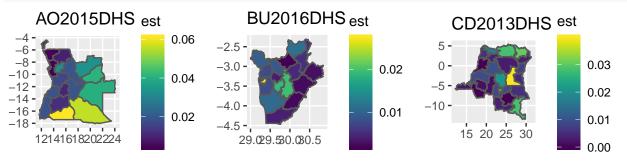
EDA for HIV prevelence survey data

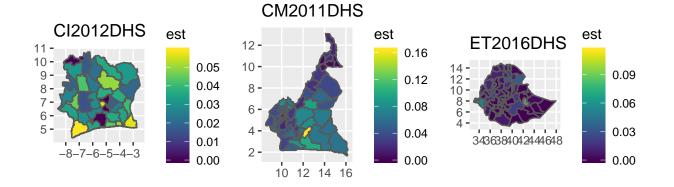
Adam Howes
June 2020

For example, plotting the raw estimates of prevelence from the first six surveys:

}

```
plots <- lapply(recent[1:6], est_plot)
plot_grid(plotlist = plots)</pre>
```





Visualisation of the graph that the adjacency matrix is based on for Malawi:

```
mw <- df %>%
  filter(survey_id == "MW2015DHS")

mw_sp <- mw %>%
  as("Spatial")

nb <- poly2nb(mw_sp) # Spatial neighbours object

nb_sf <- nb2lines(nb, coords = coordinates(mw_sp)) %>%
  as("sf") %>%
  st_set_crs(st_crs(mw))

ggplot(mw) +
  geom_sf(fill = "lightgrey", color = "white") +
  geom_sf(data = nb_sf) +
  labs(x = "Longitude", y = "Latitude")
```

