## agData Rapeseed Vignette

Derek Michael Wright derek.wright@usask.ca 2018-10-26

```
# devtools::install_github("derekmichaelwright/agData")
library(agData)
library(tidyverse)
```

## Rapeseed production

Improvements in oil quality, acheived through plant breeding has resulted in Rapeseed/Canola becoming one of the worlds major oil crops.

```
# Prep data
areas <- c("Europe", "China", "Canada", "India", "Australia")</pre>
cols <- c("darkblue", "darkred", "darkgoldenrod2", "darkgreen", "darkcyan")</pre>
xx <- agData_FAO_Crops %>%
  filter(Crop == "Rapeseed",
         Area %in% areas,
         Measurement == "Production") %>%
 mutate(Area = factor(Area, levels = areas))
ggplot(xx, aes(x = Year, y = Value / 1000000, color = Area)) +
  geom_line() +
  geom_point() +
  scale_color_manual(values = cols) +
  scale_x_continuous(breaks
                                  = seq(1960, 2015, by = 5),
                     minor_breaks = seq(1960, 2015, by = 5)) +
  theme(legend.position = "bottom") +
  labs(title = "Top Rapeseed Producers",
       y = "million tonnes", x = NULL)
```

## Top Rapeseed Producers 30 20 1960 1965 1970 1975 1980 1985 1990 1995 2000 2005 2010 2015 Area Europe China Canada India Australia

```
# Prep data
areas <- c("Germany", "Canada", "China", "India")
cols <- c("darkblue", "darkgoldenrod2", "darkred", "darkgreen")</pre>
```

## Top Rapeseed Producers

