

## Supplemental Material 2: Sample PCA code for Indigenous Canada

```
> install.packages("readxl")
--- Please select a CRAN mirror for use in this session ---
trying URL 'https://muug.ca/mirror/cran/bin/macosx/contrib/4.0/readxl_1.3.1.tgz'
Content type 'application/octet-stream' length 1676952 bytes (1.6 MB)
=====
downloaded 1.6 MB

The downloaded binary packages are in
/var/folders/2b/bqrbpl2521lf4b8hqjj_3bq40000gn/T//RtmpJ3CU3v/downloaded_packages
> install.packages("factoextra")
trying URL 'https://muug.ca/mirror/cran/bin/macosx/contrib/4.0/factoextra_1.0.7.tgz'
Content type 'application/octet-stream' length 415269 bytes (405 KB)
=====
downloaded 405 KB

The downloaded binary packages are in
/var/folders/2b/bqrbpl2521lf4b8hqjj_3bq40000gn/T//RtmpJ3CU3v/downloaded_packages
> library(readxl)
> library(factoextra)
Loading required package: ggplot2
Welcome! Want to learn more? See two factoextra-related books at https://goo.gl/ve3W8a
> indigenouscanada <- read_excel(file.choose(), 1)

> indigenouscanada.pca <- prcomp(indigenouscanada[,2:6]), center = TRUE, scale = TRUE)
> var <- get_pca_var(indigenouscanada.pca)
> options(ggrepel.max.overlaps = Inf)
> fviz_pca_var(indigenouscanada.pca, geom = c("point", "text"), labels = 3, col.var = "contrib", gradient.cols = c("#00AFBB", "#E7B800",
"#FC4E07"), repel = TRUE)
>
>
```