experimentrPersuasion

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Experiment Details

Loading and Setup

```
## Warning: package 'ggplot2' was built under R version 3.2.5
## Warning: package 'dplyr' was built under R version 3.2.5
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
       filter, lag
##
## The following objects are masked from 'package:base':
##
##
       intersect, setdiff, setequal, union
## Warning: package 'coin' was built under R version 3.2.5
## Loading required package: survival
## Warning: package 'pwr' was built under R version 3.2.3
## Warning: package 'shiny' was built under R version 3.2.5
## Warning: package 'miniUI' was built under R version 3.2.5
## Warning: package 'boot' was built under R version 3.2.5
## Attaching package: 'boot'
## The following object is masked from 'package:survival':
##
##
       aml
## Warning: package 'tidyr' was built under R version 3.2.5
## Warning: package 'irr' was built under R version 3.2.3
## Loading required package: lpSolve
## Warning: package 'lpSolve' was built under R version 3.2.3
## Warning: package 'reshape2' was built under R version 3.2.5
```

Conversions and Filtering

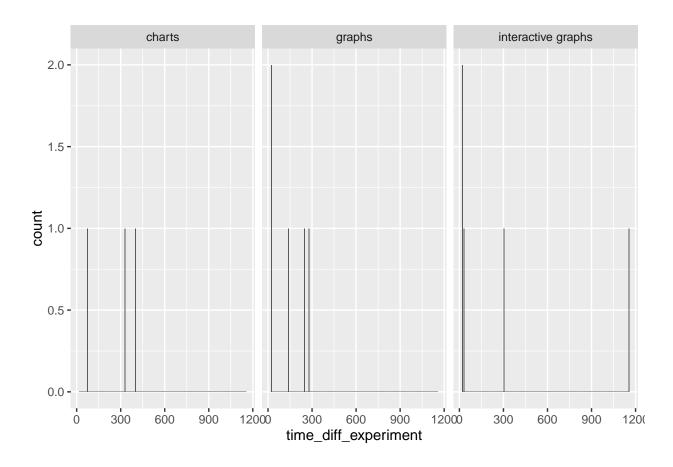
```
data$time_diff_experiment <- data$time_diff_experiment/1000</pre>
data$time_diff_demo <- data$time_diff_demo/1000</pre>
data$time_diff_preTest <- data$time_diff_preTest/1000</pre>
data$time_diff_attentionCheck <- data$time_diff_attentionCheck/1000</pre>
\# data\$time\_diff\_postTest \leftarrow data\$time\_diff\_postTest/1000
data$time_diff_qualitative <- data$time_diff_qualitative/1000</pre>
#seperate out attentioncheck
correct1Data <- subset(data, topic=="VideoGames")</pre>
correct2Data <- subset(correct1Data, subtopic=="violence")</pre>
# seperate by graph type
charts <- subset(correct2Data, visType=="charts")</pre>
interactiveGraphs <- subset(correct2Data, visType=="interactive graphs")</pre>
graphs <- subset(correct2Data, visType=="graphs")</pre>
#seperate out the correct attention check
correctCharts <- subset(charts, displayType=="tables")</pre>
correctInteractiveGraphs <- subset(interactiveGraphs, displayType=="graphs")</pre>
correctGraphs <- subset(graphs, displayType=="graphs")</pre>
```

Histograms

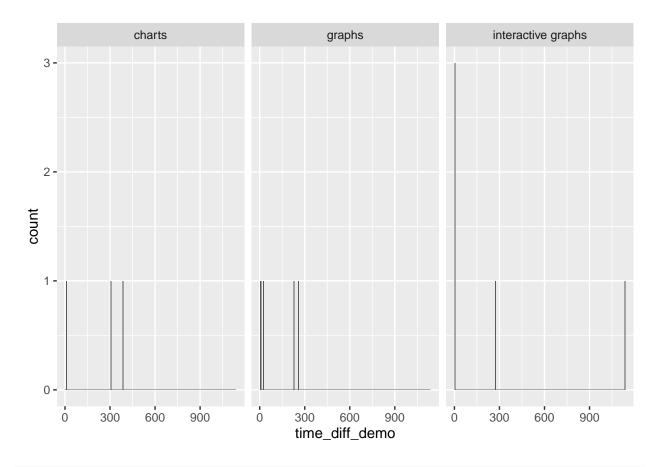
```
report(correct2Data, "time_diff_experiment")

## M=234.4,sd=309.3,Mdn=138.5,mad=175.2

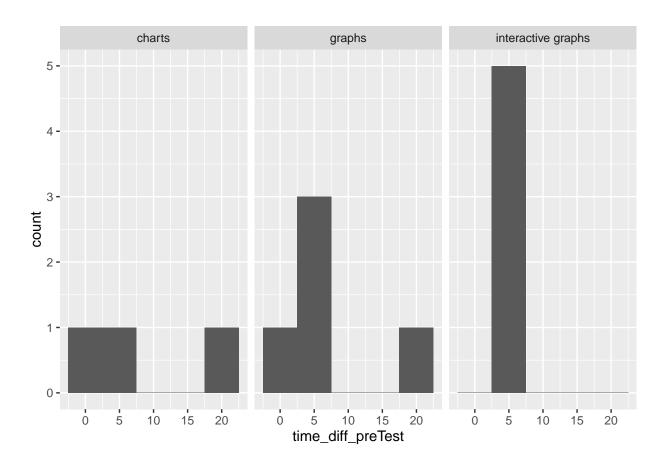
ggplot(correct2Data, aes(time_diff_experiment)) + geom_histogram( binwidth=5 ) + facet_grid(. ~ visType
```



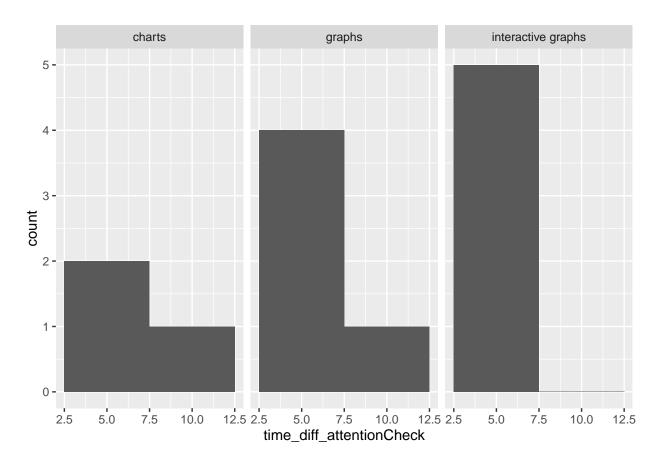
ggplot(correct2Data, aes(time_diff_demo)) + geom_histogram(binwidth=5) + facet_grid(. ~ visType)



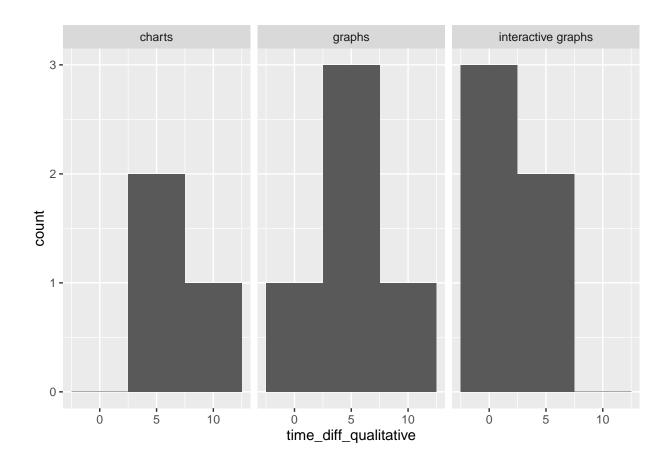
ggplot(correct2Data, aes(time_diff_preTest)) + geom_histogram(binwidth=5) + facet_grid(. ~ visType)



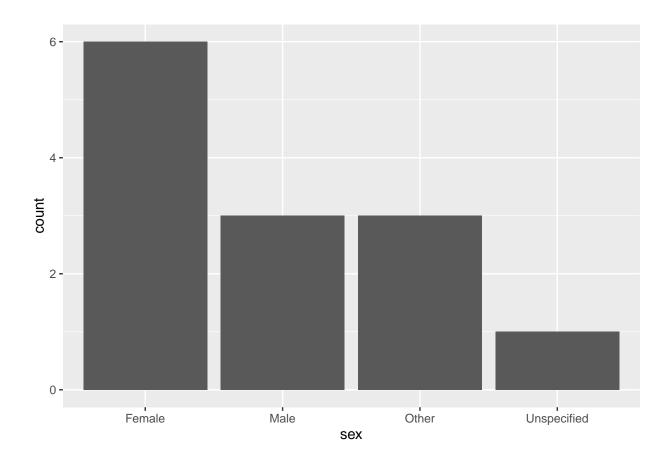
ggplot(correct2Data, aes(time_diff_attentionCheck)) + geom_histogram(binwidth=5) + facet_grid(. ~ vis



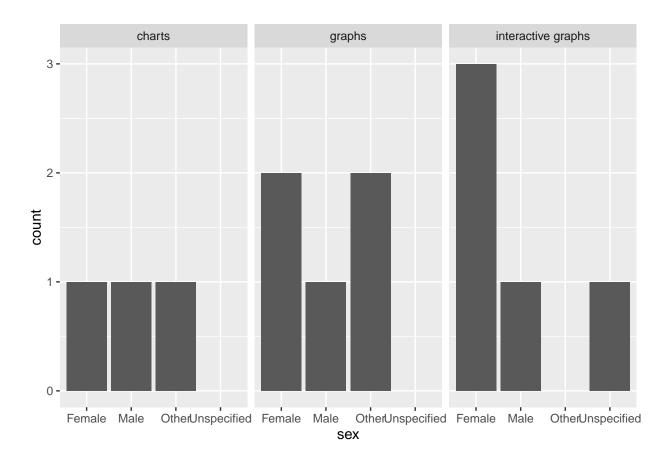
 $\#ggplot(correct2Data,\ aes(time_diff_postTest)) + geom_histogram(\ binwidth=5\) + facet_grid(.\ \sim\ visType) \\ ggplot(correct2Data,\ aes(time_diff_qualitative)) + geom_histogram(\ binwidth=5\) + facet_grid(.\ \sim\ visType) \\ geom_histogram(\ binwidth=5\) + facet_grid(.\ \sim\$



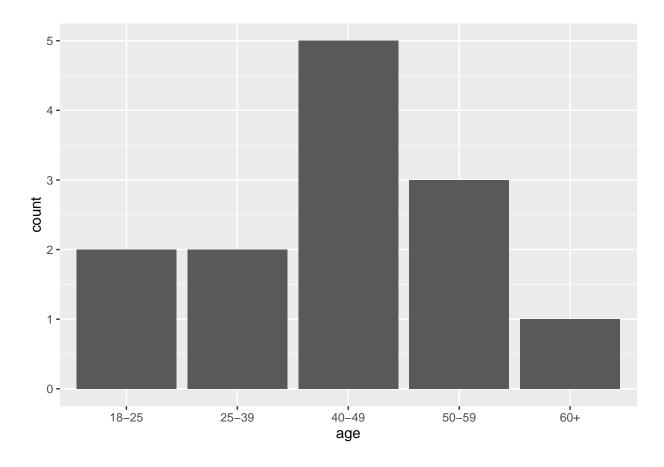
ggplot(correct2Data, aes(sex)) + geom_bar(stat = "count")



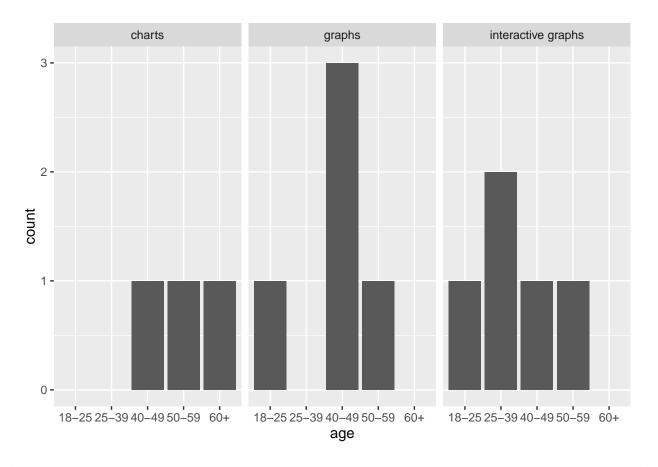
ggplot(correct2Data, aes(sex)) + geom_bar(stat = "count") + facet_grid(. ~ visType)



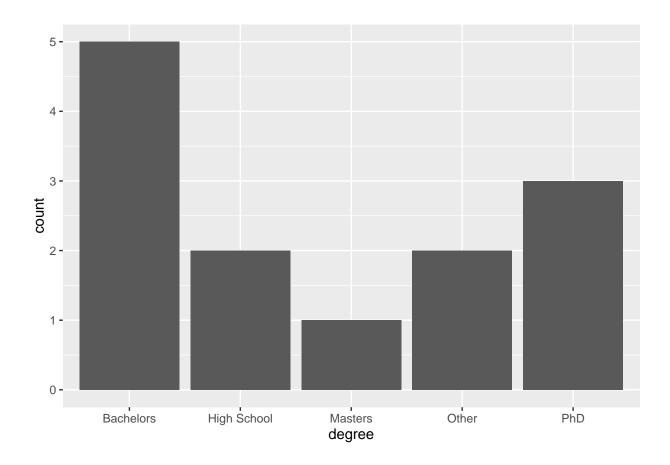
ggplot(correct2Data, aes(age)) + geom_bar(stat = "count")



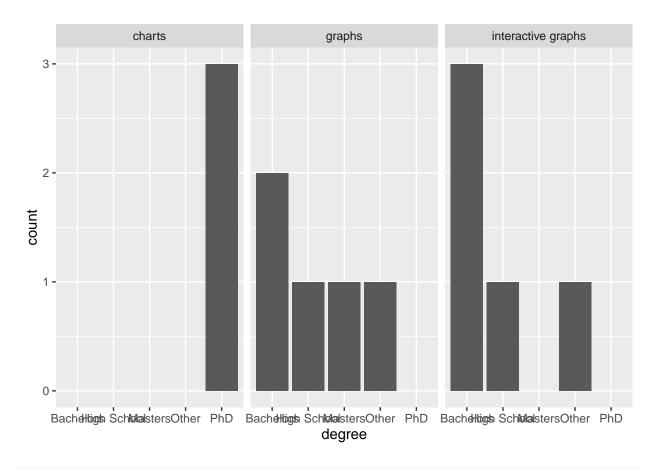
ggplot(correct2Data, aes(age)) + geom_bar(stat = "count") + facet_grid(. ~ visType)



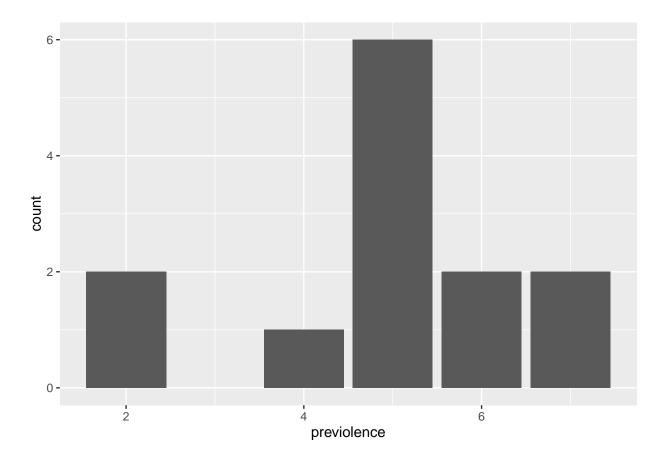
ggplot(correct2Data, aes(degree)) + geom_bar(stat = "count")



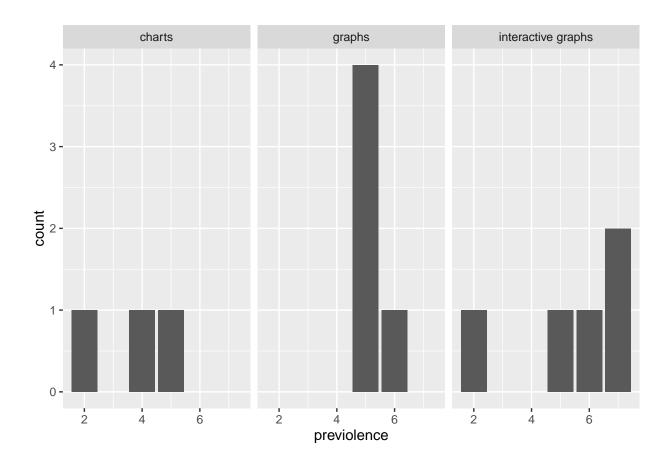
ggplot(correct2Data, aes(degree)) + geom_bar(stat = "count") + facet_grid(. ~ visType)



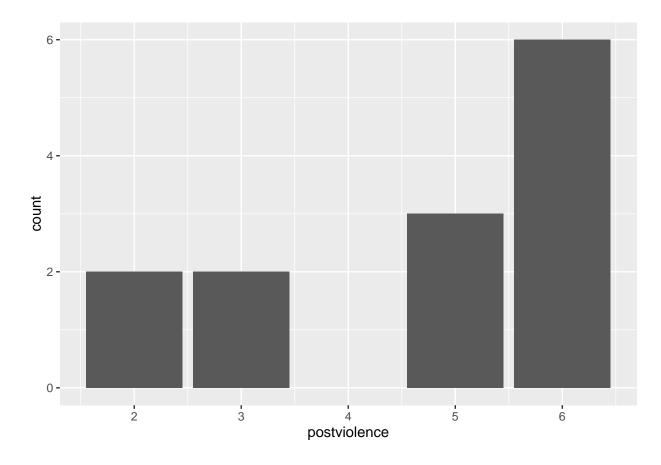
ggplot(correct2Data, aes(previolence)) + geom_bar(stat = "count")



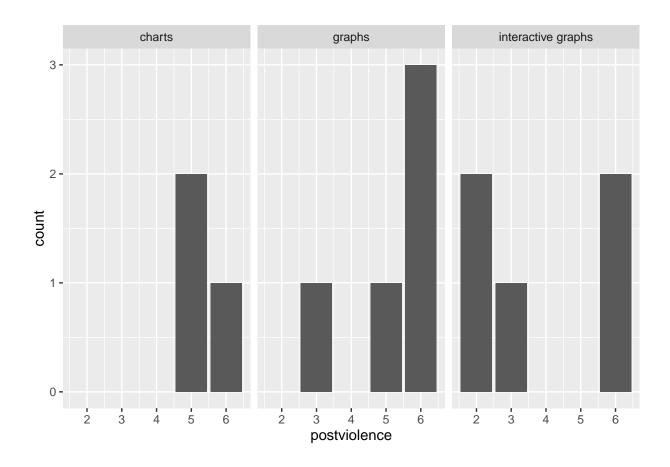
ggplot(correct2Data, aes(previolence)) + geom_bar(stat = "count") + facet_grid(. ~ visType)



ggplot(correct2Data, aes(postviolence)) + geom_bar(stat = "count")

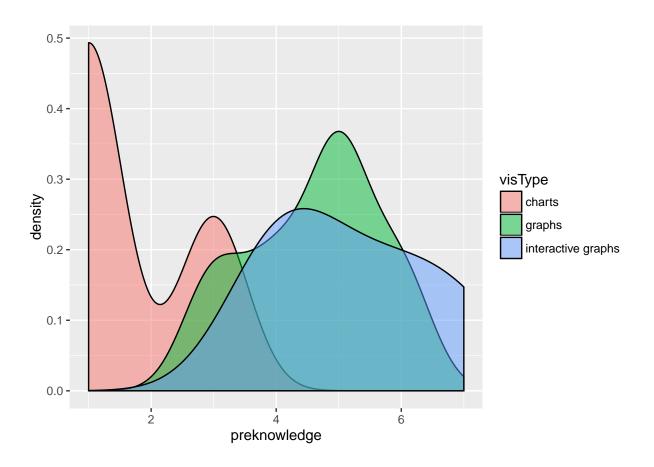


ggplot(correct2Data, aes(postviolence)) + geom_bar(stat = "count") + facet_grid(. ~ visType)

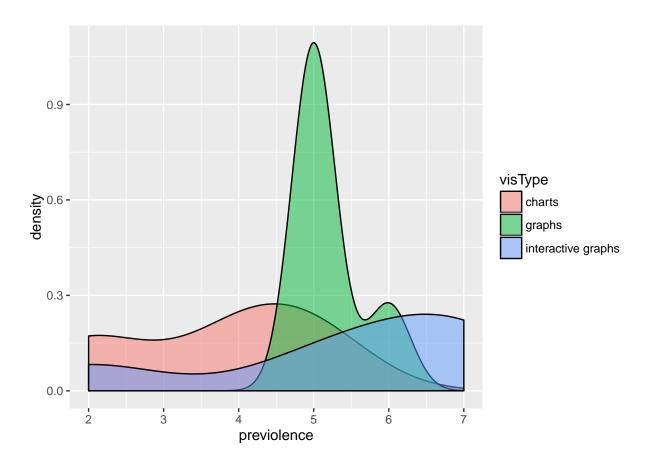


Densities of opinions

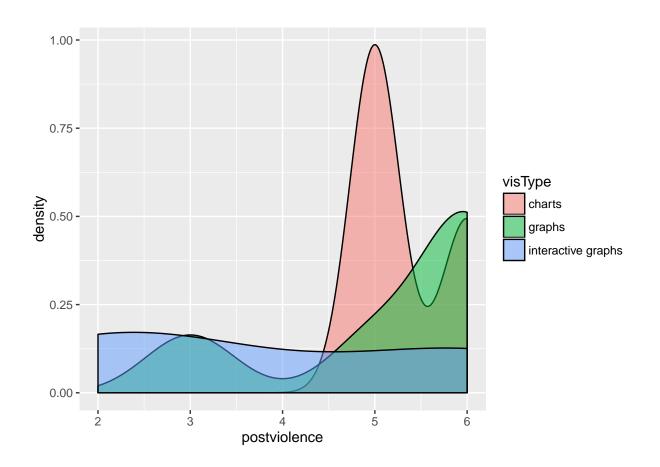
```
ggplot(correct2Data, aes(preknowledge, fill=visType)) + geom_density( alpha=0.5 )
```



```
ggplot(correct2Data, aes(previolence, fill=visType)) + geom_density( alpha=0.5 )
```

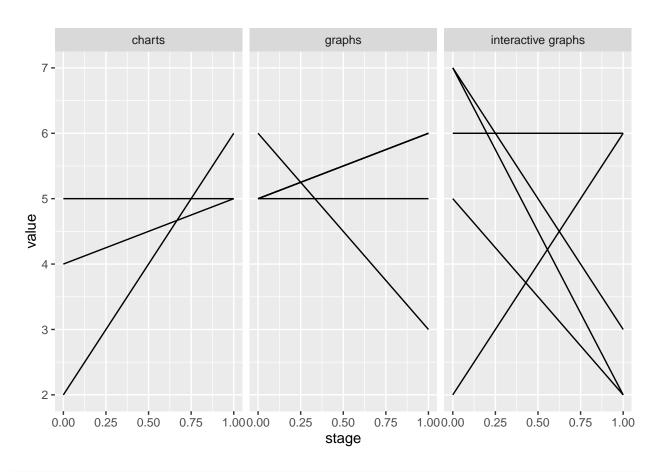


ggplot(correct2Data, aes(postviolence, fill=visType)) + geom_density(alpha=0.5)



```
correct2Data$new <- correct2Data$postviolence - correct2Data$previolence

#graph showing change from pretest (0) to posttest(1)
ggplot(correct2Data, aes(stage, value)) + geom_segment(aes(x = 0, y = previolence, xend = 1, yend = postument)</pre>
```



ggplot(correct2Data, aes(stage, value)) + geom_segment(aes(x = 0, y = previolence, xend = 1, yend = pos

