## Framework Domain

- ➤ Domain: Event-based data for visual display with countable keywords and optional priority
- > Example data plugins:
  - Facebook posts with location/emoji
  - Webscripting a site such as TicketMaster with concert and song listings
    - Basic CSV file
- > Example visualization plugins:
  - Frequency display
  - Roadmap of events with optimal routes



# Framework Details

This framework will be made to be reasonably general to handle most event based data in a particular region.

### ➤ Key abstraction:

- Any event will have a time, place, and some description keywords.
- Visualizing events on a map is the most natural presentation and is flexible.

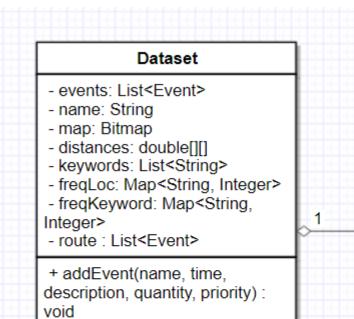
### There is tons of flexibility in plugins:

- Data would only require the bare minimum: time, place, and some description at minimum.
- For visualizing, there are many modes of representing data on maps (e.g. frequency, path scheduling).

# Project structure

- framework
  - core
    - (I) MapperListener
    - (C) MapperFramework
    - (C) MapperGui
    - (I) DataPlugin
    - (I) VisualPlugin
    - datapoint
      - (C) DataSet
      - (C) Event

- plugin
  - data
    - (C) TicketMasterPlugin
    - (C) SpreadsheetPlugin
  - visual
    - (C) MapRoutePlugin
    - (C) KeywordFrequencyPlugin



+ getDistances(List<Event>):

+ getTimes: List<Time>

+ combine(List<Dataset>):

double[][]

List<Event>

+ process(): void

# Event + subject: String + time: Time + location: String 0..\* + latitude: double + longitude: double + keywords: List<String> + quantity: int + priority: int + compareTo(event): int

