



## Positioning

Spatial Computing – University of Minnesota







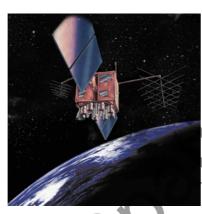


Signal-basedntent-based PositioningPositioning









Detection of a client's device (e.g. for OSIGIONAL) Gation-based service, scientific application)

sed when no signal-based position

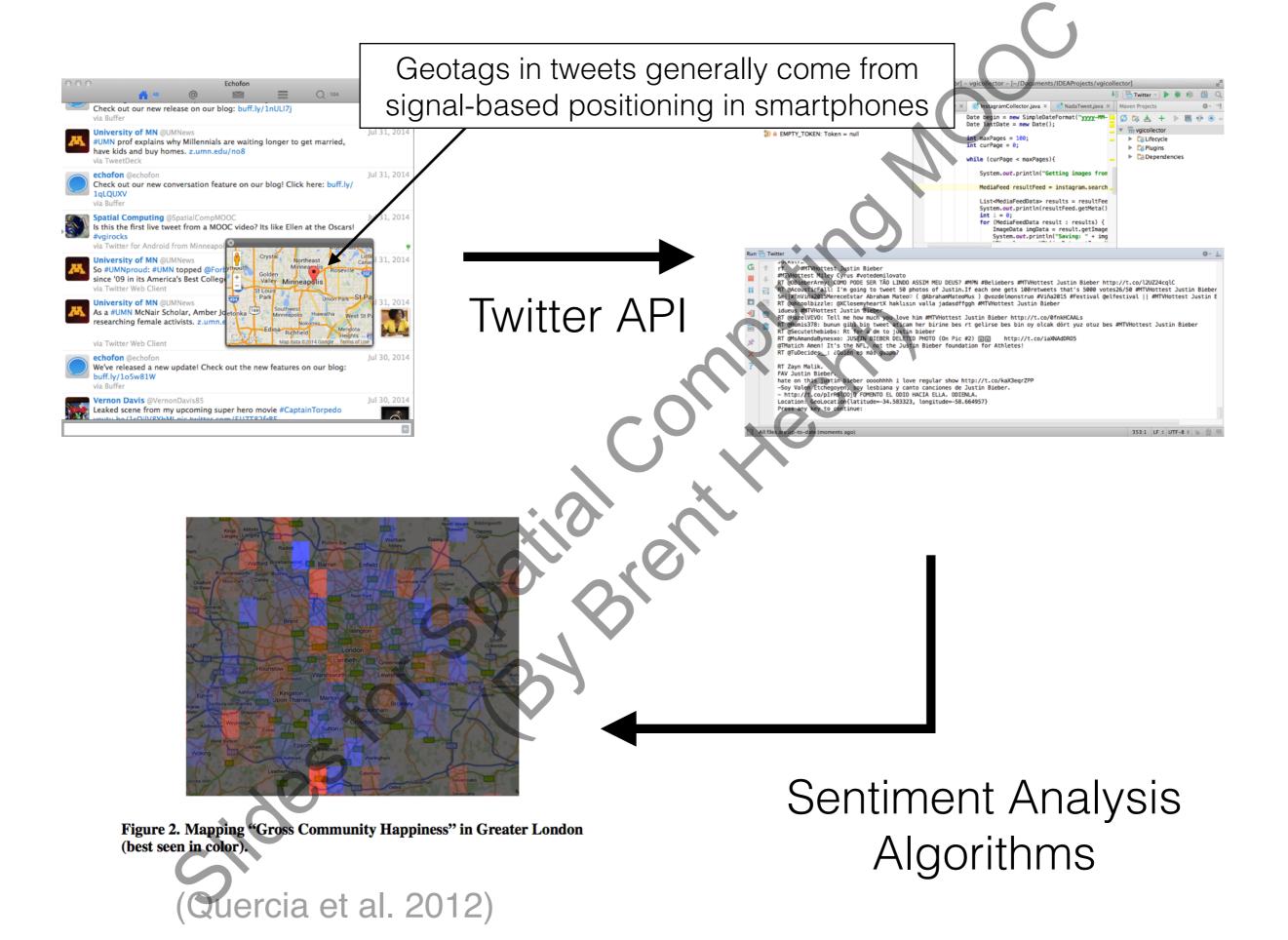
is available

(e.g. location inference in online

Contemt-based

Positioning
Used when signal-based positioning
is not useful for your needs

(e.g. need "home" not "current" location)



### Only 1-3% of tweets are geotagged!

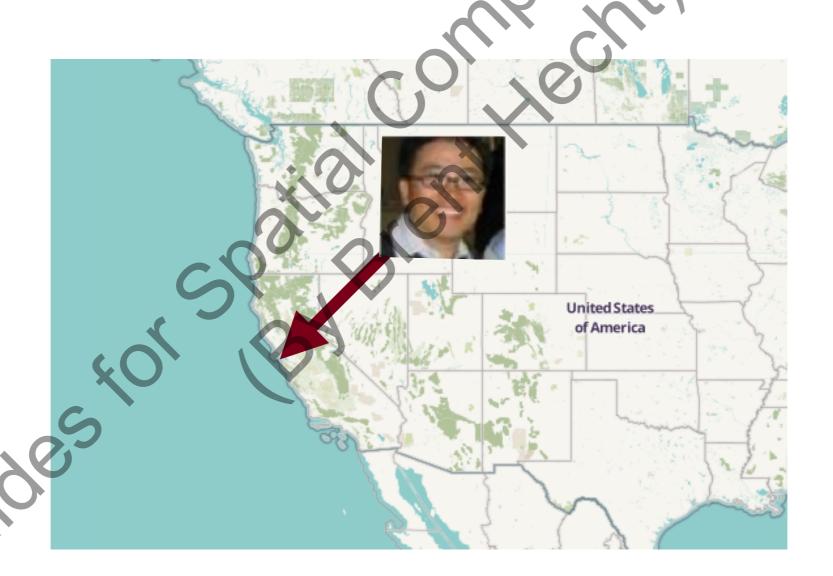




#### edchi edchi

wonderful afternoon at the 20th anni. of HCl at StanfordU. Terry Winograd toasted by many, inc. my ex and current boss: S.Card and L.Page.

21 Feb







### Only 1-3% of tweets are geotagged!





Content-based

**Positioning** 

The use of implicit and explicit geographic information contributed or consumed by Internet users to generate a position for these users (with or without their knowledge or consent).

We'll cover the following content-based positioning-related topics:

**Geoparsing:** Extracting place names from natural language text

2 "Home Locations": The dynamics of location fields in user profiles (and more)

# Positioning

#### Spatial Computing – University of Minnesota

#### Attributions

Twitter location maps © OpenStreetMap contributors (www.openstreetmap.org/copyright)

"Cell tower in jovel chiapas" by Leogeograph - Own work. Licensed under Creative Commons Attribution-Share Alike 3.0 via Wikimedia Commons - <a href="https://commons.wikimedia.org/wiki/File:Cell tower in jovel chiapas.JPG#mediaviewer/">https://commons.wikimedia.org/wiki/File:Cell tower in jovel chiapas.JPG#mediaviewer/</a>
<a href="mailto:File:Cell tower in jovel chiapas.JPG">File:Cell tower in jovel chiapas.JPG</a>

["Wifi"\] By RRZEicons (Own work) [CC-BY-SA-3.0 (http://creativecommons.org/licenses/by-sa/3.0)], via Wikimedia Commons

Cildes