EDA\_Project

Stanly Wilson Palathingal

Install the required packages only for the first time.

#install.packages("ProjectTemplate")  
#install.packages("rmarkdown")

library(ProjectTemplate)

## Warning: package 'ProjectTemplate' was built under R version 3.4.4

library(rmarkdown)  
library(ggplot2)  
# create.project("EDA\_Project")

#setwd("C:/Users/HP/OneDrive - Newcastle University/Data management and exploratory Data Analysis/EDA\_Project/")  
#setwd("C:/Users/b9058657/OneDrive - Newcastle University/Data management and exploratory Data Analysis/EDA\_Project")  
load.project()

## Project name: EDA\_Project

## Loading project configuration

## Autoloading helper functions

## Running helper script: globals.R

## Running helper script: helpers.R

## Autoloading data

## Loading cached data set: cyber.security.1.enrolments

## Loading cached data set: cyber.security.1.leaving.survey.responses

## Loading cached data set: cyber.security.1.question.response

## Loading cached data set: cyber.security.1.step.activity

## Loading cached data set: cyber.security.1.weekly.sentiment.survey.responses

## Loading cached data set: cyber.security.2.archetype.survey.responses

## Loading cached data set: cyber.security.2.enrolments

## Loading cached data set: cyber.security.2.leaving.survey.responses

## Loading cached data set: cyber.security.2.question.response

## Loading cached data set: cyber.security.2.step.activity

## Loading cached data set: cyber.security.2.team.members

## Loading cached data set: cyber.security.2.weekly.sentiment.survey.responses

## Loading cached data set: cyber.security.3.archetype.survey.responses

## Loading cached data set: cyber.security.3.enrolments

## Loading cached data set: cyber.security.3.leaving.survey.responses

## Loading cached data set: cyber.security.3.question.response

## Loading cached data set: cyber.security.3.step.activity

## Loading cached data set: cyber.security.3.team.members

## Loading cached data set: cyber.security.3.video.stats

## Loading cached data set: cyber.security.3.weekly.sentiment.survey.responses

## Loading cached data set: cyber.security.4.archetype.survey.responses

## Loading cached data set: cyber.security.4.enrolments

## Loading cached data set: cyber.security.4.leaving.survey.responses

## Loading cached data set: cyber.security.4.question.response

## Loading cached data set: cyber.security.4.step.activity

## Loading cached data set: cyber.security.4.team.members

## Loading cached data set: cyber.security.4.video.stats

## Loading cached data set: cyber.security.4.weekly.sentiment.survey.responses

## Loading cached data set: cyber.security.5.archetype.survey.responses

## Loading cached data set: cyber.security.5.enrolments

## Loading cached data set: cyber.security.5.leaving.survey.responses

## Loading cached data set: cyber.security.5.question.response

## Loading cached data set: cyber.security.5.step.activity

## Loading cached data set: cyber.security.5.team.members

## Loading cached data set: cyber.security.5.video.stats

## Loading cached data set: cyber.security.5.weekly.sentiment.survey.responses

## Loading cached data set: cyber.security.6.archetype.survey.responses

## Loading cached data set: cyber.security.6.enrolments

## Loading cached data set: cyber.security.6.leaving.survey.responses

## Loading cached data set: cyber.security.6.question.response

## Loading cached data set: cyber.security.6.step.activity

## Loading cached data set: cyber.security.6.team.members

## Loading cached data set: cyber.security.6.video.stats

## Loading cached data set: cyber.security.6.weekly.sentiment.survey.responses

## Loading cached data set: cyber.security.7.archetype.survey.responses

## Loading cached data set: cyber.security.7.enrolments

## Loading cached data set: cyber.security.7.leaving.survey.responses

## Loading cached data set: cyber.security.7.question.response

## Loading cached data set: cyber.security.7.step.activity

## Loading cached data set: cyber.security.7.team.members

## Loading cached data set: cyber.security.7.video.stats

## Loading cached data set: cyber.security.7.weekly.sentiment.survey.responses

## Munging data

## Running preprocessing script: 01-A.R

archetype7= read.csv("data/cyber-security-7\_archetype-survey-responses.csv")  
archetype6= read.csv("data/cyber-security-6\_archetype-survey-responses.csv")  
archetype5= read.csv("data/cyber-security-5\_archetype-survey-responses.csv")  
archetype4= read.csv("data/cyber-security-4\_archetype-survey-responses.csv")  
archetype3= read.csv("data/cyber-security-3\_archetype-survey-responses.csv")

a7=data.frame("year"= 2017,"learner\_id"= archetype7$learner\_id,"archetype"= archetype7$archetype)  
a6=data.frame("year"= 2016,"learner\_id"= archetype6$learner\_id,"archetype"= archetype6$archetype)  
a5=data.frame("year"= 2015,"learner\_id"= archetype5$learner\_id,"archetype"= archetype5$archetype)  
a4=data.frame("year"= 2014,"learner\_id"= archetype4$learner\_id,"archetype"= archetype4$archetype)  
a3=data.frame("year"= 2013,"learner\_id"= archetype3$learner\_id,"archetype"= archetype3$archetype)  
  
t=rbind(a3,a4,a5,a6,a7)  
head(t)

## year learner\_id archetype  
## 1 2013 0cc306ec-c90b-41be-85c1-0c3351d86241 Fixers  
## 2 2013 9924483b-7932-499d-b7c5-aad759a2ede7 Fixers  
## 3 2013 32e82b57-ccf7-468c-a86f-a4eb5a9bc62c Vitalisers  
## 4 2013 c474fdb2-4b4d-4a68-9343-92851793197b Explorers  
## 5 2013 ffbaa395-4649-49fc-a95d-d8752d4e98aa Advancers  
## 6 2013 4ae58e18-fbda-4024-8c50-ca9632674592 Vitalisers

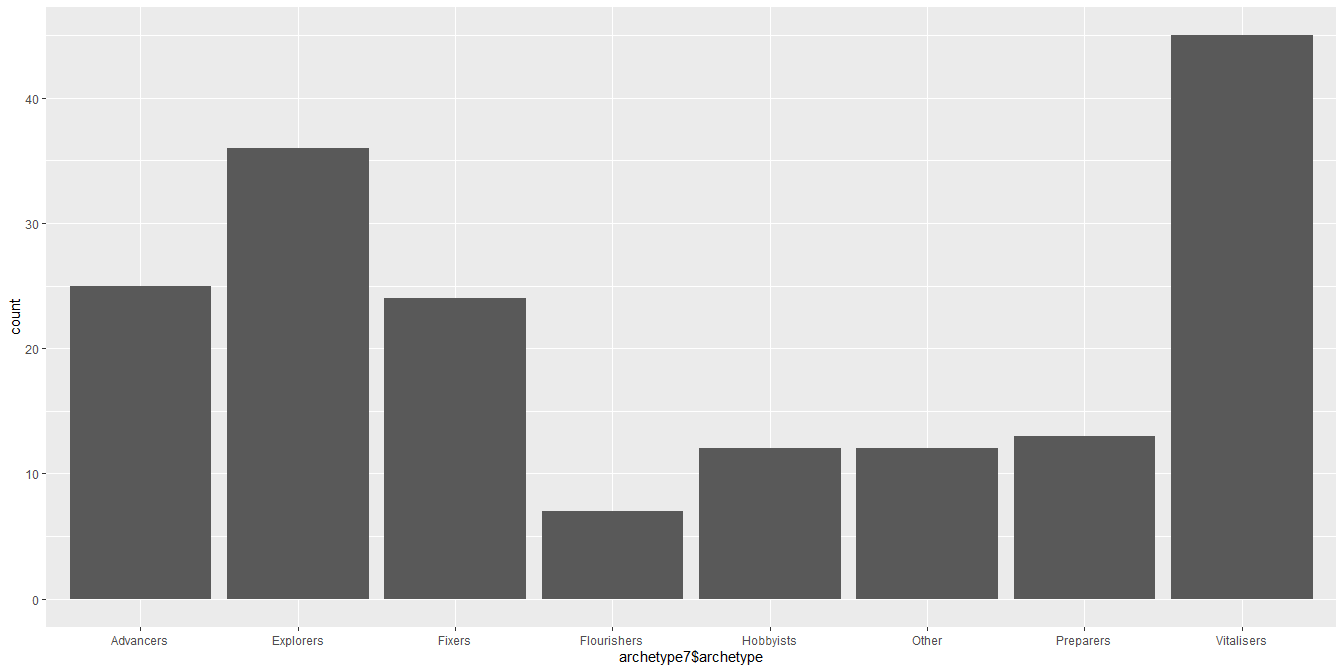
(total=table(t$archetype))

##   
## Advancers Explorers Fixers Flourishers Hobbyists Other   
## 172 208 136 43 96 94   
## Vitalisers Preparers   
## 237 88

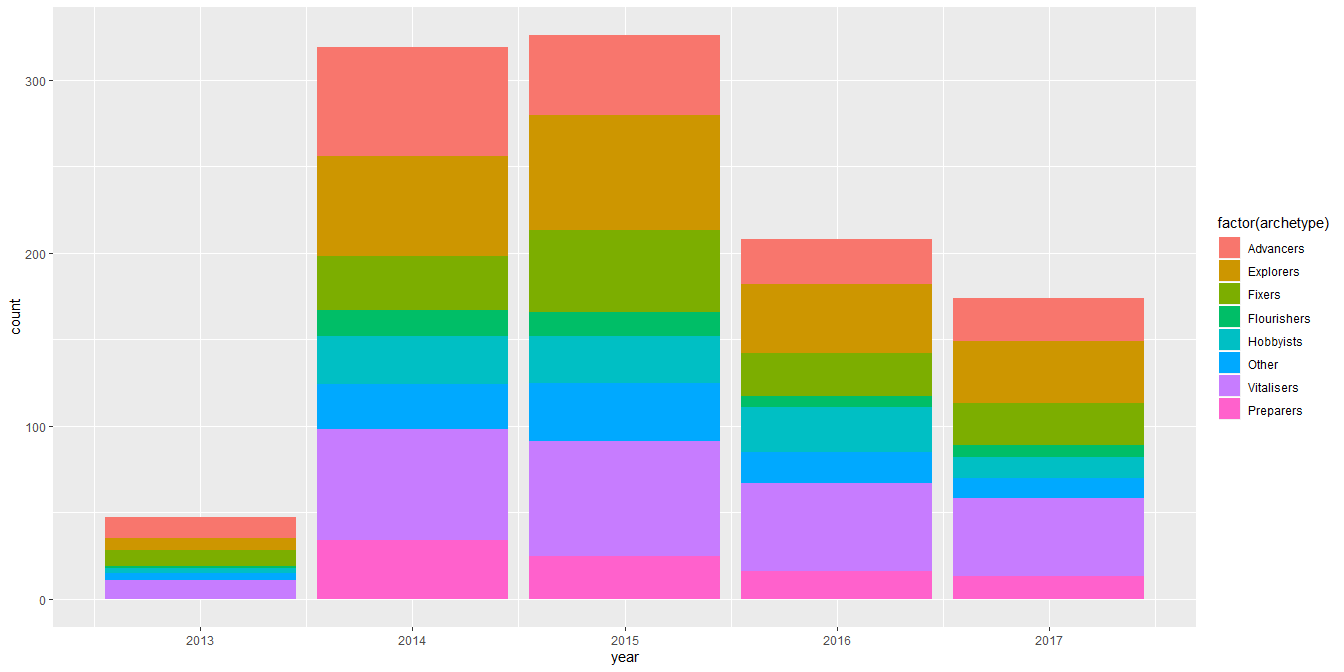
sum(total)

## [1] 1074

ggplot(data=archetype7,aes(archetype7$archetype)) + geom\_bar()



ggplot(data=t) + geom\_bar(aes(x=year,fill=factor(archetype)))



ggplot(data=t) + geom\_bar(aes(x=year,fill=factor(archetype)), position = position\_dodge(preserve = 'single'))

