Pandemic Disease Visualisations

Or How to Save the Human Race

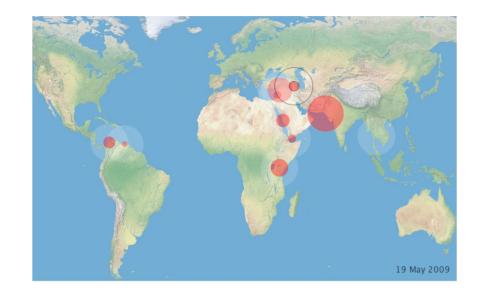
Robbie Howe

What?

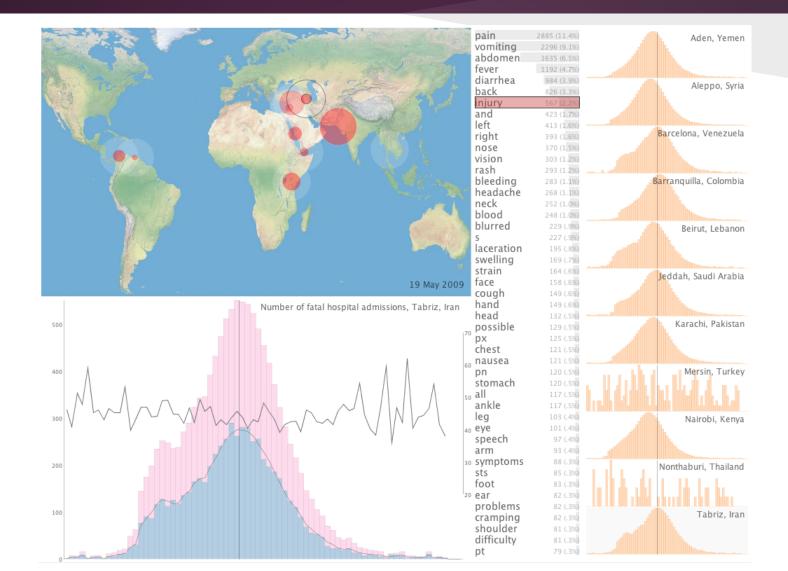
- Hospitalisation and death records
- Other pandemic data
 - Modelled human interaction
 - Host organism movements

Why Pandemics?

- Influenza, TB, malaria
- Wide-scale death and suffering
- Spread of a disease
- Quick response may be needed



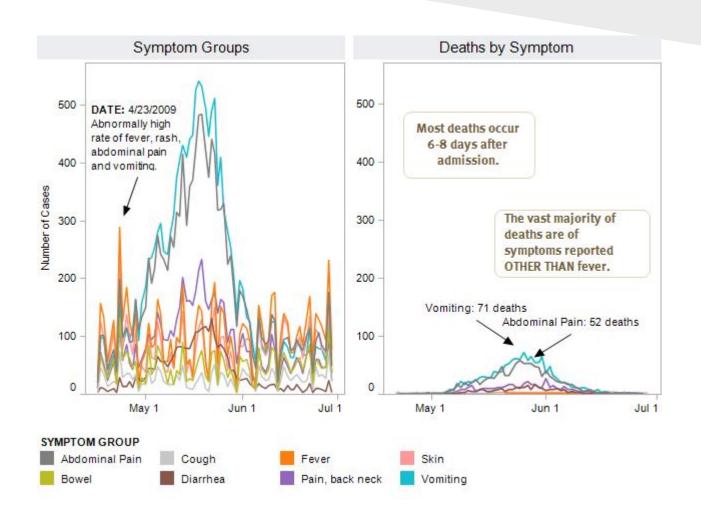
VAST Challenge Entries



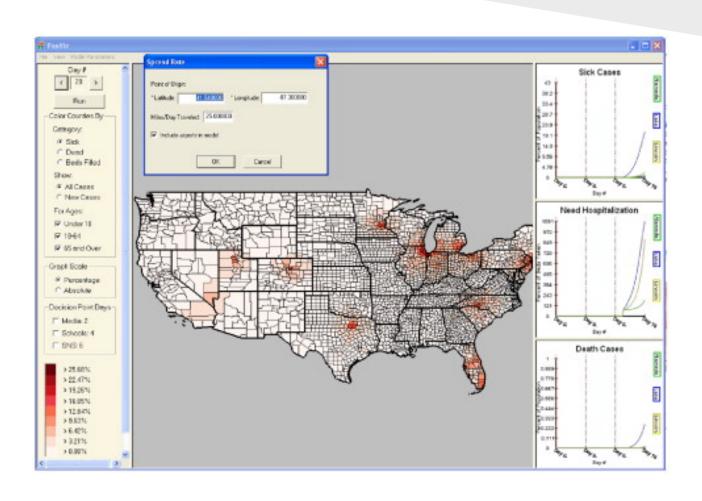
VAST Challenge Entries



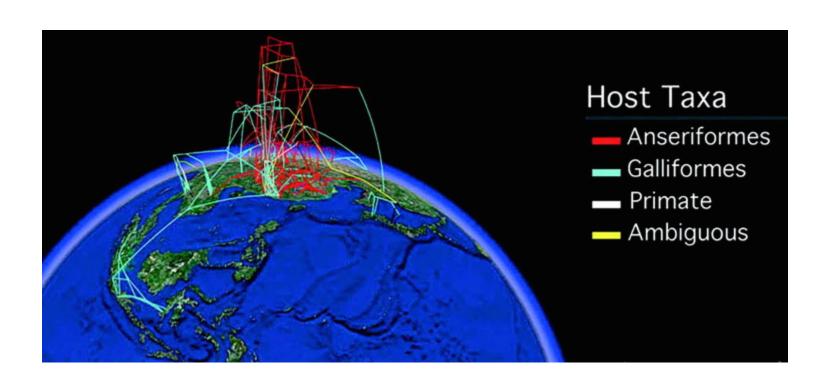
VAST Challenge Entries



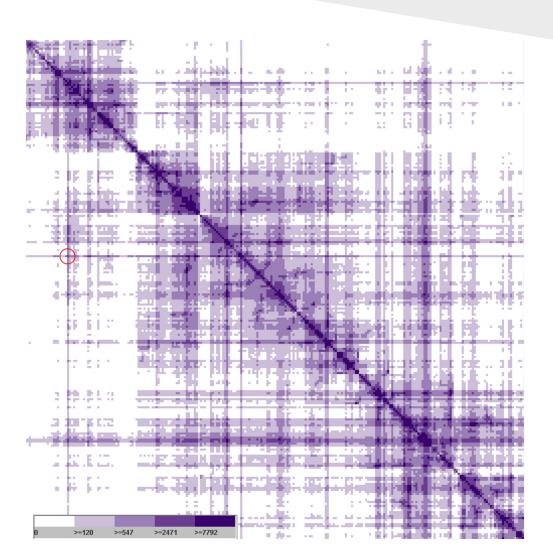
Current Research



Current Research



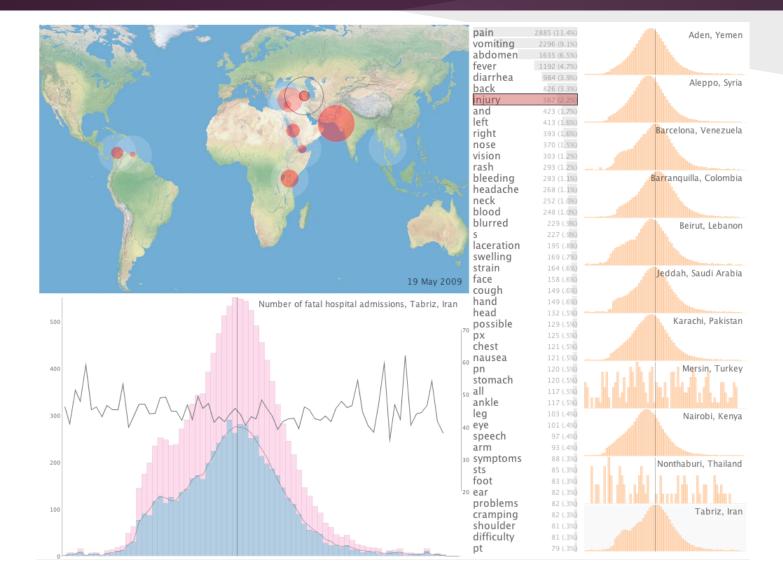
Current Research



Visualisation Tasks

- Locate the origin of an outbreak
- Characterise the spread of the disease
- Provide symptom analysis
- Identify anomalies

Visualisation Tasks



Available Tools

- Tableau
- Lyra, ManyEyes, CartoDB
- Geocommons
- Programming options

Conclusions and Future Work

- Current approaches effective
- Web-based programming tools
- Still deeper insight to be gained

Thank you