

Correlation between health and economy

HIV example

Context: The aim of our data visualization project is to produce a design that would help to understand the relationships between general health, economy and Geography. In this poster we are interested in HIV evolution.

The first visualization is a simple worldwide map. The idea is to identify regions of low/high life expectancy for example and their evolution. Then we add a bubble plot in order to study correlation between variables.

time slider to show evolution



xmin 0 xmax 8 ymin 0 ymax 0.003

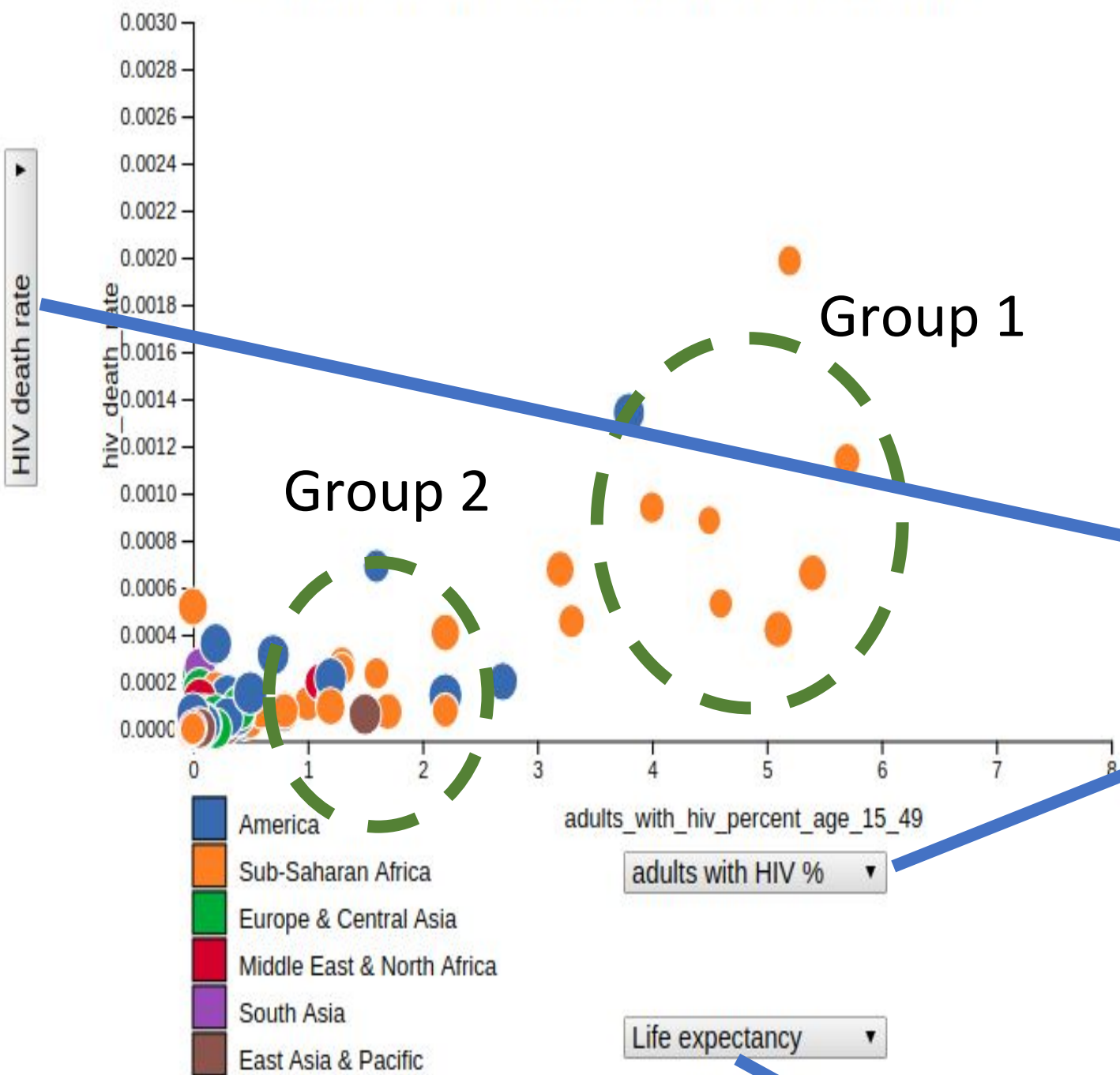
Worldwide Map



map color encoding

There are several variables available for each encoding. We added a “mouse over” functionality allowing user to follow a specific country

Correlation between HIV and health



color = country
discriminate
pre-attentively

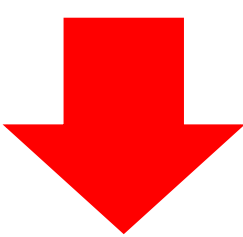
bubble radius encoding



2007

scale personification allow to zoom in on interesting areas

- Data chosen for the plot is HIV death rate vs adult with HIV rate
- Group 1 moves upward, group 2 moves upward right



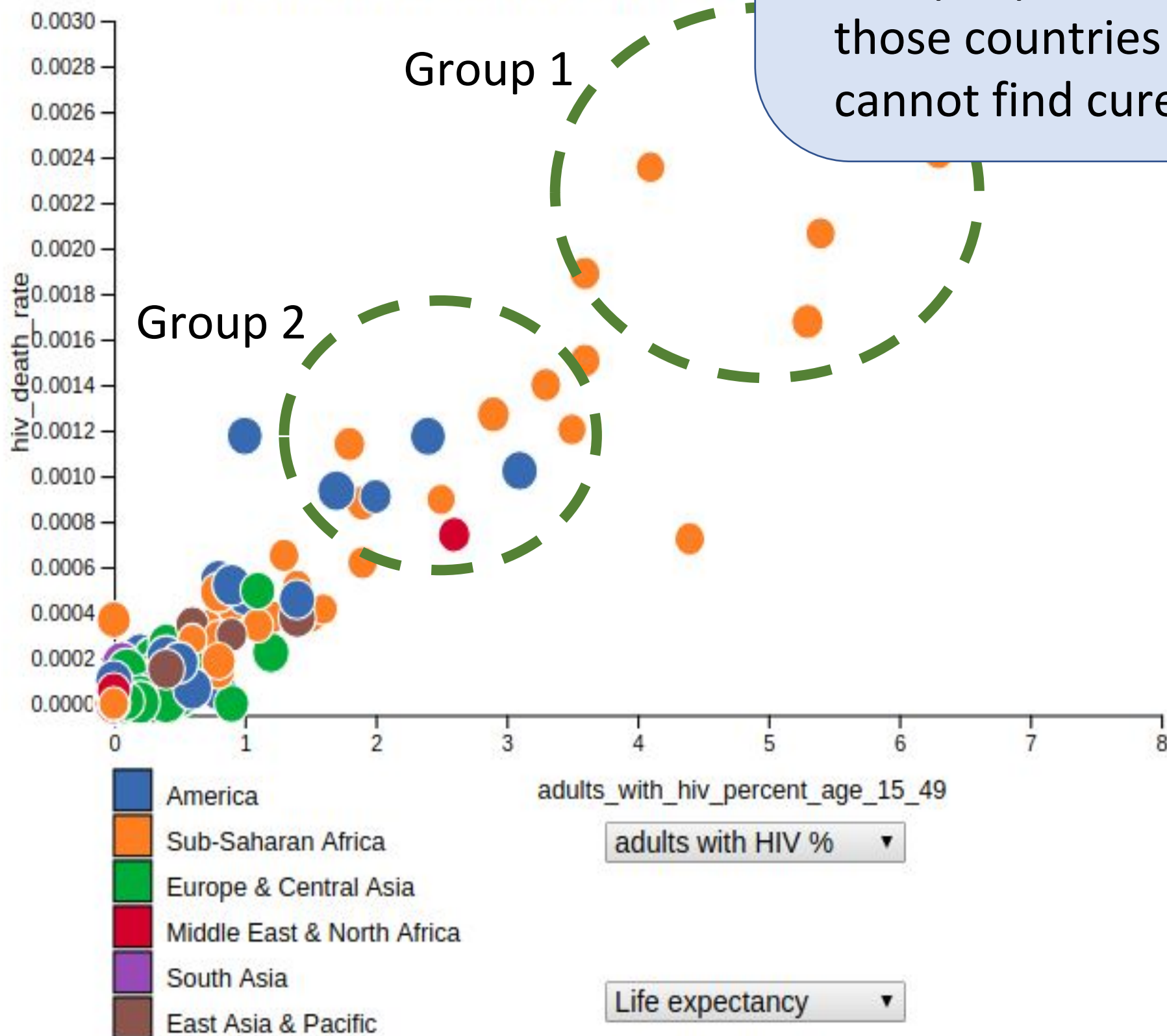
- HIV started to spread a lot in group 1 in the 1990's. HIV takes time to kill, so it took another 15 years to show on HIV death
- HIV spread in group 2 between 1991 and 2007.
- The trend from groups 1 and 2 show that people from those countries cannot find cures

Worldwide Map



Life expectancy

Correlation between HIV



Life expectancy