

Disease Map for Japan: Web-services mashup

Team Red-Alert

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The Project

- *Goal: introduce service to outline recent disease data on the map*
- *Tools: open-source tools and open web-services API interfaces*

Similar services

- *Who is Sick?*

<http://whoissick.org>

- *HealthMap*

<http://healthmap.org/en>

These are quite good services, but

Similar services

- *Do not have japanese specific functionality*
- *Limited support for developers*
- *Information is not verified by trustworthy authority*

Concept



Get official data from trusted source

国立感染症研究所

<http://idsc.nih.go.jp/idwr/sokuho/index.html>



Get geocoding metadata

メータデータ

<http://maps.google.com/maps/api/geocode/json?address=福島県&sensor=false>



Get maps data for specific locations

地理情報

<http://maps.googleapis.com/maps/api/js?>

Concept



Get trusted terminology reference

学術用語

<https://uts.nlm.nih.gov/home.html>



Get data from social networks

ソーシャルメディア

<http://twitter.com> , <http://facebook.com> , and etc.

Mashup

2012年06週(02月06日~02月12日)

インフルエンザ



福島県 13409

茨城県 13900

栃木県 8933



インフルエンザ *Influenza*



福島県 *Fukushima*

茨城県 *Ibaraki*

栃木県 *Tochigi*



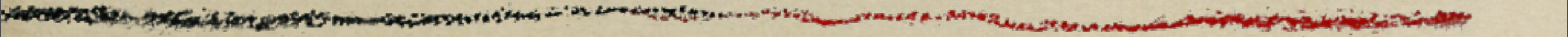
Mashup



Why it is important?

- *Get up-to-date official information about diseases*
- *Allows to plan*
 - *personal health condition*
 - *business trip and tourism routes*
- *National healthcare support*

Development Constraints



Development Constraints

- *Time and resources are limited:*
 - *23 hours*
 - *3 people*
 - *Limited internet connection*

Development Constraints

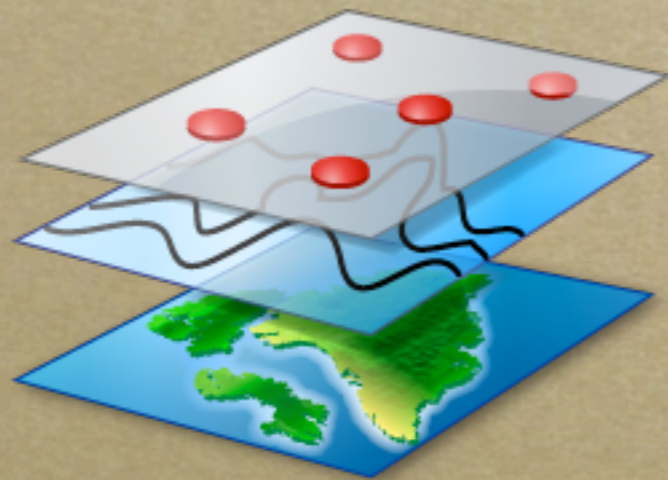
BUT

Further Development: Estimation

- *To finish working prototype with limited functionality (development only):*
 - $5 * 8 = 40$ hours (around 150000円)
- *To finish full-scale service*
 - $a\ month = 160$ hours (around 660000円)

Further Development: Functions

- *Multilayered combination with 3rd-party services*



Radiation map

Weather information

Hay-fever

- *Web-service deployment: API*



Thank you for the attention!