Assembling an R Visualization Presentation
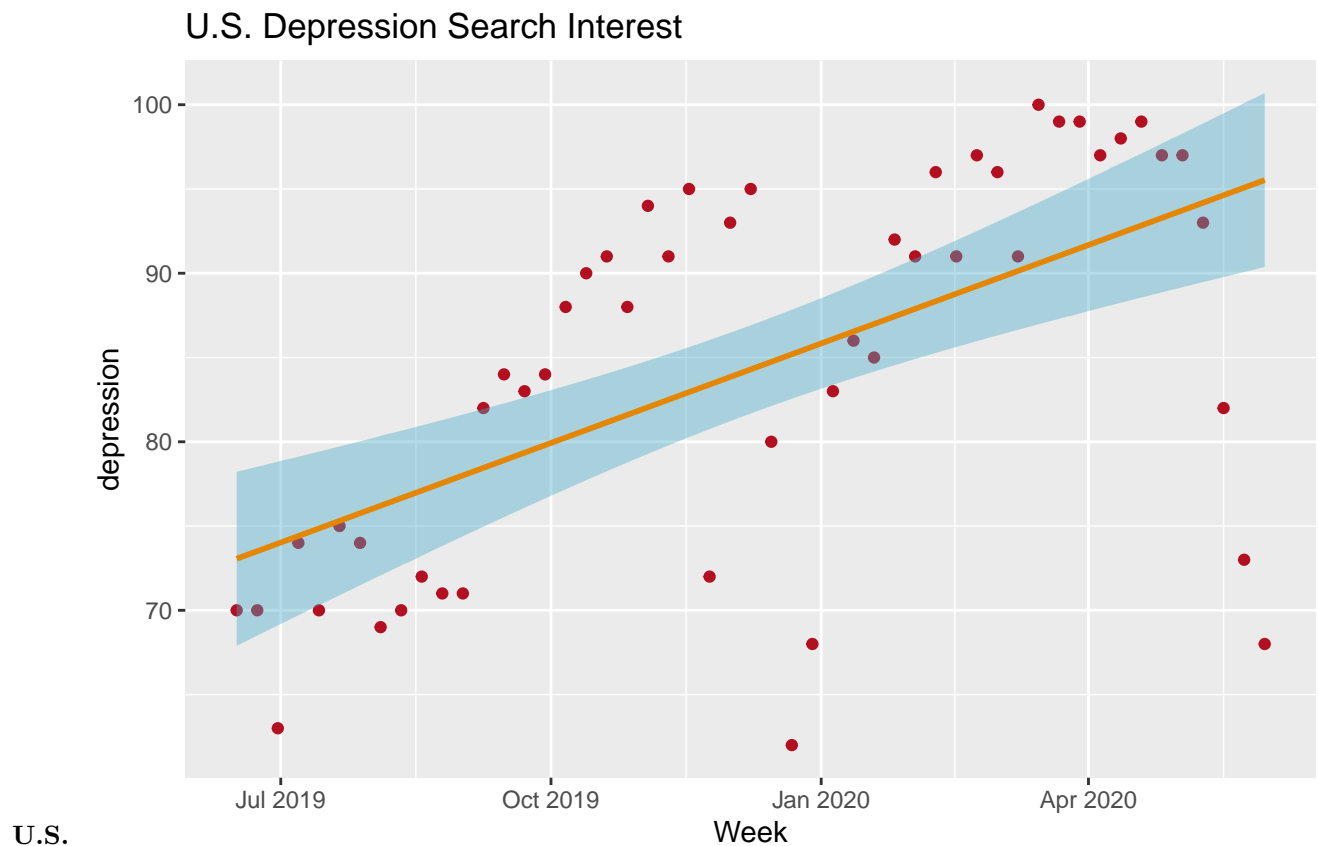
Mental Health Search Terms

The following graphs show the frequency of search terms related to mental health topics before and during the COVID-19 pandemic.

The data is produced from Google's search term frequency tool and the populations observed are from the U.S., Canada, and the U.K..
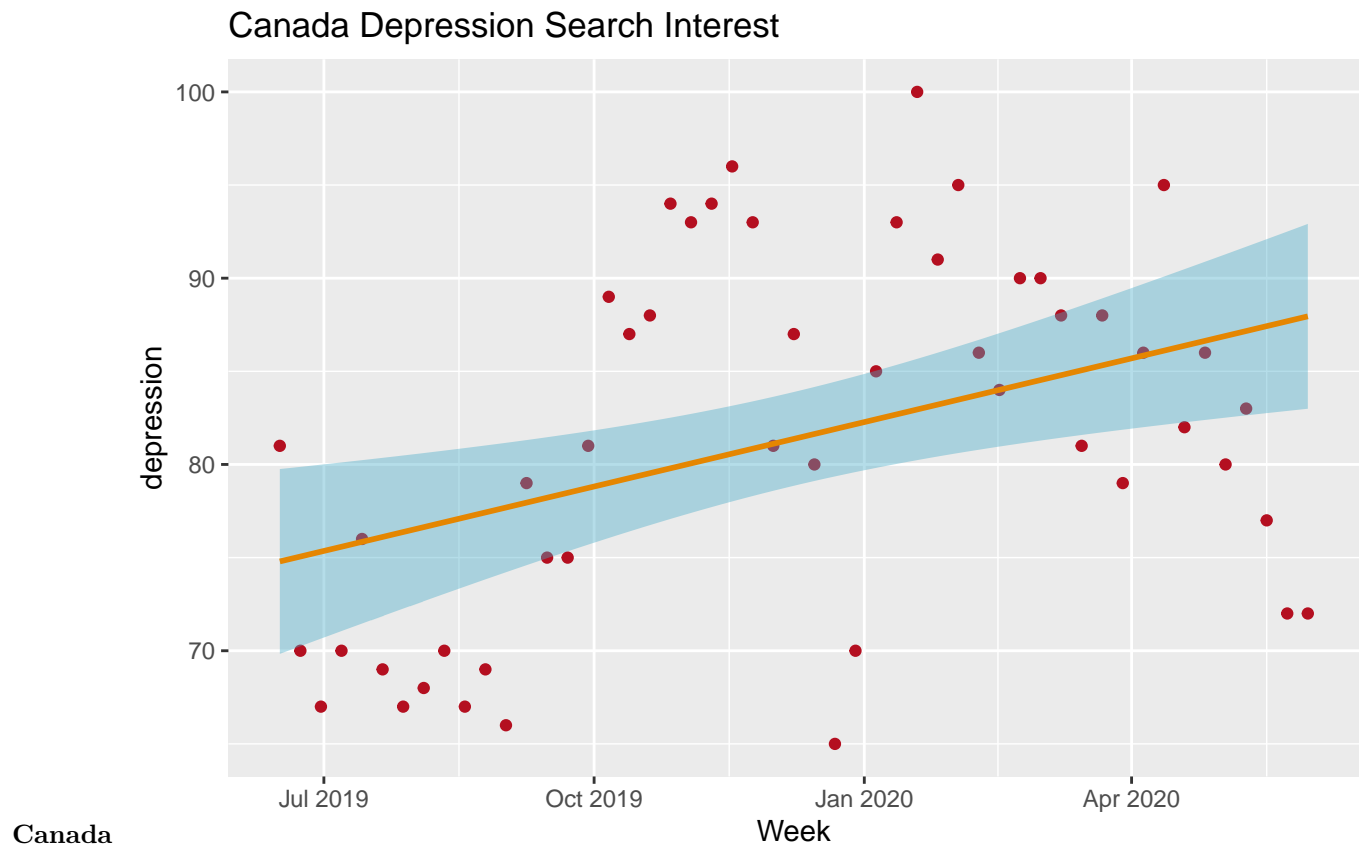
Depression

```r
us <- ggplot(df_us, aes(x = Week, y = depression)) +
  geom_point(color=wes_palettes$FantasticFox1[5]) +
  geom_smooth(method = lm, color = wes_palettes$FantasticFox1[4],
              fill=wes_palettes$FantasticFox1[3]) +
  labs(title = "U.S. Depression Search Interest")

us
```


U.S.

```
ca <- ggplot(df_ca, aes(x = Week, y = depression)) +
  geom_point(color=wes_palettes$FantasticFox1[5]) +
  geom_smooth(method = lm, color = wes_palettes$FantasticFox1[4],
              fill=wes_palettes$FantasticFox1[3]) +
  labs(title = "Canada Depression Search Interest")

ca
```
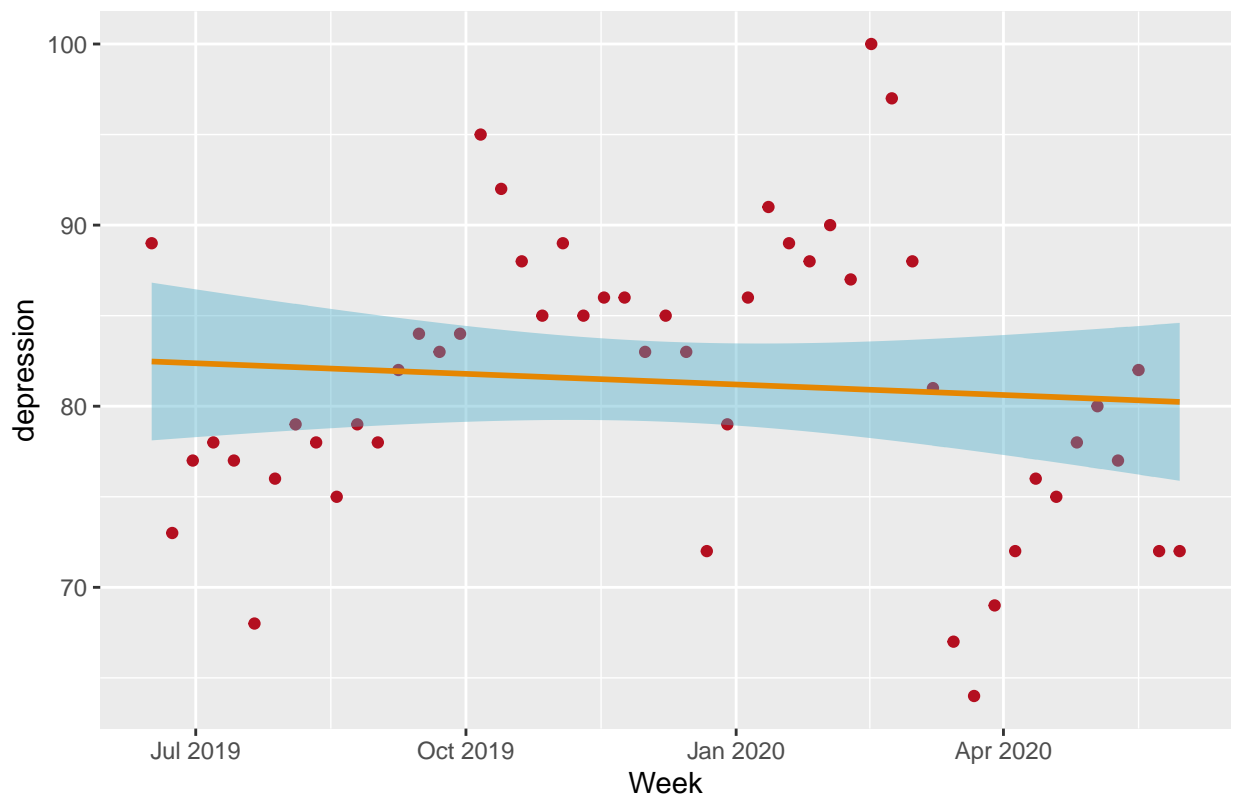

Canada

```
uk <- ggplot(df_uk, aes(x = Week, y = depression)) +
  geom_point(color=wes_palettes$FantasticFox1[5]) +
  geom_smooth(method = lm, color = wes_palettes$FantasticFox1[4],
              fill=wes_palettes$FantasticFox1[3]) +
  labs(title = "U.K. Depression Search Interest")

uk
```

U.K. Depression Search Interest
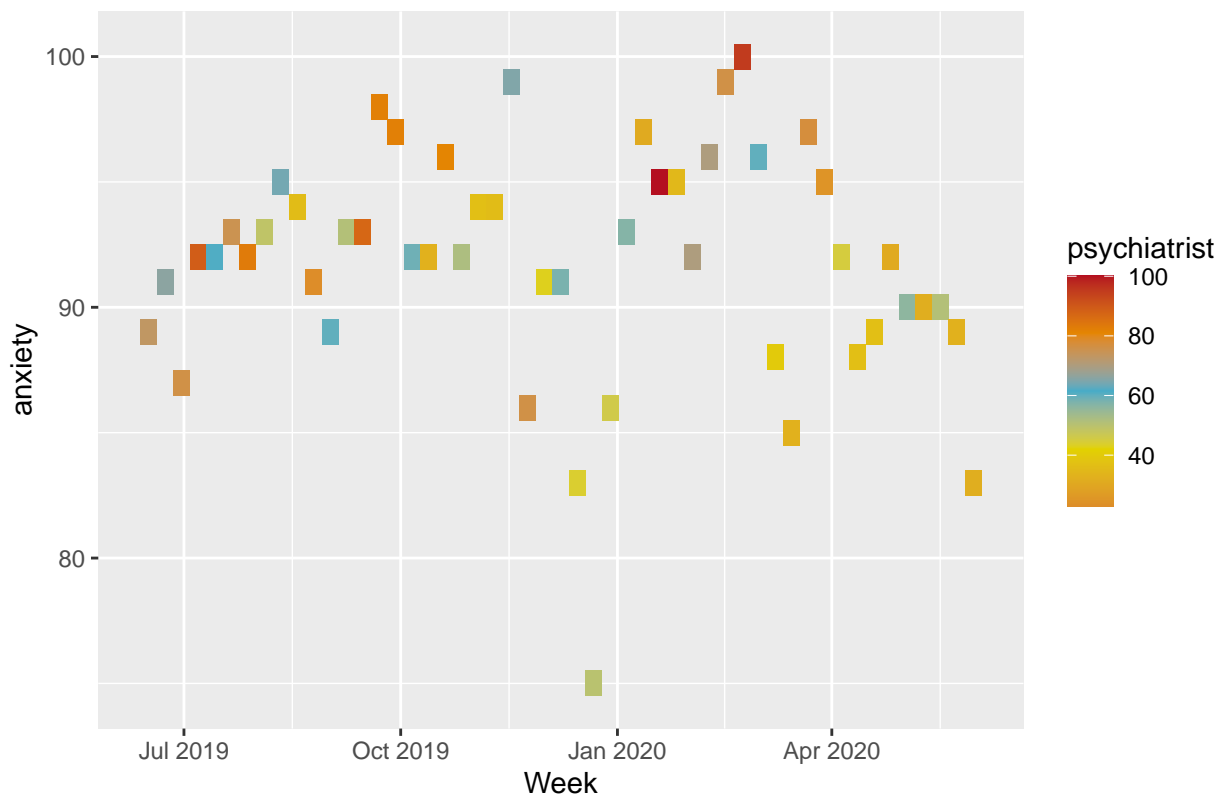

U.K.

Anxiety and Psychiatry

The following graphs will show the relationship between "anxiety" and "psychiatry" and how often these two search terms appear together with respect to time during the pandemic.

```r
us_psy <- ggplot(df_us, aes(x = Week, y = anxiety, fill = psychiatrist)) +
  geom_tile() +
  scale_fill_gradientn(colors = wes_palette("FantasticFox1", type="continuous")) +
  labs(title = "U.S. Anxiety and Psychiatrist Search Interest")

us_psy
```
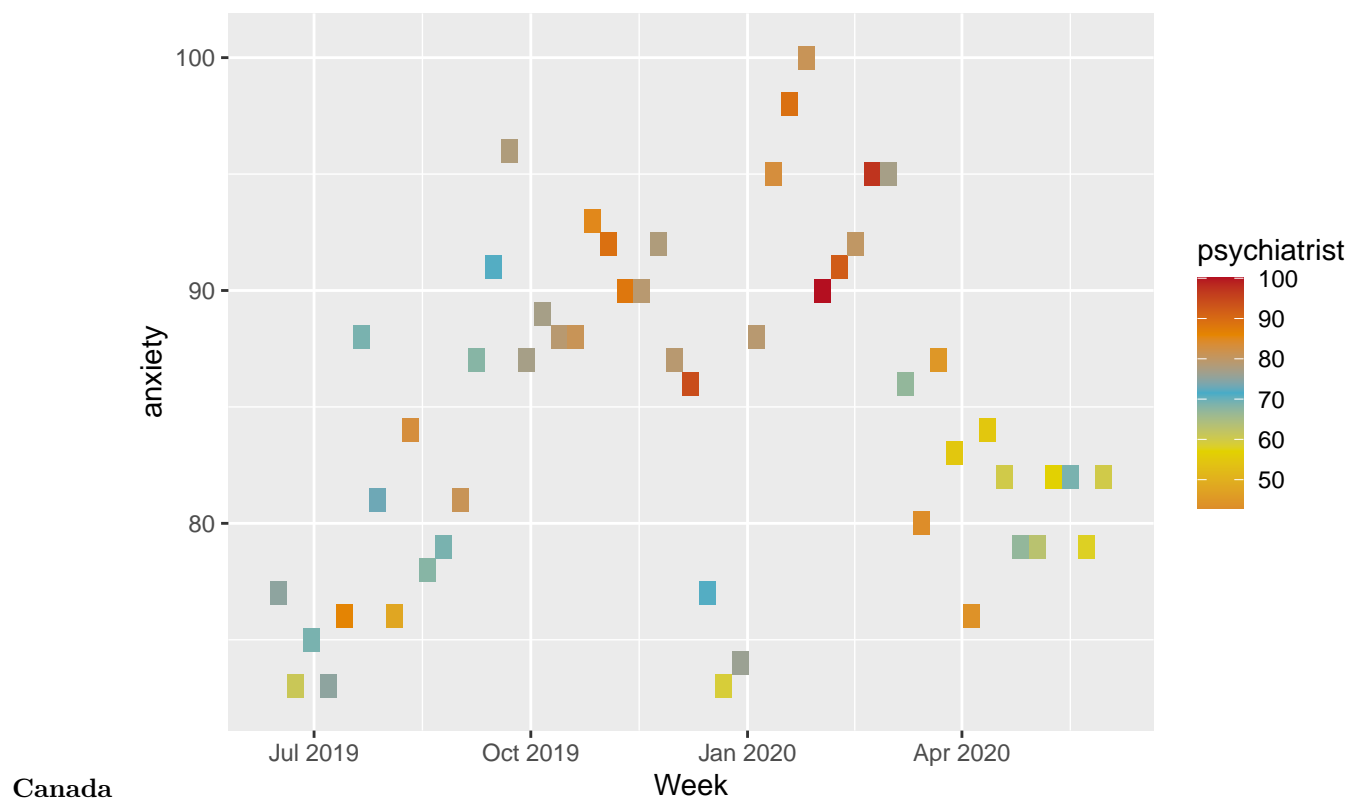
U.S. Anxiety and Psychiatrist Search Interest

```
ca_psy <- ggplot(df_ca, aes(x = Week, y = anxiety, fill = psychiatrist)) +
  geom_tile() +
  scale_fill_gradientn(colors = wes_palette("FantasticFox1", type="continuous")) +
  labs(title = "Canada Anxiety and Psychiatrist Search Interest")

ca_psy
```

Canada Anxiety and Psychiatrist Search Interest

Canada

```
uk_psy <- ggplot(df_uk, aes(x = Week, y = anxiety, fill = psychiatrist)) +
  geom_tile() +
  scale_fill_gradientn(colors = wes_palette("FantasticFox1", type="continuous")) +
  labs(title = "U.K. Anxiety and Psychiatrist Search Interest")

uk_psy
```

U.K. Anxiety and Psychiatrist Search Interest