
WEATHR

A StreamSpin Service



Outline

- * Weathr Service overview
- * StreamSpin evaluation

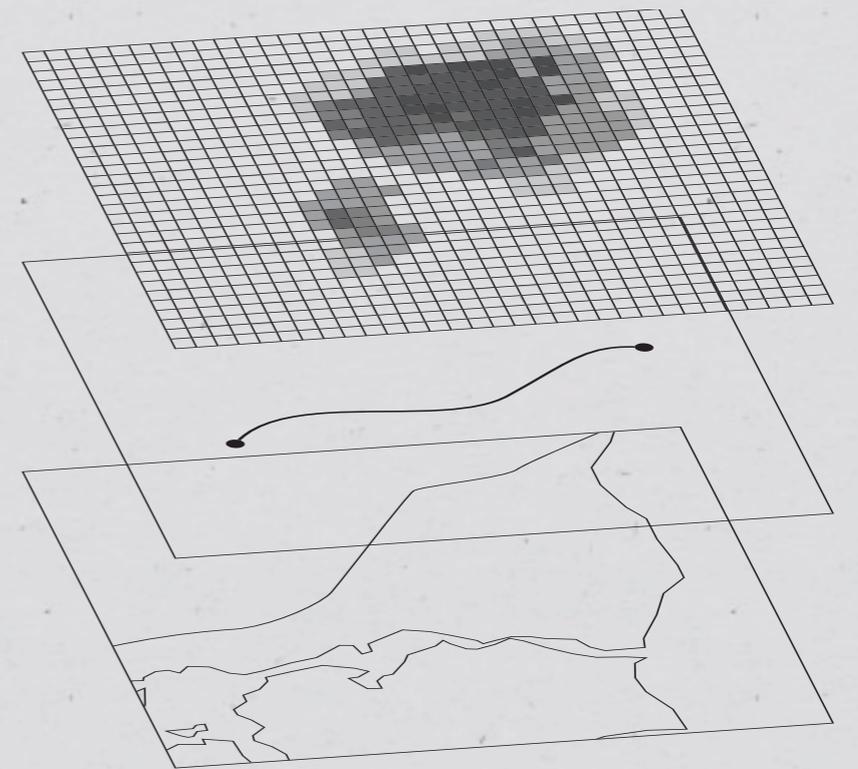
Service Overview

- * Data comes from a Local Area Weather Radar (LAWR)
- * We warn users of upcoming rainfall



Service Overview

- * 240×240 matrix
- * Each cell is $500\text{m} \times 500\text{m}$
- * We can query:
 - * Single cells
 - * Routes
 - * Polygons



Service Overview

- * From a web interface, users can:
 - * Make single cell queries
 - * Create polygons that are continuously watched
- * On the road users travel along routes (adds a time dimension)

Service Front Page



Subscribe to Weather Service

http://192.168.83.128:8080/streamspin/?userid=9088&sid=894&sop=create

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What is a weather Rappr service ?

A weather service is a service which is capable of providing a user with various services related to weather precipitation. The service is based on data provided by a Local Area Weather Radar (LAWR) located in North Jutland, Denmark. The goal of Rappr, in a mobile context, is to provide users that are moving about outdoors with warnings of nearby rainclouds. Combined with a route recognition mechanism, the service will be able to warn users that are about to experience rainfall and possibly devise an alternate route that takes the user to his destination without getting wet.

Subscribing

Subscribe to Weather Service

http://192.168.83.128:8080/streamspin/usersubscribe.jsp

Google



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Weather Info:

Username:

Threshold:

Description:

Evaluation - the Good

- * Middle-layer service
- * The idea of a platform for mobile services is nice
- * Uses web services as underlying API

Evaluation - Improvements

- * Open source?
- * There is no test server, only production server
- * Documentation is insufficient
- * Spatial filtering of messages is not possible
- * Security: ticket-based authorization is not implemented
- * Deeper platform integration in client (e.g. daemon creating popup msgs)
- * API Consistency
- * “Browser” component is limited (javascript etc.)