Surveillance System Maps

Toph Allen

September 2, 2015

Loading and cleaning data

This file contains time-series plots from the SoS database.

First, we load the SoS database and process the country columns. This uses a function found in the `column_cleaning_workflows.R` file, which matches each list of countries for each surveillance system to a set of countries.

```
# knitr::opts_chunk$set(message = FALSE)
```

```
library(plyr)
library(dplyr)
library(magrittr)
library(lubridate)
library(ggplot2)
library(devtools)

load_all()

data(sos_raw)

import_country_codes()

sosid <- paste0("SOS", 1:nrow(sos_raw))

countries <- clean_countries(sos_raw)
```

This gives us a data frame in which each column is a country, and each row is a surveillance system—it's a true-false matrix of surveillance system by country.

Counts of Surveillance Systems by Country.

We can create a table showing the number of surveillance systems in each country.

```
by_country <- countries %>%
  summarise_each(funs(n = sum(as.numeric(.)))) %>%
  t() %>% # Transpose it so that countries are rows.
  as.data.frame() %>%
  mutate(iso3 = rownames(.)) %>%
  arrange(desc(V1))
names(by_country)[1] <- "number_systems"
knitr::kable(head(by_country, 20))
```

number_systems	iso3
297	USA
64	GBR
55	CAN
49	AUS
42	NLD
40	FRA
33	SWE
32	ESP
32	ITA
31	DEU
29	BEL
26	FIN
25	DNK
25	IRL
25	GRC
25	NOR
23	HUN
22	ZAF
22	AUT
21	NZL