

DSA8022

Frontiers in Analytics

Part one: Visual Analytics

Who we are?

- Introduce yourself
 - Your name
 - Your area of focus
 - Your background and any technical background
 - What is one of your interest/problem/issue in this context
- Introduce the teaching team
 - Salman Ahmad
 - Muhammad Irfan
 - Hui Wang

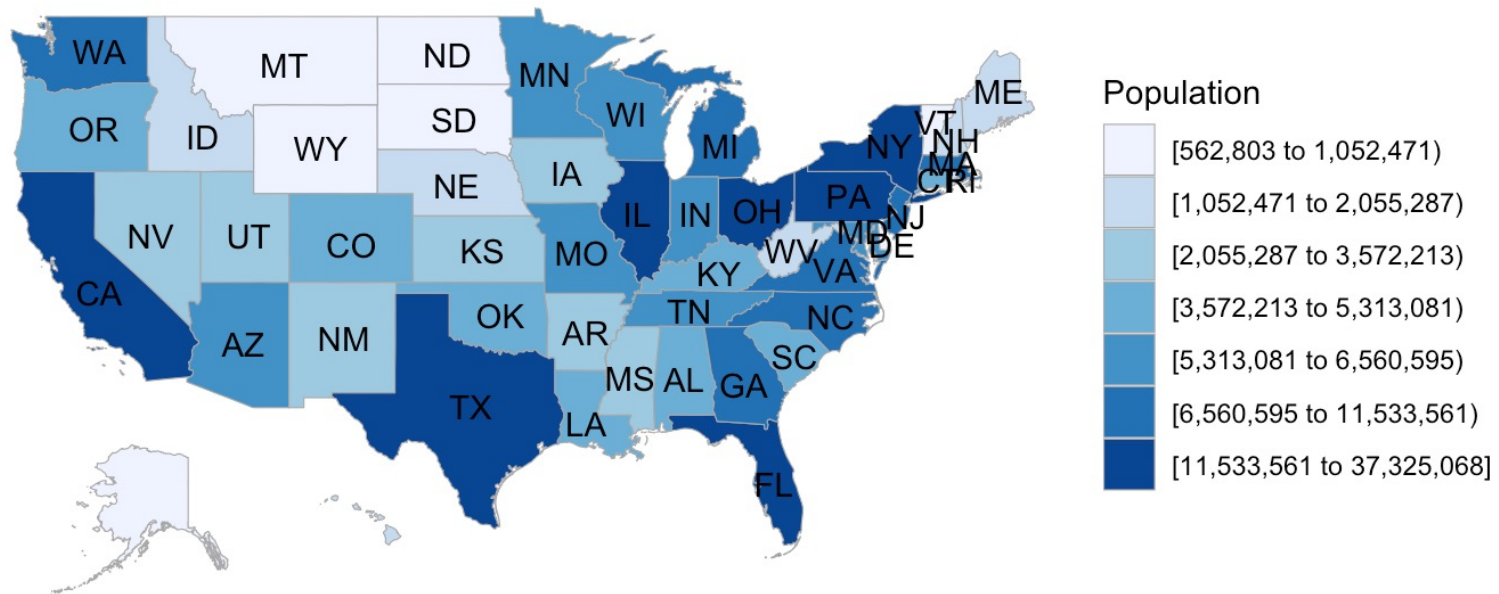
Visual Analytics: topics

- Visual Analytics as a science and theory of visualisation
- Use of visualisation packages in R
- Creation of interactive visual environments, including dashboards

Visual Analytics: schedule

- Lectures:
 - Monday morning: Visual Analytics Design Principles
 - Monday afternoon: Visualisation using ggplot2, a package in R
 - Tuesday morning: Creating Interactive Dashboards with Shiny
- Practicals:
 - Tuesday afternoon: live demo
 - Wednesday morning: do it yourself

2012 Population in US by states



Cases

Vaccines

14 days

Total

Northern Ireland ×

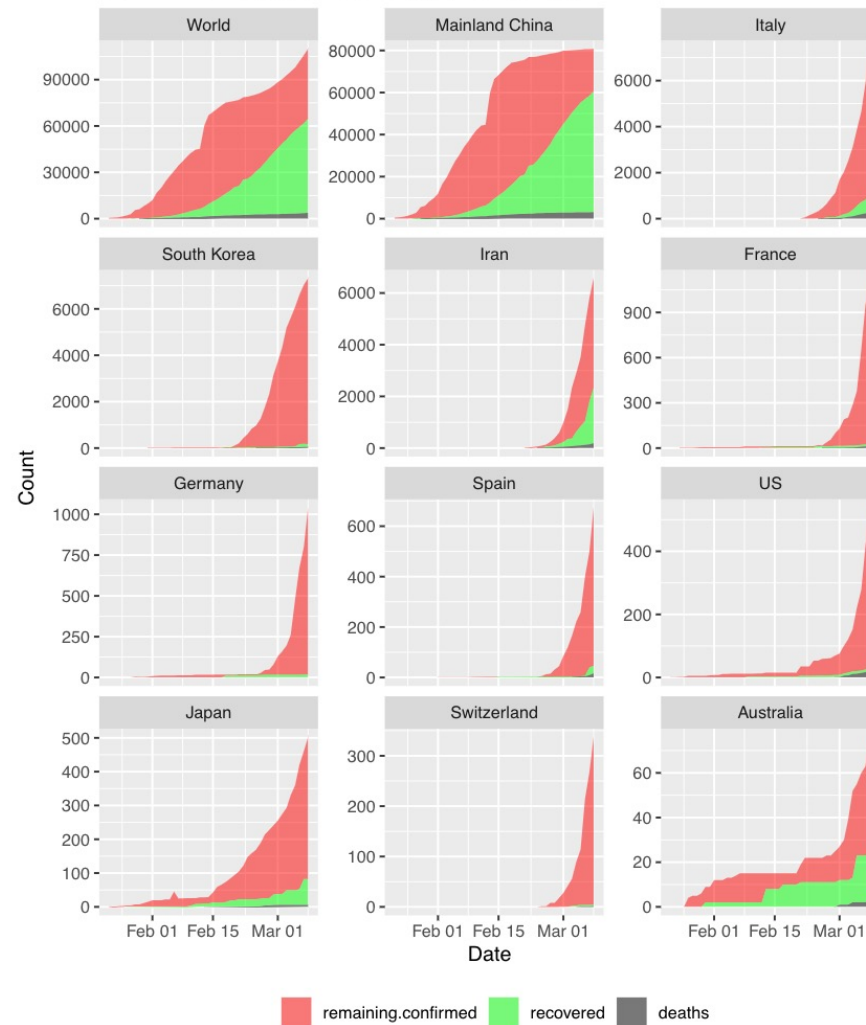
United Kingdom
13–26 Feb

Total cases **32,042**

Deaths **44**

Coronavirus (COVID-19)

COVID-19 Cases by Country (2020-03-08)



From the above figure, the coronavirus seems to be under control in China, with an increase of recovered cases (see the green area) every day and a shrinking of the remaining confirmed cases (based on official stats). However, in the rest of the world (i.e., outside of China), the confirmed cases are surging up in many other countries, which suggests that the virus has broke out there.