Assignment 5

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The United States is the only industrialized country without universal health insurance, and as a result, many Americans spend far more than any other country on health care (Vladeck 2003). As a result, health care reform was a major part of the campaign for the 112th Congress in 2010. Barack Obama, the 44th President of the United States, introduced the health care reform bill (Patient Protection and Affordable Care Act) at the time of the election. Since then, the U.S. government has invested $2.7 trillion over 10 years to bring 32 million uninsured Americans into the health care system. Under the new act, U.S. health insurance coverage will increase from 85% to 95%, approaching universal coverage (Huntington 2011). This sounds like it should be a good health care reform plan. But why did the 45th president of the United States, Donald Trump, use his executive power to stop Obamacare as soon as he took office?

Next, I used Voyant to look up specific words in all of Barack Obama's tweets from 2011-2016 and Donald Trump's tweets from 2011-2019 as key elements around the topic of health, and the results are shown in the chart.

Term	Collocate	Count (context)
health*	care	312
health*	coverage	236
health*	insurance	202
health*	obama	91
health*	sign	89
health*	getcovered	86
health*	americans	79
health*	president	59
health*	obamacare	55
health*	potus	46
health*	reform	45
health*	people	42

health* ✕   1,773 context   Scale ∨

Figure 1

According to figure1, Barack Obama has posted 1773 tweets related to 'health' between 2011-2016. Among them, 'care', 'coverage' and 'insurance' are the top three most frequently associated with 'health '.

Figure 2

And according to figure 2, the frequency of Obama's talk about 'health' has maintained a high frequency during 2011-2016, with a significant increase in the frequency of Obama's talk about 'health' in these two years from 2012-2013. The number of tweets about 'health' reached a peak in 2013, and the number of 'health'-related tweets declined in 2014. But overall, the frequency of posts is still very high.

I believe this search result is related to Obama's "Patient Protection and Affordable Health Care Proposal" for several reasons. First, the Obama health care law is a slogan that Obama has been shouting since he ran for office, i.e., he has been very concerned about 'health' related issues since 2009. On March 23, 2010, Obama officially signed the "Patient Protection and Affordable Care Proposal. Since then, the United States officially began to promote the 'Affordable Health Care Act'. This was the case until Donald Trump proposed repealing the 'Affordable Health Care Act' in January 2017. Thus, from 2011-2016, the United States was in the process of moving forward with the implementation of the 'Affordable Health Care Act'. This would explain the consistent focus on 'health' by Obama in the tweets collected from the sample dataset. Second, the

'Affordable Health Care Act' aims to reduce the increasing trend in the total cost of health care in the United States by expanding public and private health insurance coverage and reducing the proportion of people without health insurance in the United States. That is, the key to this bill is to require people without health insurance in the United States, as well as employers who previously did not offer health insurance to their employees, to purchase the new "Affordable Care. This explains why Obama's 'health'-related tweets most often refer to 'care', 'coverage' and 'insurance'. This is because of the need to remind people to buy 'insurance' and increase the 'coverage' of 'insurance' in the tweets. Third, why did Obama post 'health'-related tweets substantially more frequently in 2013-2014. I think it has to do with the timing of the implementation of the 'Affordable Health Care Act', which came into effect in 2014. People who did not have health insurance in the US in the past had to purchase the new Affordable Health Insurance from October 2013 to March 2014. As a result, Obama's 'health'-related tweets increased in 2013-2014 in order to remind people to get 'affordable health insurance' or the federal government would impose a penalty on their 2014 personal income tax returns in 2015.
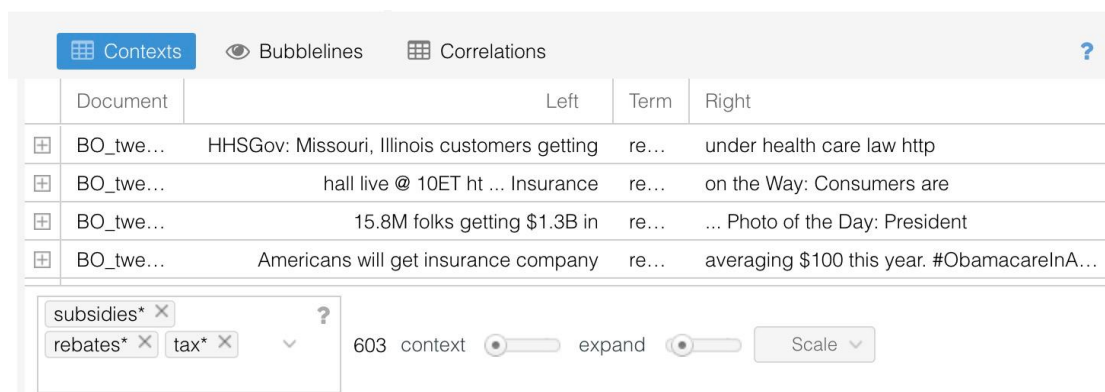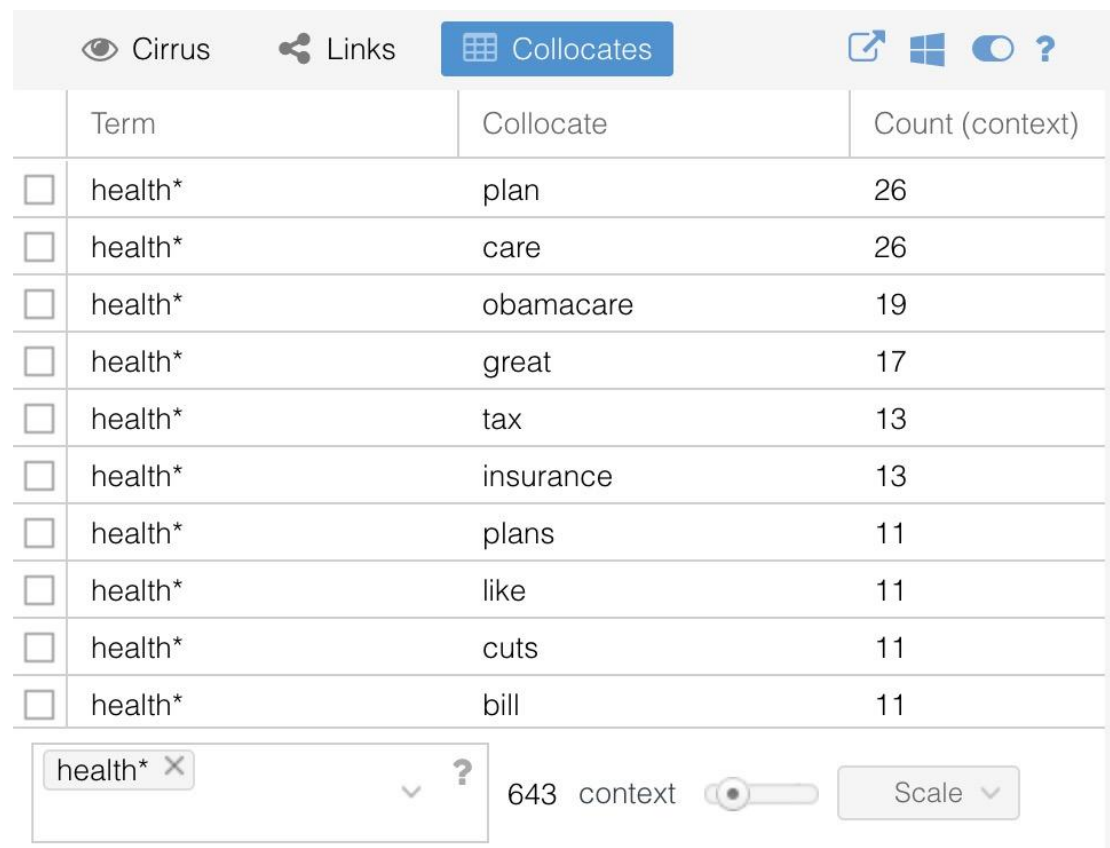
	Document	Left	Term	Right
⊞	BO_twe…	HHSGov: Missouri, Illinois customers getting	re…	under health care law http
⊞	BO_twe…	hall live @ 10ET ht … Insurance	re…	on the Way: Consumers are
⊞	BO_twe…	15.8M folks getting $1.3B in	re…	… Photo of the Day: President
⊞	BO_twe…	Americans will get insurance company	re…	averaging $100 this year. #ObamacareInA…

Contexts — Bubblelines — Correlations

subsidies* ✕
rebates* ✕ tax* ✕

603 context — expand — Scale

Figure 3

	Term	Collocate	Count (context)
☐	tax*	middle	89
☐	tax*	cut	83
☐	tax*	cuts	76
☐	tax*	obama	60
☐	tax*	president	38
☐	tax*	credits	36
☐	tax*	pay	35
☐	tax*	class	32
☐	tax*	credit	31
☐	tax*	congress	31

tax* ✕

1,105 context — Scale

Figure 4

However, I think it is not enough to simply use 'health' as a keyword to search Obama's tweets. The reason is that the health care reform plan promoted by Obama includes not only reforms in 'insurance', but also changes to 'Federal subsidies', ' Medicare drug rebates' and 'Medicare taxes', all of which are closely tied to American citizens (Huntington 2011). However, a search on Voyant for content related to 'health' does not show this content. It is the search for 'subsidiaries', 'rebates' and 'taxes' alone that shows specific results (as shown in figure 3). In this case, it is difficult to analyze Obama's views on the specific implementation of the health care plan, and it is difficult for people to post their views on specific policies under the president's tweets. And, and figure 4 can be known that the search on voyant on the content of tweets related to tax posted by Obama is less related to health. It is not possible to use voyant to see directly the impact of Obama's health plan on people in areas other than insurance from analyzing Obama's tweets, which may affect people's perception of Obama's health plan reform.

Term	Collocate	Count (context)
health*	plan	26
health*	care	26
health*	obamacare	19
health*	great	17
health*	tax	13
health*	insurance	13
health*	plans	11
health*	like	11
health*	cuts	11
health*	bill	11

health* ✕   643 context   Scale

Figure 5

According to figure 5 shows that Donald Trump posted 245 tweets related to 'health' during 2011-2019, where the words 'plan', 'care ' and 'obamacare' are the three words that are most frequently associated with 'health'.
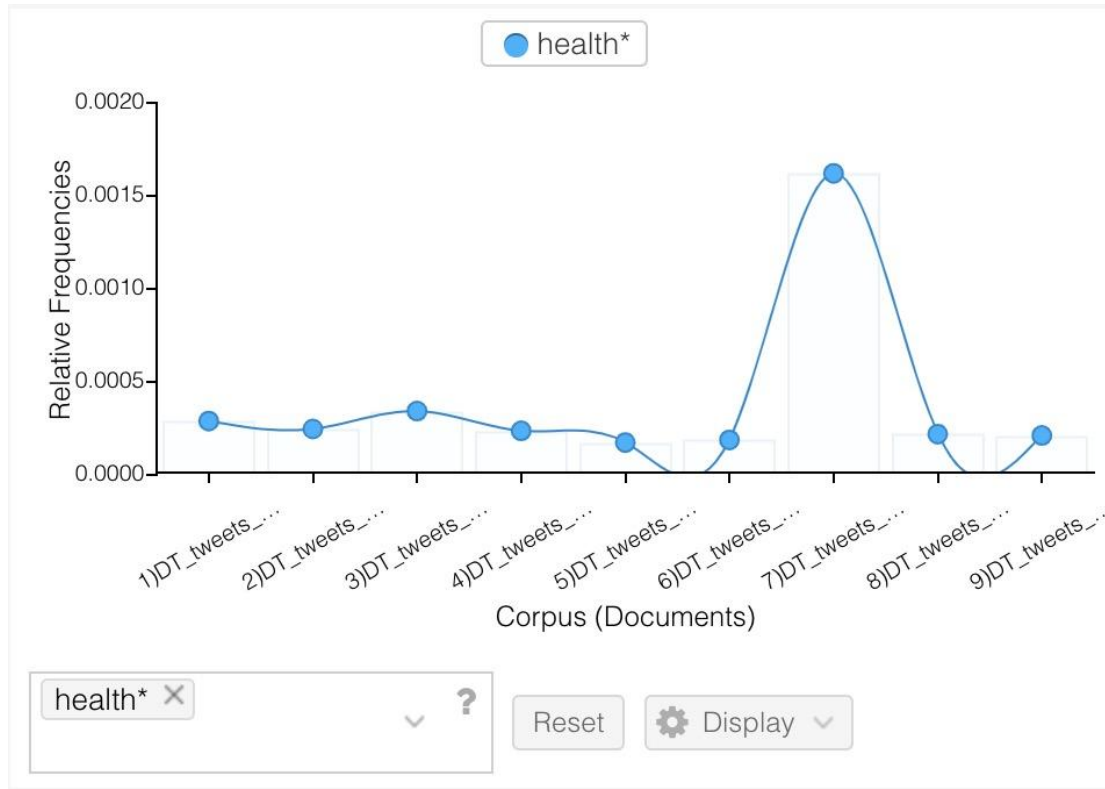
Figure 6

Whereas, according to figure 6 shows that Donald Trump has less number of tweets about 'health' during 2011-2016, and 2018-2019. Only during 2017, a higher number of tweets related to 'health' were posted.

I think this search result is related to Donald Trump and Obama's health care reform bill. First, in past interviews, Trump has said more than once, "'ObamaCare' is a disaster and we have to fix it." Previously, during the Trump campaign, he said he wanted to repeal ObamaCare, and has since made several statements on social media saying that ObamaCare is too expensive and that a "better" healthcare bill is needed. As a result, Donald Trump's tweets about 'health' are often linked to 'obamacare'. Second, why did Trump send tweets related to 'health' more frequently in 2017. The reason is that in January 2017, after being sworn in, Trump signed his first executive order to stop Obamacare, and in May 2017, the U.S. House of Representatives voted 217 to 213 to eliminate Obamacare, Trump's first legislative victory. As a result, Trump posted an increased number of health-related tweets that year.

However, in reality, Trump was only elected as the 45th US President in 2017. However, the data collected so far is only the content of tweets posted by President Trump from 2011-2019. Therefore, the difficulty of analyzing the perceptions of 'health'-related issues tweeted by Trump after his election from voyant rises due to the limited content of tweets collected after Trump's election. Moreover, since the Obamacare plan was passed by Congress in 2010, Republicans have been working to repeal the bill in Congress, with dozens of votes alone, only once in 2016, but the bill was vetoed by Obama as soon as it was sent to the White House. So President Trump has had

a long debate about repealing Obama's health care reform plan since he took office. So in the future, in the study of Trump's and Obama's views on 'health', we can collect more of Trump's tweets after his election in 2017 in order to analyze Trump's views on 'health'.

Figure 7

Comparing the words commonly used by Obama and Trump about 'health' with the words used with 'health' from time to time in TensorFlow, as shown in figure 7, I found that healthcare is a common word for all three I found that healthcare is a frequent word for all three. This shows that healthcare is not only a topic of importance for national leaders, but also an area of great concern for all citizens.

Reference:
(1) Vladeck, B. (2003). Universal health insurance in the United States: Reflections on the past, the present, and the future. American Journal of Public Health, 93(1), 16-19.
(2) Huntington, W. V., Covington, L. A., Center, P. P., Covington, L. A., & Manchikanti, L. (2011). Patient Protection and Affordable Care Act of 2010: reforming the health care reform for the new decade. Pain physician, 14(1), E35-E67.