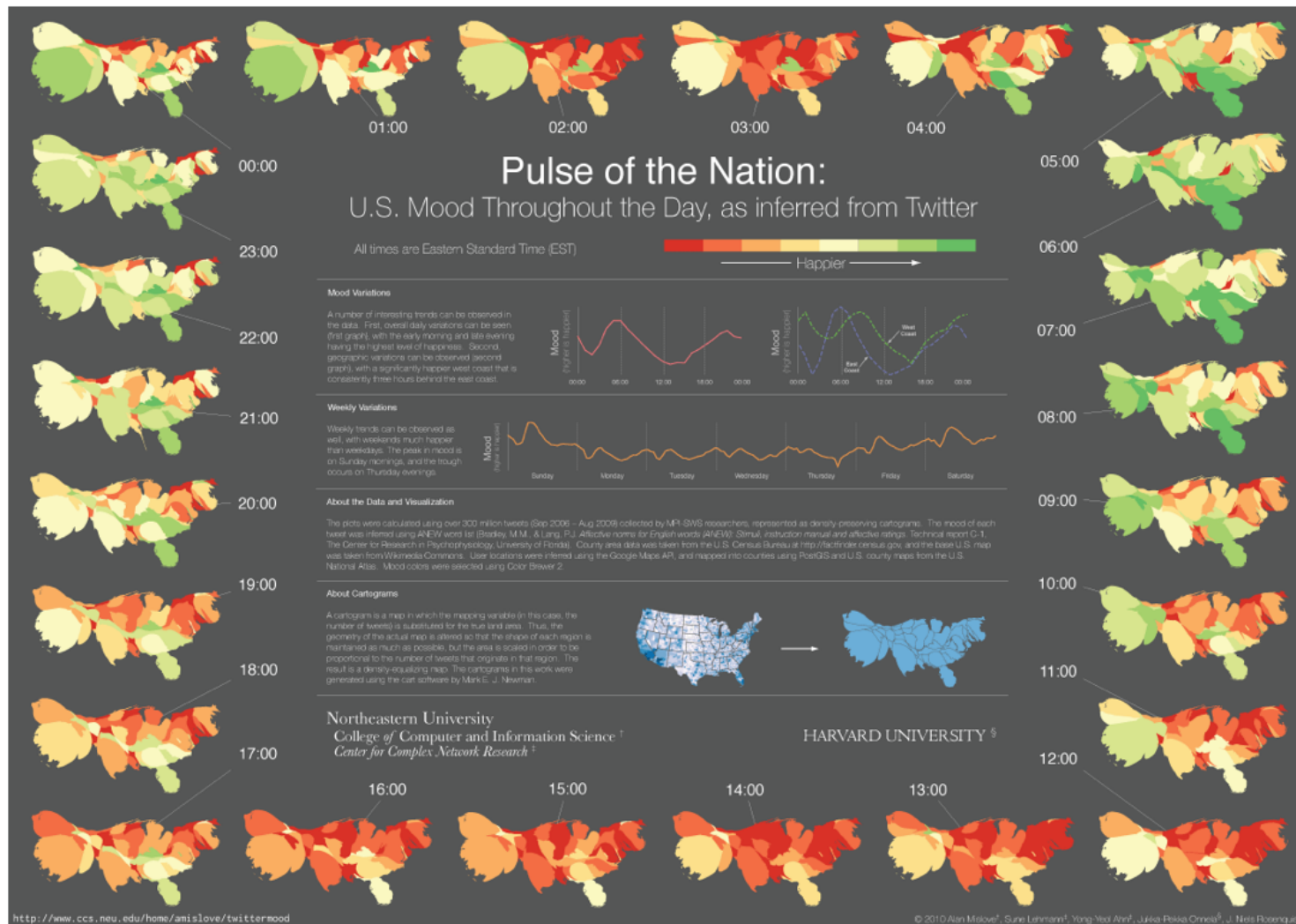


French Tweet Emotion Cycles

Diyang Tang
Jake Varley

Inspiration



Data Sources

- Tweets
 - Filtered using Python library `guess_language`

Possible Methods

- Pulse of the Nation: Bag of words using ANEW
- Filter on emoticons (Pak and Paroubek, 2010)
- Score adverbs (Benamara et. al, 2007)
- Livejournal entries (Leshed and Kaye, 2006)

Data Sources

- Tweets
 - Filtered using Python library `guess_language`
- Livejournal posts
 - Found by searching “interests” and schools in France
 - Blog post + tagged emotion

Example Post

- Location: [dans mon bain](#)
- Mood: exhausted
- Music: no stress

ALPHABITS

J'ai décidé de m'inspirer de plusieurs bloggeurs et de commencer une nouvelle série de blogs. Oui, oui! Moi qui me plaint tout le temps que mes posts sont inintéressants mais qui a pourtant envie de parler de tout plein de trucs, eh bien je me lance!

Le concept est simple et vous allez le comprendre assez rapidement.

De plus, à défaut de pouvoir faire de nouveaux vidéos, je vais uploader des vieux vidéos qui traînent dans mon ordi dans les prochains jours. Je ne les posterai pas tous ici parce qu'il y en a beaucoup trop, mais bon... Le lien est à gauche!

Tags: [alphabits](#), [oldies](#)

Source:

<http://improviste.livejournal.com/29527.html>

Method

- Group tagged emotions into a few categories
- Naive Bayes, trained on French Livejournal posts + grouped emotions
- Plot % of tweets for each emotion

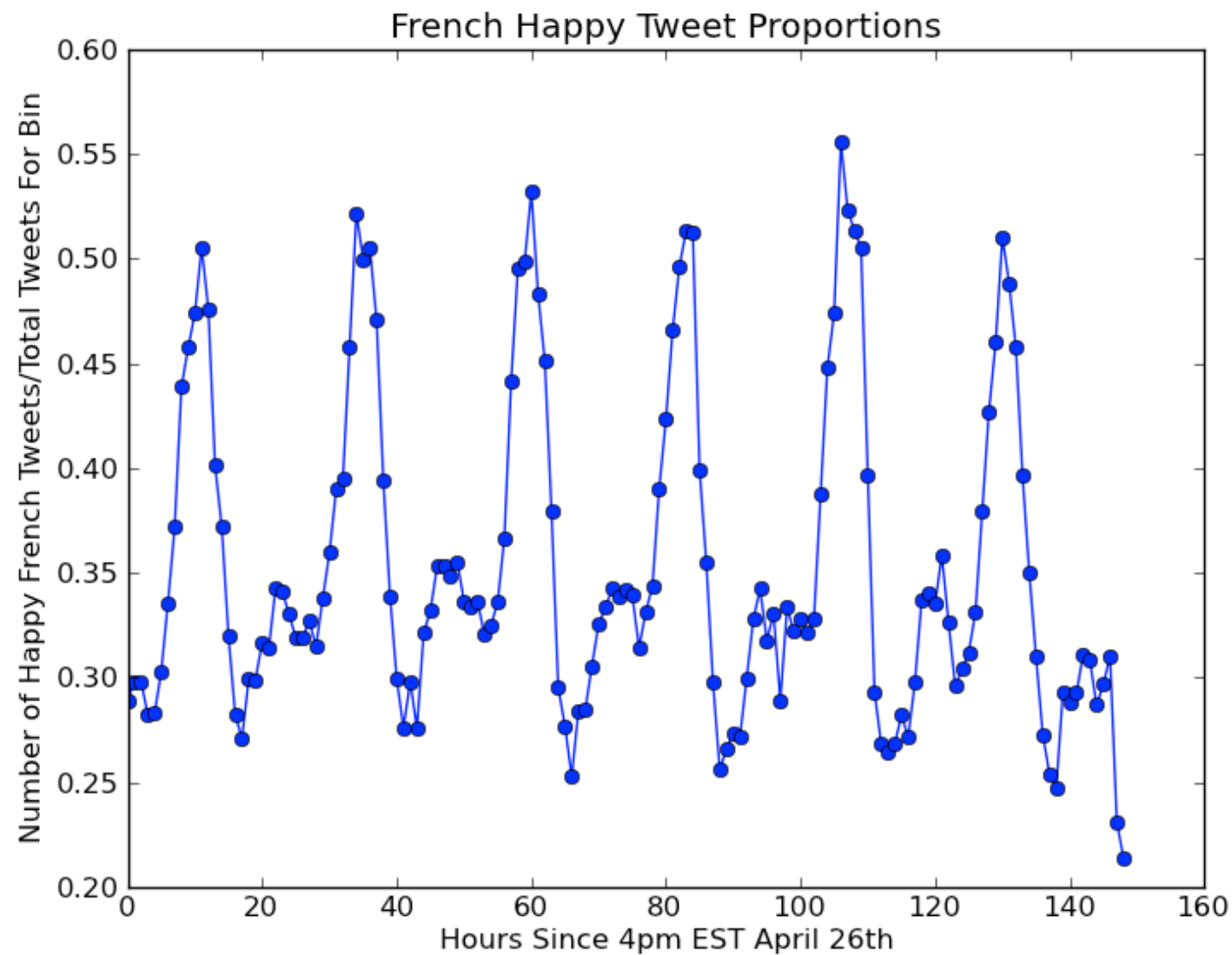
Categories

10 Most Frequent French Live Journal Emotions:

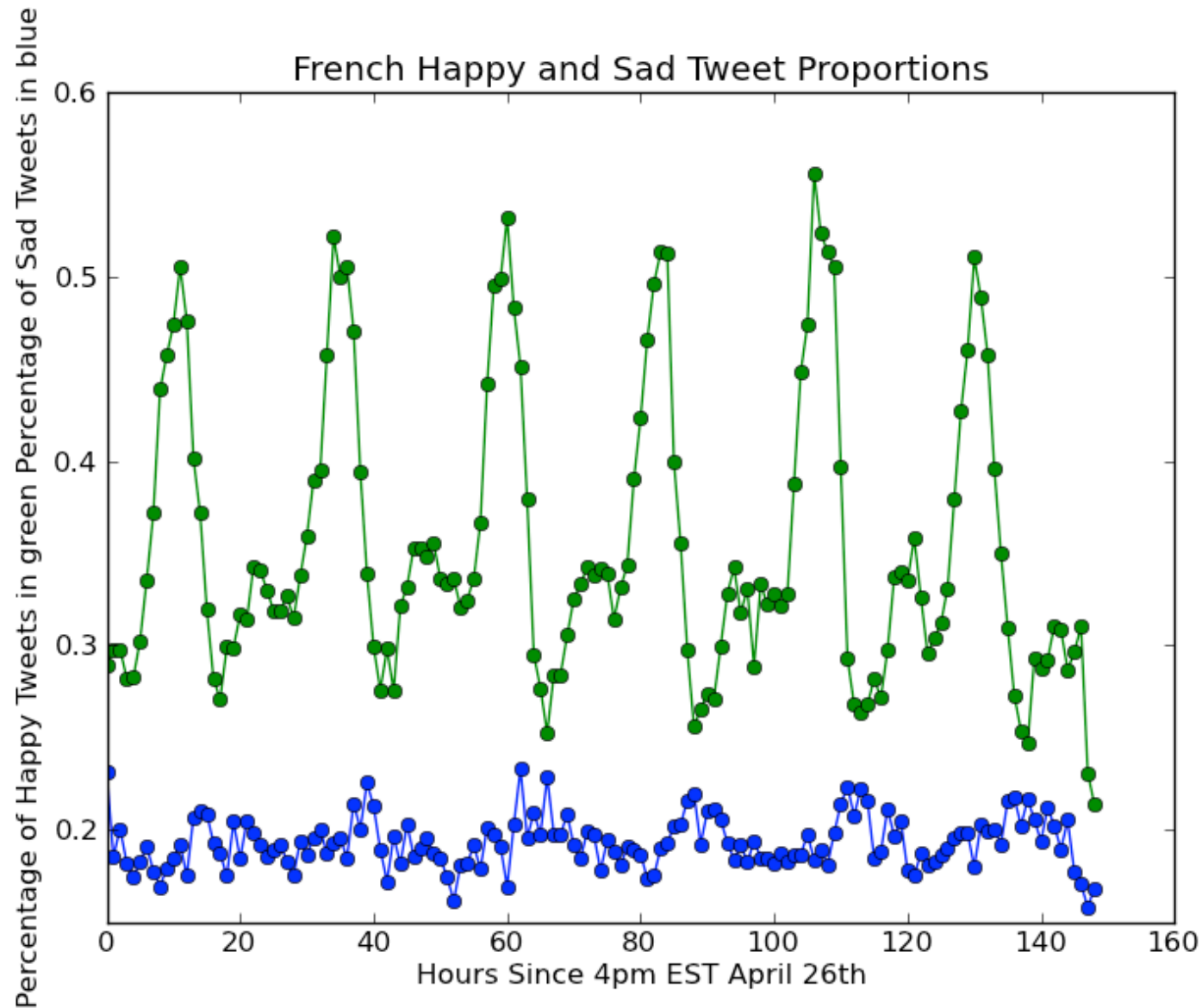
(59, 'happy')
(39, 'calm')
(31, 'accomplished')
(30, 'tired')
(24, 'contemplative')
(22, 'pensive')
(22, 'cheerful')
(21, 'amused')
(19, 'sad')
(19, 'okay')

Figure 2: 10 Most Frequent Emotion Tags

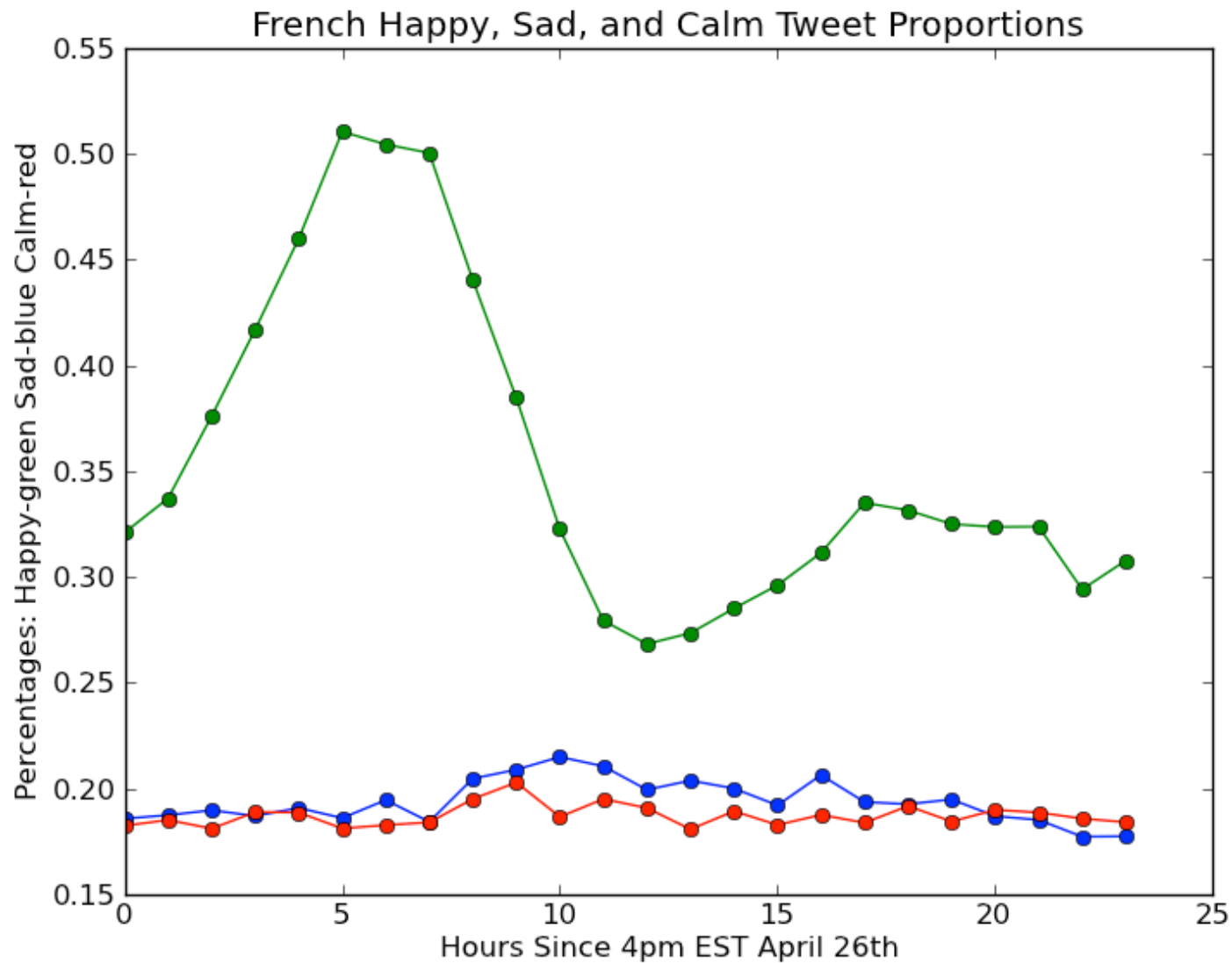
Results



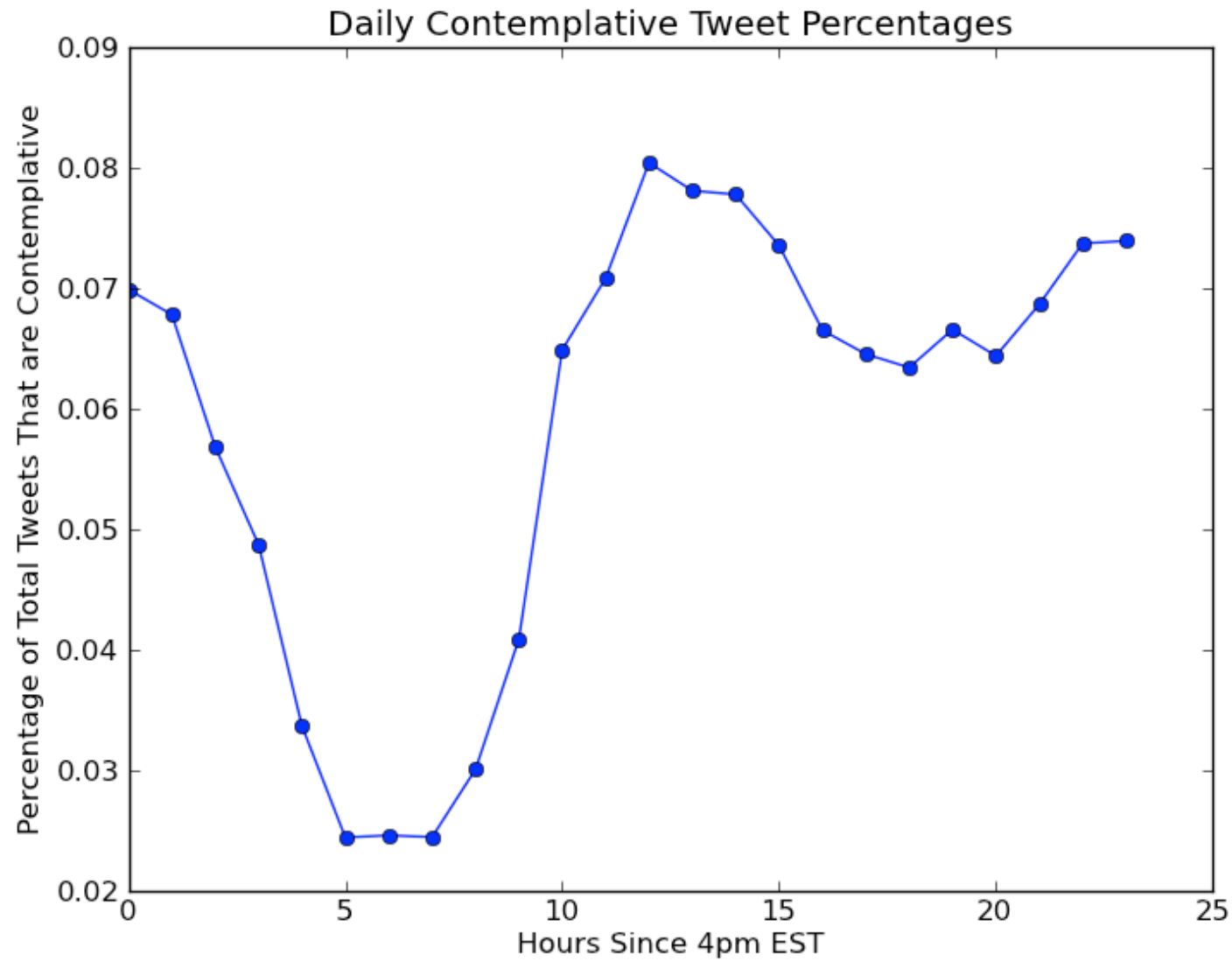
Results



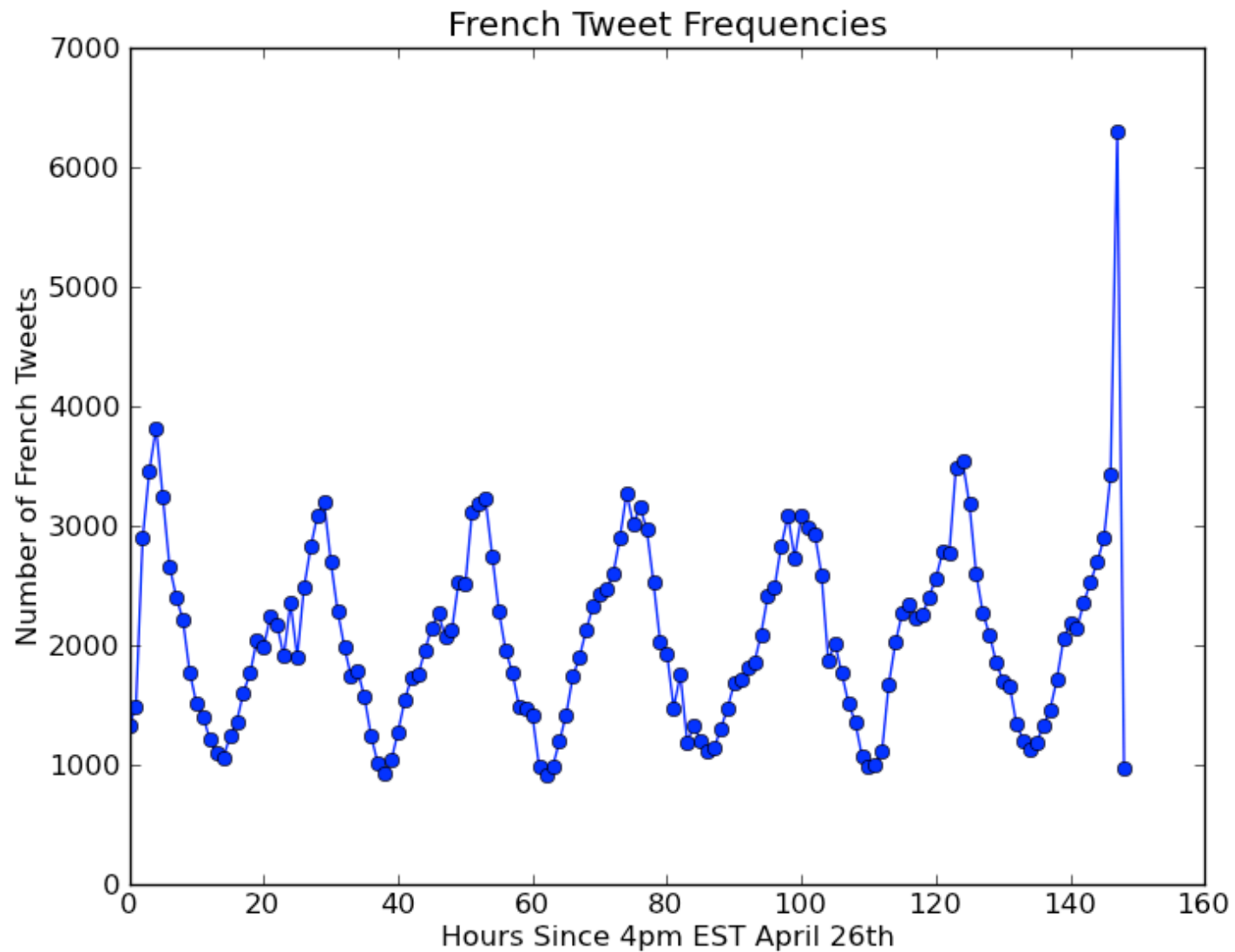
Results



Results



Results



Findings

- Strong daily pattern
 - Unhappiest around 10am Paris time
 - Tweet least around 2pm Paris time
- Weak weekly pattern
 - Percentages seem to hold steady
- Happy and Contemplative seem to be complimentary

Further work

- Better filtering -- use more of the tweet metadata
- Take into account volume more
- Limit feature space
- Threshold