cody:
-analyzed tweets with the wordd climate from between septe,er 2008 and july 2014
-found climate change activists predominately react to climate change events while climate change deniers do not
-found that tweets containing the word climate are less happy than all tweets
-used hedonometer to determine happiness of tweet by looking at keywords and rating hoe happy they are on a scale of 1-9

an:
-exclude retweets because they assume they cant detect sentiment in retweets
- divide into subjective and objective group (ie. user opinion vs news articles)
- only do sentiment analysis on subjective
- work with polarity of the tweets, (more of like the whole group's sentiment rather than individual)
- used same algorithm
- detected a connection between short-term fluctuations in negative sentiments and major climate events.
- says there is a lot of uncertainty with overall sentiment, but says twitter is a viable method for determining sentiment about climate change

new:
- relating number of climate change tweets due to temperature that day
- looks at time of day, number of tweets, etc

dates:
migrants in europe - apr 23
chilean volcano erupts - apr 23
news of nepal earthquake - apr 28

more news of nepal earthquake = may 1
atmospheric co2 reaches record - may 8
US votes to cut funding for climate science - may 8
tropical storm ana - may 8-12 hit US on may 10
colombian landslide - may 19
seattle protestes shell's plan for new oil rig - may 19,20
cali oil pipeline rupture - may 21
obama calls people to action against climate change 'immediate risk to national security'- may 21
protesters call nestle to stop bottling water in drought stricken cali- may 21
texas flood/tornado outbreak - may 23 - 29
flood/tornado in texas, OK, Mexico kills - may 26
protests against shell -26
california farmers agree to water cuts - may 26
heat wave in india kills a lot - may26, 28
rick santorum, george pataki launched his bid for republican pres nom - may 28,29
obama answers questions on twitter - may 28
norway divest oil fund from coal over climate change concerns - may 28

indian heat wave kills - june 4
shell sending boat to drill in arctic - june 16
pope francis addresses climate change - June 18,19
pakistani heat wave kills 400 - June 23
chile has emergency smog warning - june 23
tornadoes and large hail hit midwestern us - june 23
epa releases climate change report - june 23
record heat in BC - jun 27,28

heat records in europe - July 1 and 5
anniversary of oil train disaster/people arrested for destroying pipe - july 7,8
syrian refugee number tops 4 million - july 9
exxon knew of climate change in 1981 - july 9
3 pres candidates refuse fossil fuel money - july 9
snow finally melts in boston - july 14
hurricane dolores - July 12-18 - record rainfall in cali 18-19
iran hits 73 deg temp - july 31

obama unviels power plant regulations to stop climate change - aug 3
cali wildfires - aug 3,6
extreme drought in puerto rico aug 6
republicans first debate - aug 7

obama to alaska - Aug 31-sept4?
love song to the earth song - sept 11
record hot in phoenix - aug 14-16
hottest day on record in toronto = august 17

climate change conference - nov 30-dec11

location, track a specific user, calculate the coefficient of variation

location: A Sadly Blue State , nationwide, usa, berkley cali

after pope's: 40% people changing mind - about 75% were activists

early august with cali wildfires, heat record in iran: 30% people changed mind - 80% were activists

date	% of control group to switch sides	% of group that switched that started as an activist	major events of that time
apr 25	42	73	normal day
may 7	37	72	co2 records/ normal day
jun 18	42	75	pope's encyclical
jul 22	38	78	normal day
aug 3	33	80	cali wildfires/ heat waves/ record temps
sep 2	30	75	obama in alaska