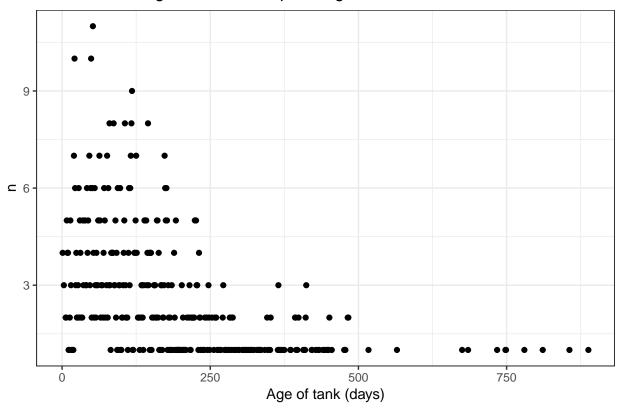
Does Age correlate with ability to spawn?

```
SpawnDF <- read_csv(file="Data/SpawningData20180327.csv")</pre>
## Parsed with column specification:
## cols(
     `Spawn Date` = col_date(format = ""),
##
     Incubator = col_character(),
     `Start Date` = col_character(),
##
     `End Date` = col_character(),
     `Tank Name` = col_character(),
##
##
     Male = col_character(),
##
     Female = col_character(),
##
     `Spawn Type` = col_character(),
     `Time Found` = col_character(),
##
##
     Cleavage = col_character(),
##
     `Day of Cycle` = col integer(),
     `Total # of tanks` = col_integer(),
##
     Notes = col_character()
## )
colnames(SpawnDF) <- c("Spawn.Date", "Incubator", "Start.Date", "End.Date", "Tank.Name", "Male", "Femal</pre>
SpawnDF$`Spawn.Date` <- as.Date(SpawnDF$`Spawn.Date`, "%m/%d/%y")
SpawnDF$Start.Date <- as.Date(SpawnDF$Start.Date, "%m/%d/%y")
## Warning in strptime(x, format, tz = "GMT"): unknown timezone 'zone/tz/
## 2018c.1.0/zoneinfo/America/Los Angeles'
SpawnDF$End.Date <- as.Date(SpawnDF$End.Date, "%m/%d/%y")
levels(SpawnDF$Spawn.Type) <- c("eggs", "sperm", "embryos", "larvae")</pre>
SpawnDF %>% mutate(age_Days = Spawn.Date - Start.Date) %% filter(age_Days > 0) %>%
  count(age Days) %>%
  ggplot( aes(x=age_Days, y=n)) +
  geom_point() +
 theme_bw() +
  ggtitle("Correlation of age of tank with spawning amount") +
  xlab("Age of tank (days)")
```

Don't know how to automatically pick scale for object of type difftime. Defaulting to continuous.

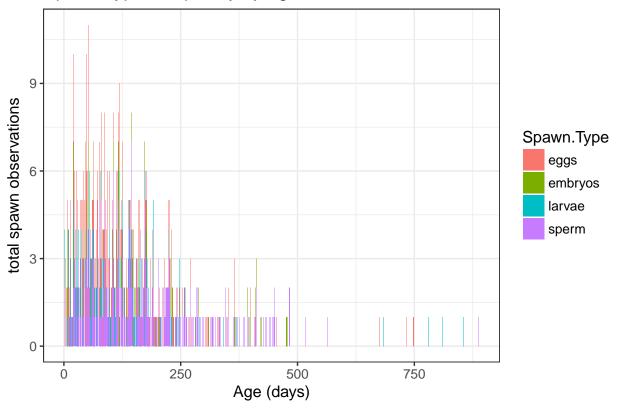
Correlation of age of tank with spawning amount



```
p<-SpawnDF %>% mutate(age_Days = Spawn.Date - Start.Date) %>% filter(age_Days > 0) %>%
    group_by(age_Days) %>%
    count(Spawn.Type) %>%
    ggplot( aes(x=age_Days, y=n, fill=Spawn.Type)) +
        geom_bar(stat = "identity") +
        ggtitle("Spawn Type Frequency by age of tank") +
        ylab("total spawn observations") + xlab("Age (days)") +
        theme_bw() + theme(text = element_text(size = 12))
```

Don't know how to automatically pick scale for object of type difftime. Defaulting to continuous.

Spawn Type Frequency by age of tank



```
#Zoom in
p + coord_cartesian(xlim=c(0,250)) +ggtitle("Zoom in")
```

Don't know how to automatically pick scale for object of type difftime. Defaulting to continuous.

