

1. Display k-means clustering results

Top 100 Counties in Covid-19 Impact and Cases Growth Trend

[Source Code](#)

The dashboard presents two approaches to cluster/classify counties into groups and the underlying data:

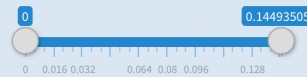
1 K-means clustering results are displayed in the 1st tab;

2 Another approach is to use flexible thresholds at the magnitude of Covid-19 impact and its growth at the county to do customized classifying, please use the below slider to input the cutoff values and rendered results are in the 2nd tab;

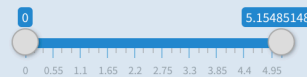
3 Finally, the referred data and grouping results are in the 3rd tab.

—Flex Thresholds—

Impact Contribution Cutoff



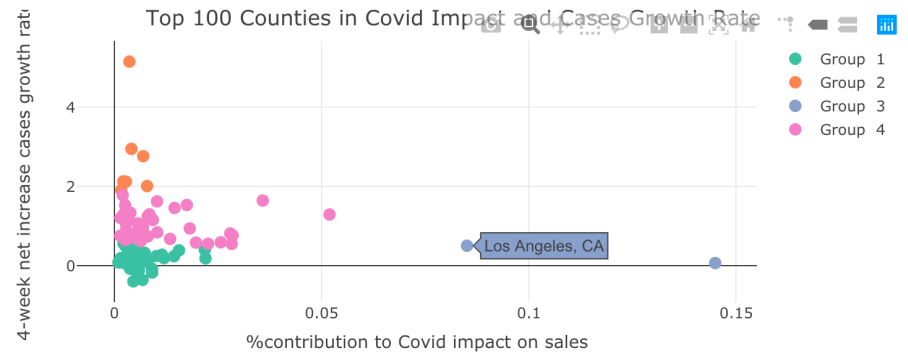
Cases growth rate Cutoff



K-means Clustering

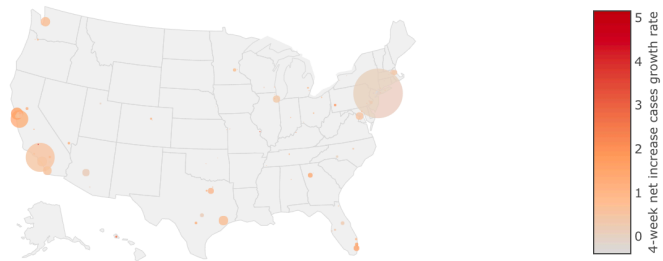
Flex Thresholds

Data



Map

Top 100 Counties in Covid Impact and Cases Growth Rate



2. Use flexible thresholds to do grouping

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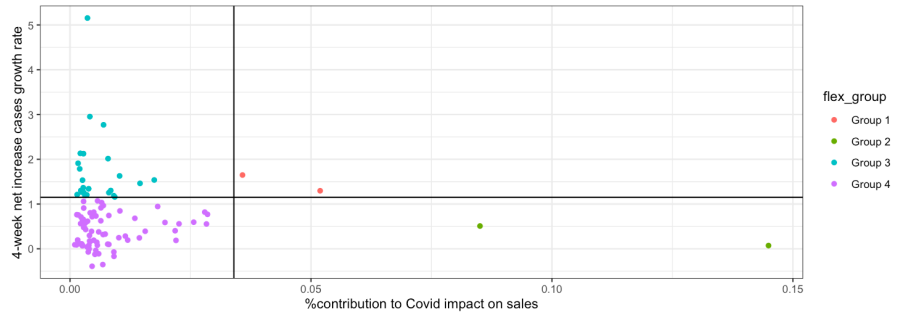
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K-means Clustering

Flex Thresholds

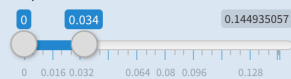
Data

Top 100 Counties in Covid Impact and Cases Growth Rate

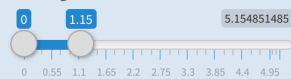


---Flex Thresholds---

Impact Contribution Cutoff

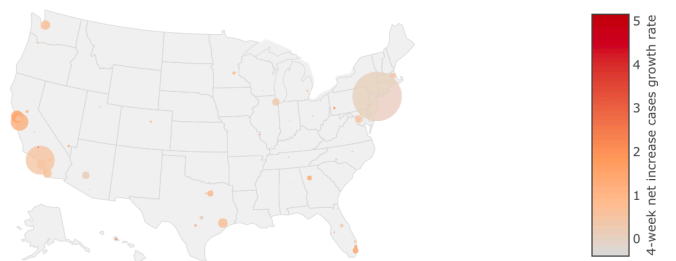


Cases growth rate Cutoff



Map

Top 100 Counties in Covid Impact and Cases Growth Rate



3. Provide data including x, y coordinates and rendered grouping information, GDP and GDP ranking

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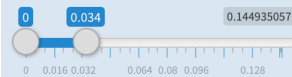
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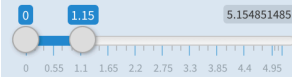
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Impact Contribution Cutoff



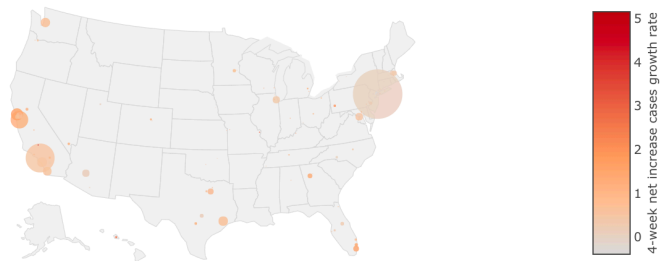
Cases growth rate Cutoff



K-means Clustering	Flex Thresholds	Data				
GeoName	impact_contribution	cases_4wk_growth	cluster	flex_group	GeoFips_n	GDP_2
Maricopa, AZ	2.20%	18.8%	Group 1	Group 4	4013	2207
Cook, IL	2.18%	40.3%	Group 1	Group 4	17031	3620
Suffolk, MA	1.56%	39.2%	Group 1	Group 4	25025	1126
Middlesex, MA	1.44%	24.4%	Group 1	Group 4	25017	1573
Travis, TX	1.20%	19.5%	Group 1	Group 4	48453	1024

Map

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4. Map – color represents the case growth rate, circle size represents the magnitude of impact

