descriptive statistics

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2/25/2021

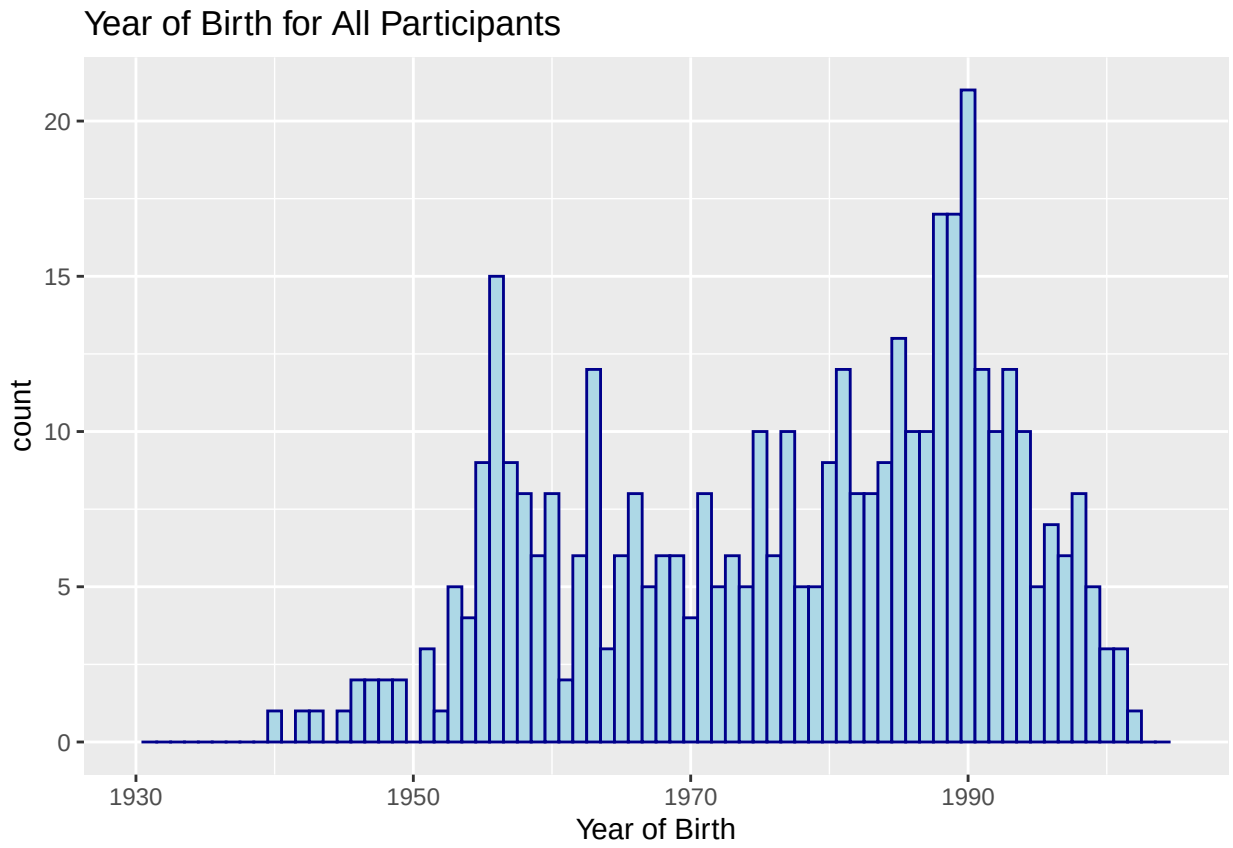
```
make_plots =  function(dat,breakdown){
  for (col in dat){
    #mfrow=c(2,1)
    title_1 = name(col) + "for All Participants"
    ggplot(clean_dat, aes(x=col)) + geom_histogram(binwidth = 1,color="darkblue", fill="lightblue") + xl
  title_2 = col+"by" + breakdown
  ggplot(clean_dat, aes(x=col, color=breakdown, fill=bucketed_gender)) + geom_histogram(binwidth = 1,pos
  }
}
```

Descriptive Statistics

```
#age stuff
#View(clean_dat)
clean_dat$yob = strtoi(clean_dat$birth.year)
#View(clean_dat$yob)
ggplot(clean_dat, aes(x=yob)) + geom_histogram(binwidth = 1,color="darkblue", fill="lightblue") + xlim(
```

```
## Warning: Removed 65 rows containing non-finite values (stat_bin).
```

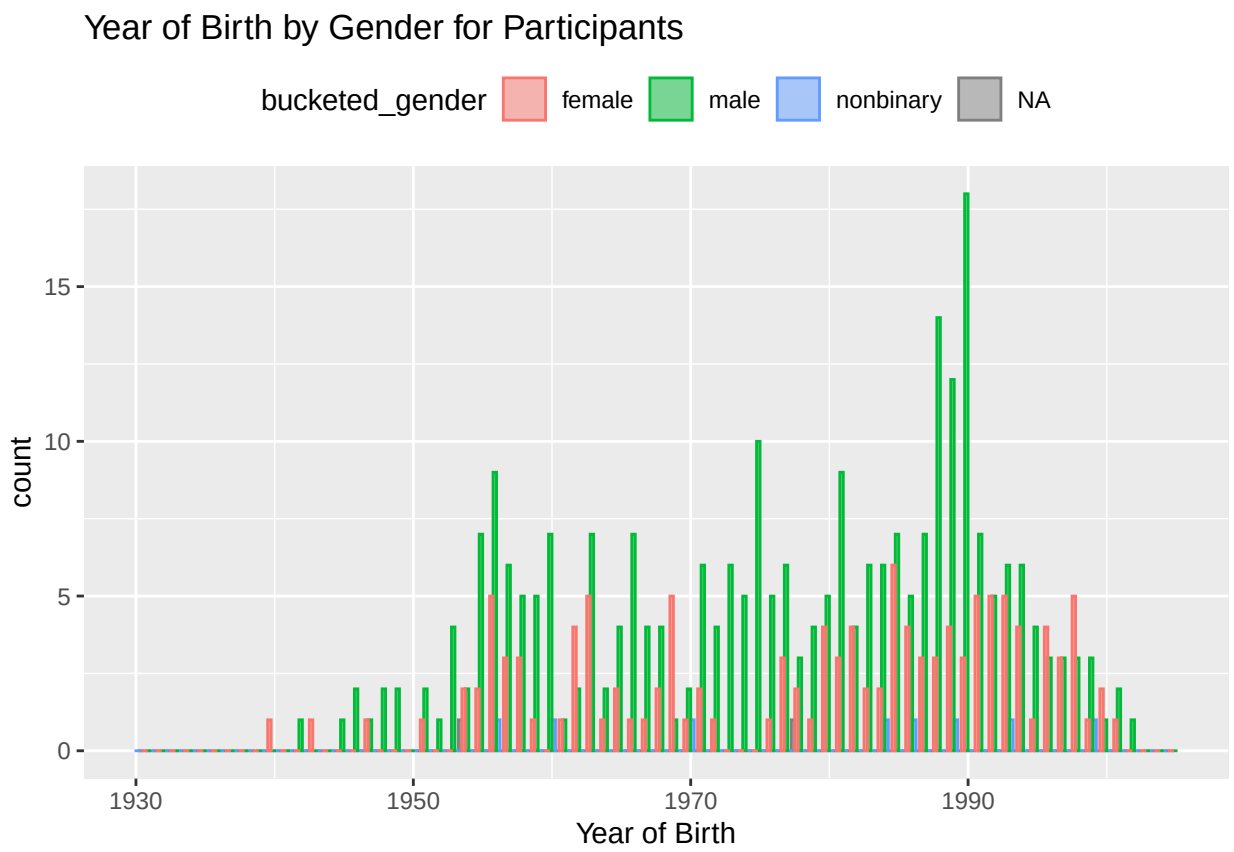
```
## Warning: Removed 2 rows containing missing values (geom_bar).
```




```
ggplot(clean_dat, aes(x=yob, color=bucketed_gender, fill=bucketed_gender)) + geom_histogram(binwidth = 
```

```
## Warning: Removed 65 rows containing non-finite values (stat_bin).
```

```
## Warning: Removed 4 rows containing missing values (geom_bar).
```

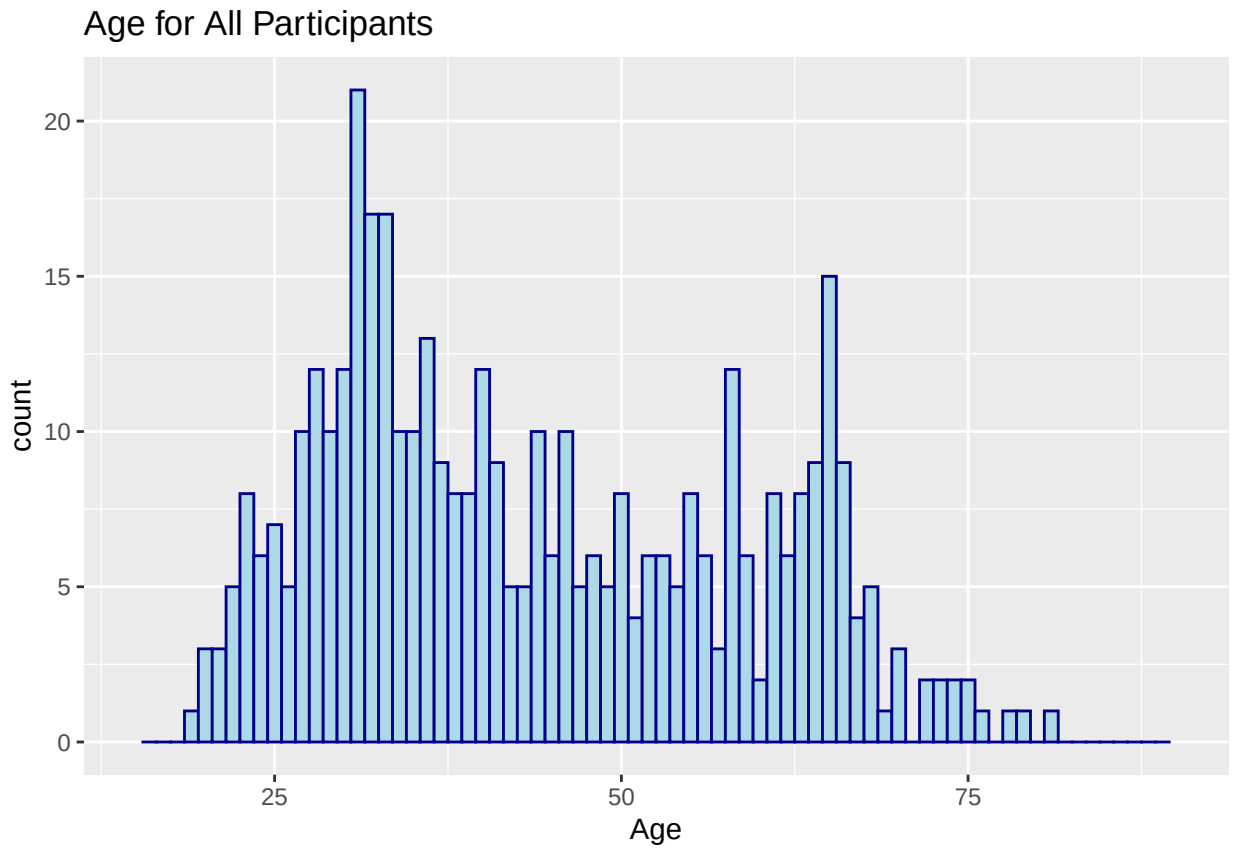



```
#make_plots(clean_dat,bucketed_gender)
```

```
ggplot(clean_dat, aes(x=age)) + geom_histogram(binwidth = 1,color="darkblue", fill="lightblue") + xlim(
```

```
## Warning: Removed 65 rows containing non-finite values (stat_bin).
```

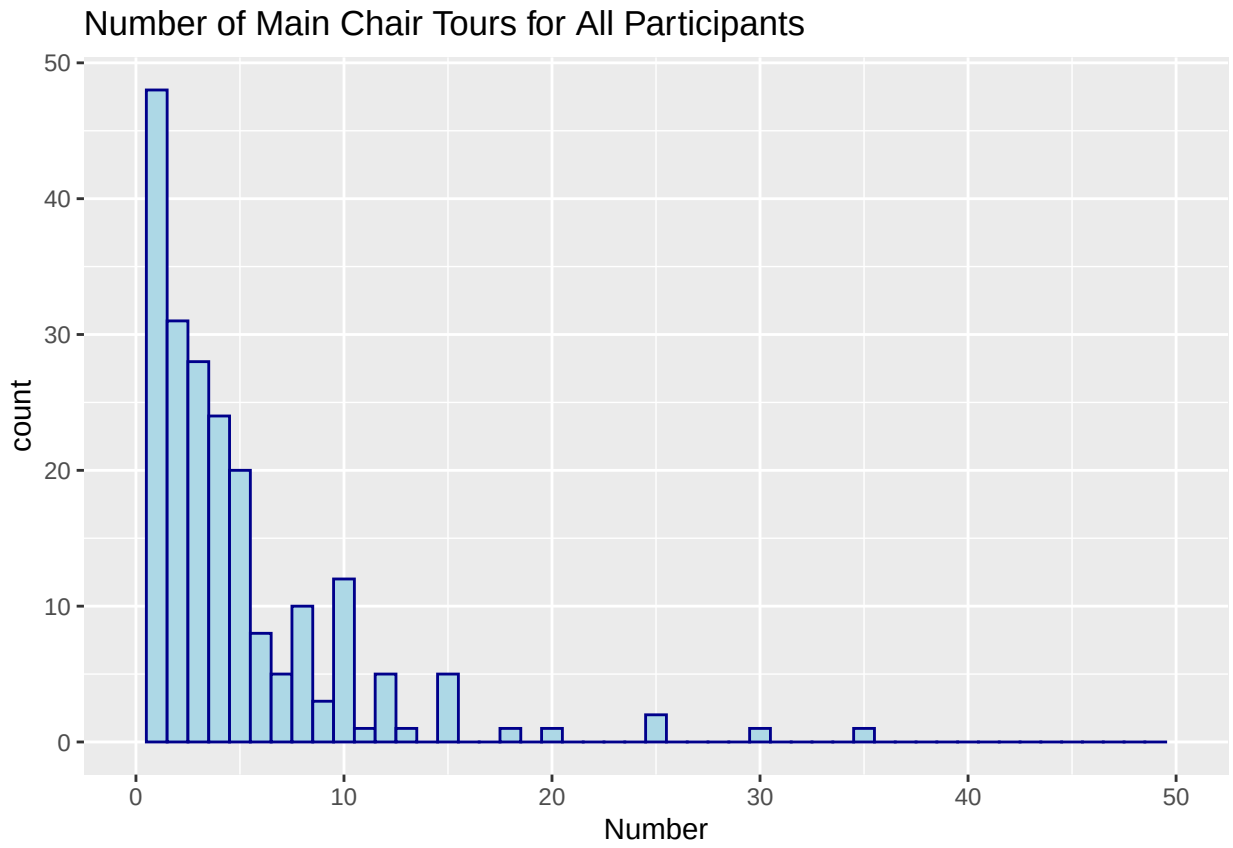
```
## Warning: Removed 2 rows containing missing values (geom_bar).
```




```
ggplot(clean_dat, aes(x=main.chair)) + geom_histogram(binwidth = 1,color="darkblue", fill="lightblue") +
```

```
## Warning: Removed 264 rows containing non-finite values (stat_bin).
```

```
## Warning: Removed 2 rows containing missing values (geom_bar).
```




```
library(Amelia)
```

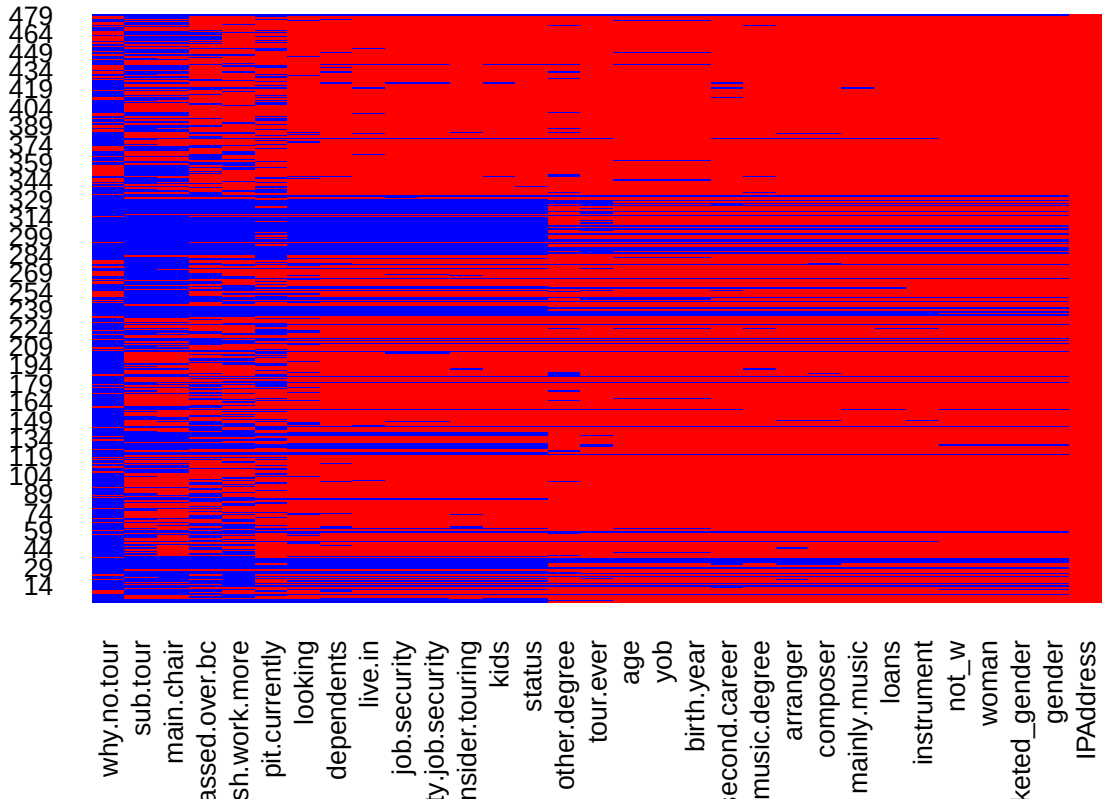
```
## Warning: package 'Amelia' was built under R version 3.5.2
```

```
## Loading required package: Rcpp
```

```
## Warning: package 'Rcpp' was built under R version 3.5.2
```

```
## ##
## ## Amelia II: Multiple Imputation
## ## (Version 1.7.6, built: 2019-11-24)
## ## Copyright (C) 2005-2021 James Honaker, Gary King and Matthew Blackwell
## ## Refer to http://gking.harvard.edu/amelia/ for more information
## ##
```

```
library(mlbench)
missmap(clean_dat, col=c("blue", "red"), legend=FALSE)
```



Instrument Breakdown

```
ins = poi %>% group_by(violin,viola) %>% summarize(count = n())
ins
```

```
## # A tibble: 3 x 3
## # Groups:   violin [2]
##   violin viola count
##    <dbl> <dbl> <int>
## 1      0     0  1003
## 2      0     1    11
## 3      1     0    23
```