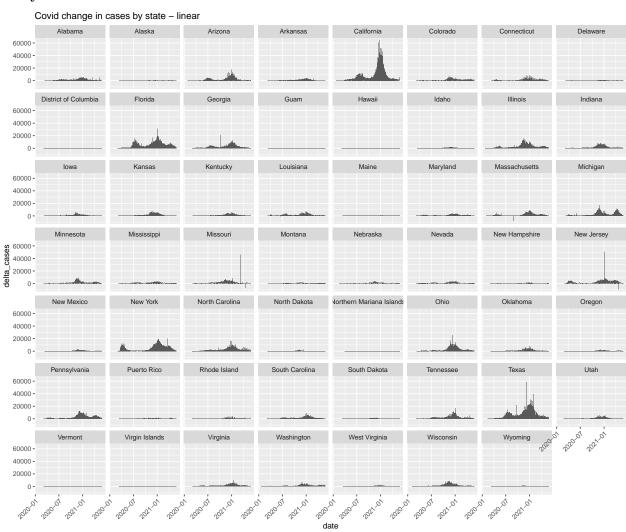
Change Analysis

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

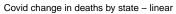
Last date for states data is 2021-05-30

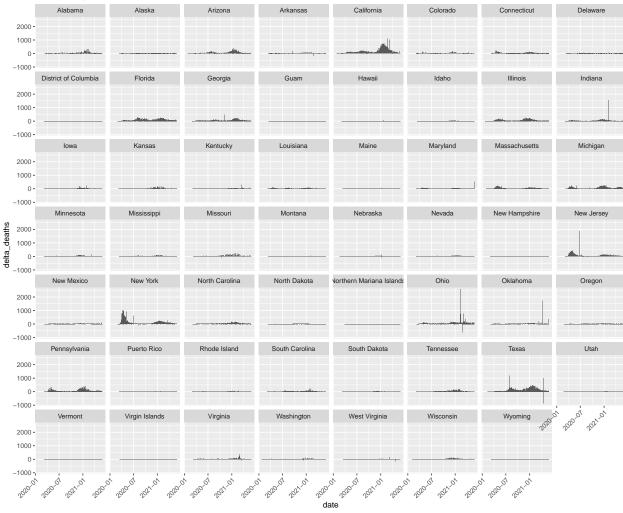
Extract daily changes

Daily Cases



Daily Deaths

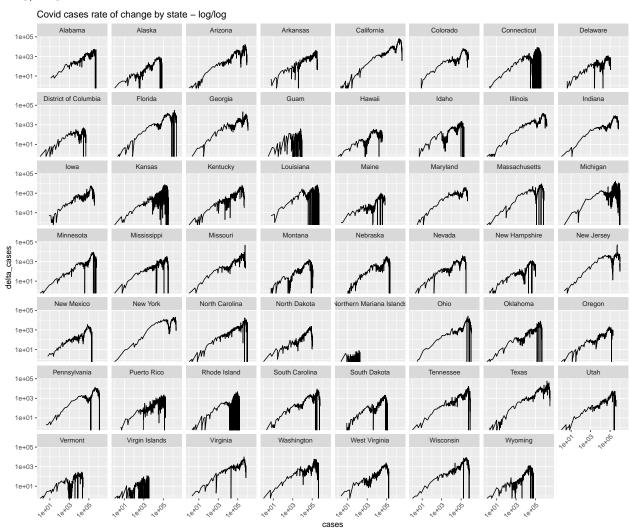




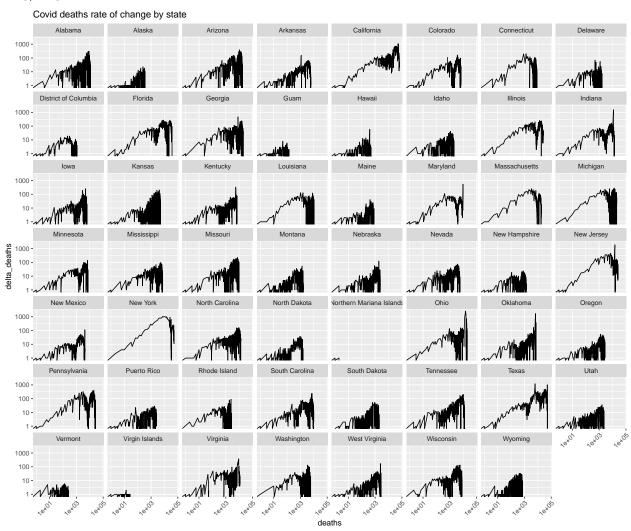
Log of Change Over Cumulative Sum

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.

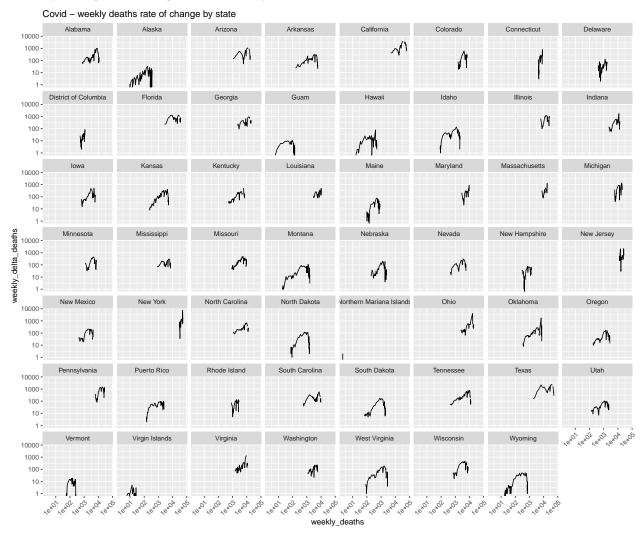
`summarise()` has grouped output by 'state'. You can override using the `.groups` argument.

Weekly Range of Change of Cases by State

Covid – weekly cases rate of change by state



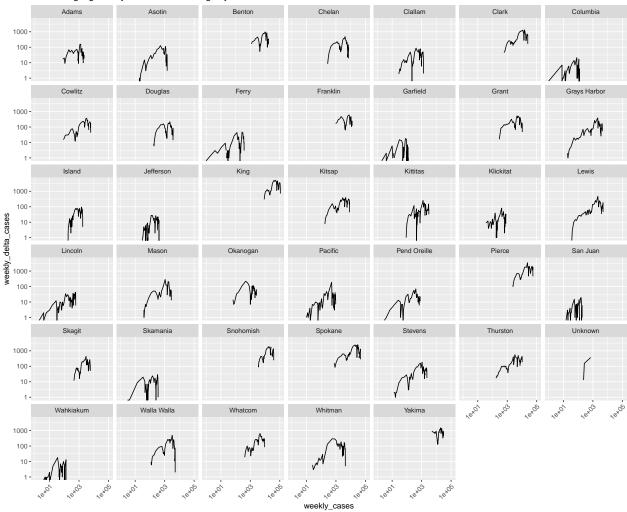
Weekly Range of Change of Deaths by State

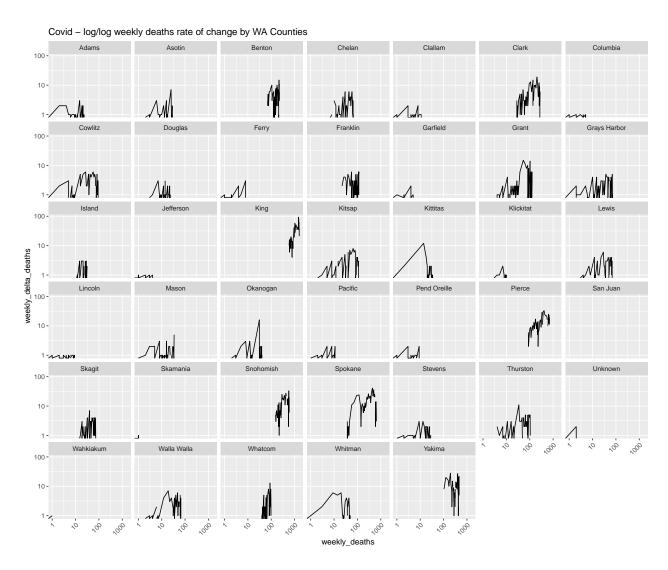


Washington Counties

`summarise()` has grouped output by 'county'. You can override using the `.groups` argument.

Covid – log/log weekly cases rate of change by WA Counties





California Counties

`summarise()` has grouped output by 'county'. You can override using the `.groups` argument.

Covid – log/log weekly cases rate of change by CA Counties

	Alameda	Alpine	Amador	Butte	Calaveras	Colusa	Contra Costa	Del Norte
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1e+05 -	Lake	Lassen	Los Angeles	Madera	Marin	Mariposa	Mendocino	Merced
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1e+05 -	Modoc	Mono	Monterey	Napa	Nevada	Orange	Placer	Plumas
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9 0 1e+05	Riverside	Sacramento	San Benito	San Bernardino	San Diego	San Francisco	San Joaquin	San Luis Obispo
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1e+05 -	San Mateo	Santa Barbara	Santa Clara	Santa Cruz	Shasta	Sierra	Siskiyou	Solano
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weekly_cases								

