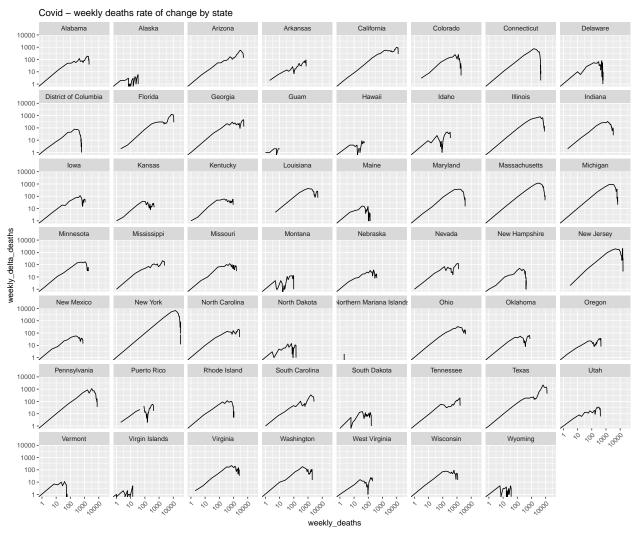
## `summarise()` regrouping output by 'state' (override with `.groups` argument)

#### Weekly Range of Change of Cases by State

Covid - weekly cases rate of change by state



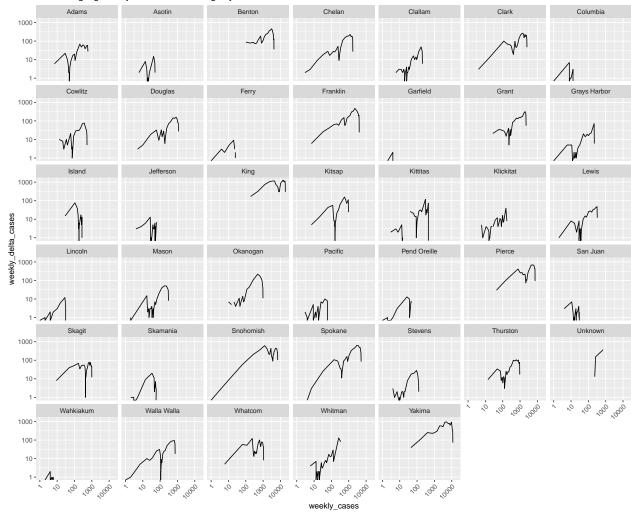
## Weekly Range of Change of Deaths by State

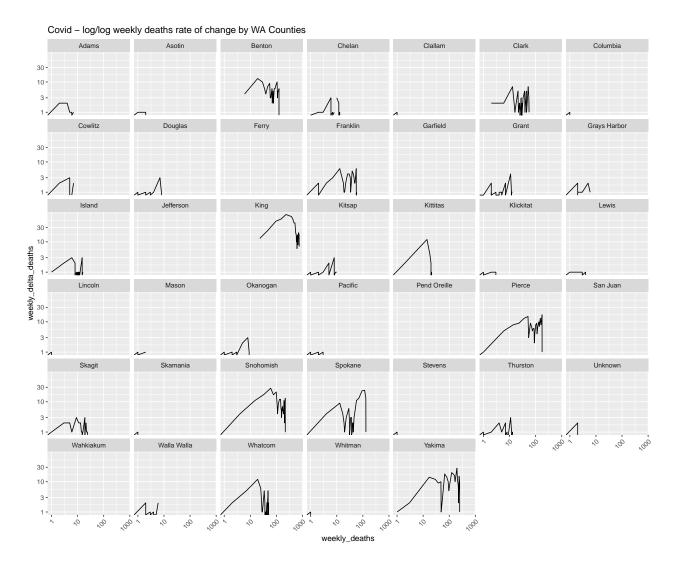


## Washington Counties

## `summarise()` regrouping output by 'county' (override with `.groups` argument)







## California Counties

## `summarise()` regrouping output by 'county' (override with `.groups` argument)

