

Natural Disaster Trends Analysis

By Scott Burstein

Background



Data

From Kaggle: <https://www.kaggle.com/>

US Natural Disaster Declarations (FEMA)

- `fema_declaration_string`: Agency standard method for uniquely identifying Stafford Act declarations. Concatenation of `declaration_type`, `disaster_number` and `state`.
- `disaster_number`: Sequentially assigned number used to designate an event or incident declared as a disaster.
- `state`: US state, district, or territory.
- `declaration_type`: One of "DR" (= major disaster), "EM" (= emergency management), or "FM" (= "fire management")
- `declaration_date`: Date the disaster was declared.
- `fy_declared`: Fiscal year in which the disaster was declared.
- `incident_type`: Type of incident such as "Fire", "Flood", or "Hurricane". The incident type will affect the types of assistance available.
- `declaration_title`: Title for the disaster. This can be a useful identifier such as "Hurricane Katrina" or "Covid-19 Pandemic".

Google Trends

<https://trends.google.com/trends/?geo=US>

US Elections in Search 2020

See how the US - and the world - are searching for the November 3 election

● Unemployment ● Crime ● Supreme Court ● Health care
● Race



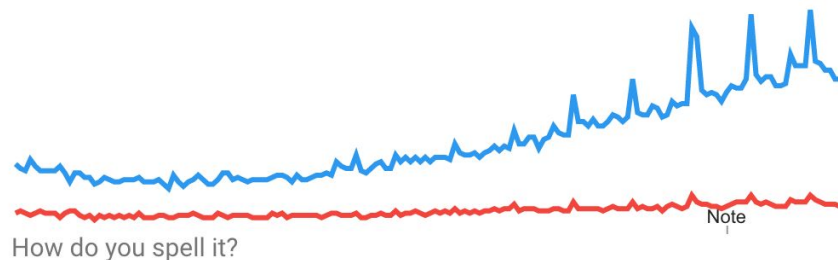
Search interest in top-searched issues, past 7 days

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Visualizing Google data

Welcome to our data visualization project: where we tell stories with data and design.

● Donut ● Doughnut

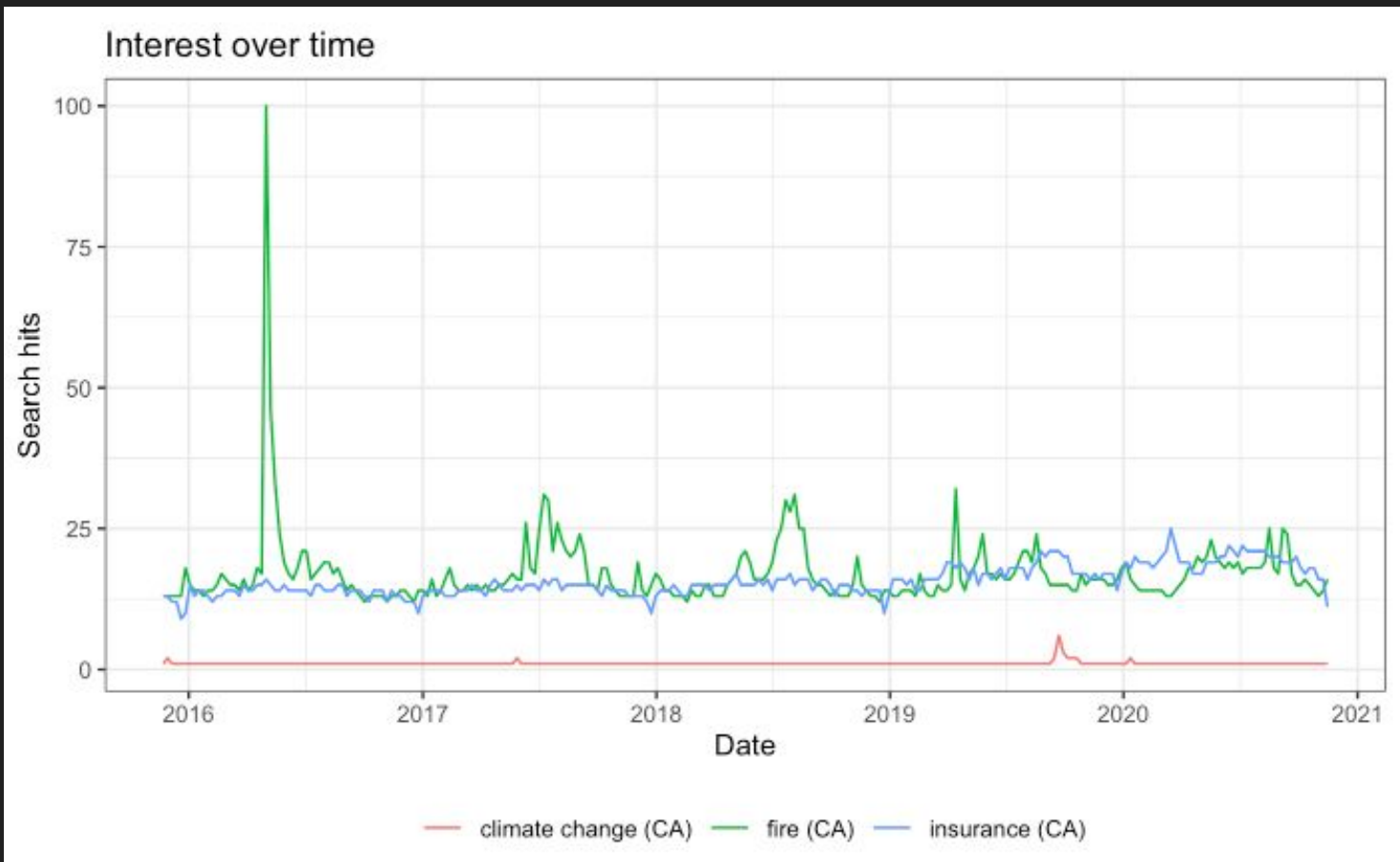


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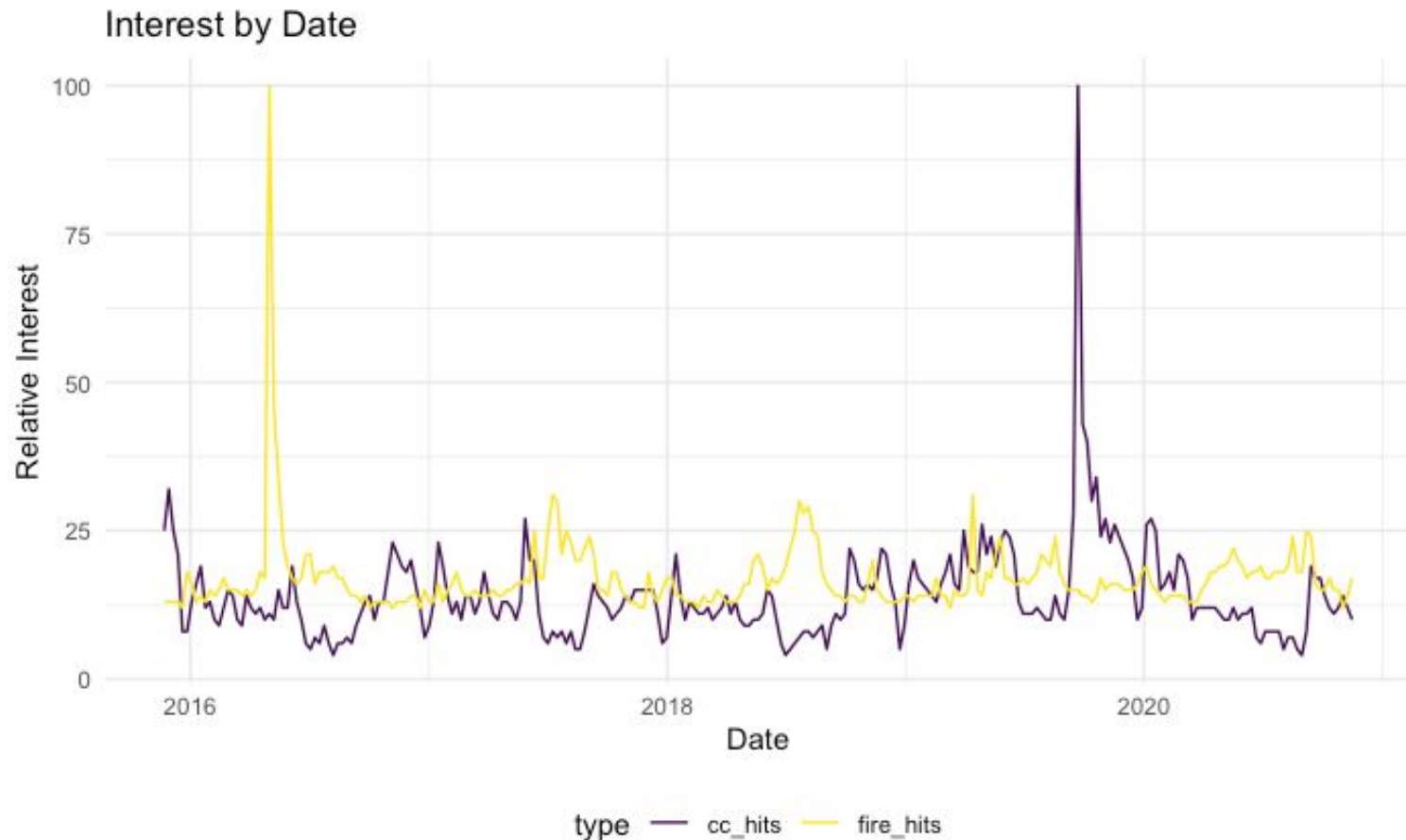
Research Question

- 1) Does interest in climate change increase regionally after the occurrence of a natural disaster?
- 2) Additionally, do Google search patterns correlate with real-world events?

Interest Over Time Visualizations



Interest Over Time (continued)



Questions? Feedback?

Thank you!