Backward looking reference period of length  $1 \mid mix = 0.9$ 1.00 -0.50 0.25 -1\_study\_variant\_researcher\_page 2\_uk\_johnson\_minister\_prime\_ 3\_vaccine\_trial\_fda\_drug\_auth 4\_mask\_hong\_kong\_wear\_reli 1.00 -0.50 -0.25 -5\_school\_student\_test\_positive 6\_dos\_vaccine\_event\_olympic 7\_fauci\_trump\_say\_dr\_preside 8\_stimulus\_senate\_pelosi\_billion 1.00 Cosine Similarity 0.20 - 0.20 - 0.00 - 0.00 -10\_county\_los\_california\_ange 11\_case\_death\_total\_report\_n 12\_gov\_cuomo\_order\_york\_wi 1.00 -0.50 0.25 -0.00 -13\_test\_hospital\_ventilator\_pa 14\_case\_state\_death\_report\_i 15\_vaccine\_astrazeneca\_dos\_ 16\_will\_travel\_restriction\_coun 1.00 -0.75 0.50 0.25 -

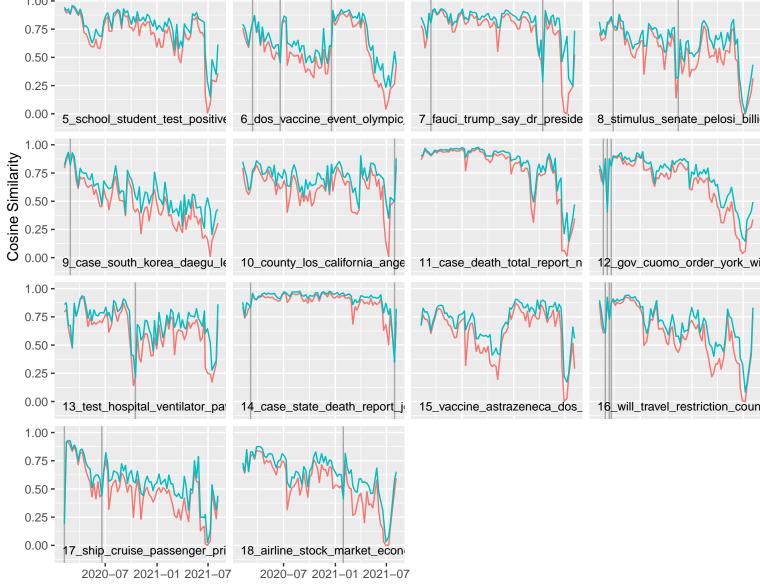
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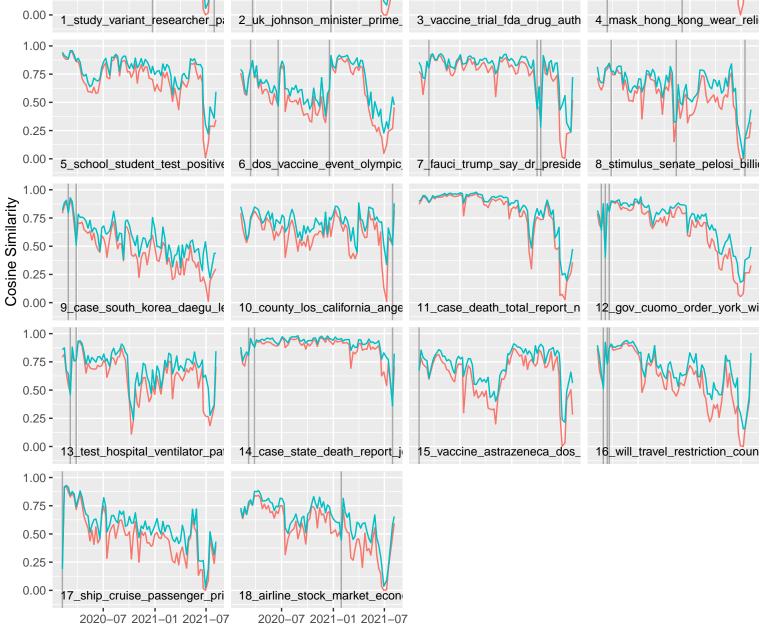
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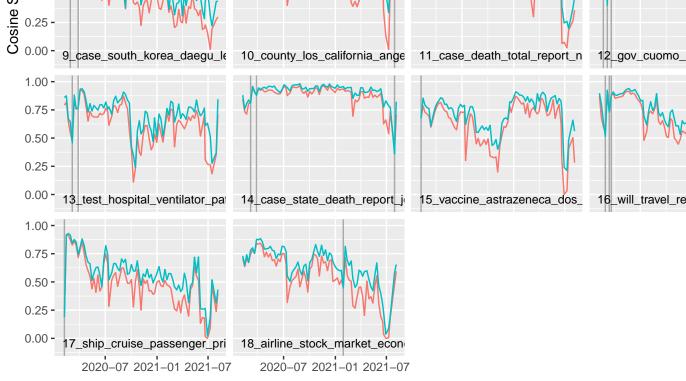
2020-07 2021-01 2021-07

Backward looking reference period of length  $2 \mid mix = 0.9$ 1.00 -0.50 0.25 -0.00 -1\_study\_variant\_researcher\_page 2\_uk\_johnson\_minister\_prime\_ 3\_vaccine\_trial\_fda\_drug\_auth 4\_mask\_hong\_kong\_wear\_reli 1.00 -0.50 -0.25 -5\_school\_student\_test\_positive 6\_dos\_vaccine\_event\_olympic 7\_fauci\_trump\_say\_dr\_preside 8\_stimulus\_senate\_pelosi\_billion 1.00 10\_county\_los\_california\_ange 11\_case\_death\_total\_report\_n 12\_gov\_cuomo\_order\_york\_wi



Backward looking reference period of length  $3 \mid mix = 0.9$ 1.00 -0.50 0.25 -0.00 -1\_study\_variant\_researcher\_page 2\_uk\_johnson\_minister\_prime\_ 3\_vaccine\_trial\_fda\_drug\_auth 4\_mask\_hong\_kong\_wear\_reli 1.00 -0.75 0.50 -0.25 -0.00 -5\_school\_student\_test\_positive 6\_dos\_vaccine\_event\_olympic 7\_fauci\_trump\_say\_dr\_preside 8\_stimulus\_senate\_pelosi\_billion 1.00





Backward looking reference period of length 4 | mix = 0.9 1.00 -0.50 0.25 -1 study variant researcher pa 2\_uk\_johnson\_minister\_prime\_ 3\_vaccine\_trial\_fda\_drug\_auth 4\_mask\_hong\_kong\_wear\_reli 1.00 -0.75 0.50 0.25 -0.00 -5\_school\_student\_test\_positive 6\_dos\_vaccine\_event\_olympic 7\_fauci\_trump\_say\_dr\_preside 8\_stimulus\_senate\_pelosi\_billion 1.00 10\_county\_los\_california\_ange 11\_case\_death\_total\_report\_n 12\_gov\_cuomo\_order\_york\_wi 1.00 -

