## Untitled

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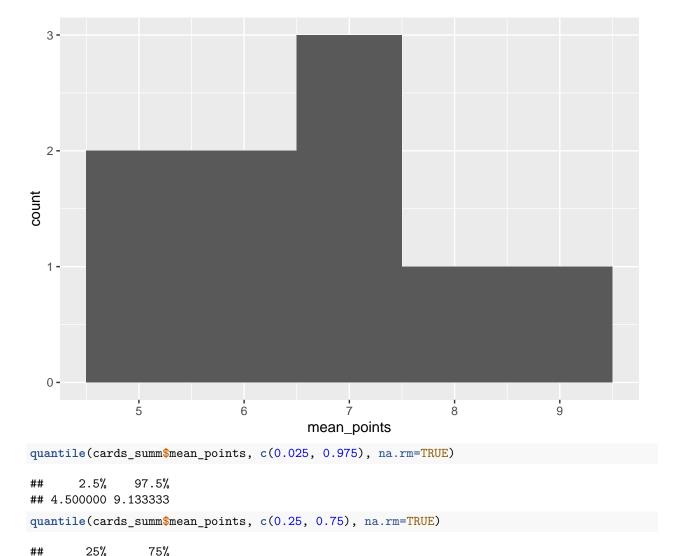
2024-10-17

## Getting CI across 9 experiments

geom\_histogram(binwidth = 1)

```
cards = read.csv('cards.csv') %>%
 gather(key="group", value = "points", starts_with("g"))
ggplot(cards, aes(x=group, y=points)) +
  geom_point()
  10 -
points
   5 -
   0 -
                   G2
          G1
                            G3
                                     G4
                                              G5
                                                       G6
                                                                 Ġ7
                                                                          G8
                                                                                   G9
                                             group
ggplot(cards, aes(x=points)) +
```

```
5 -
  4 -
  3 -
count
  2 -
  1 -
  0 -
                                                                    10
                                       5
           0
                                              points
cards_summ = cards%>%
  group_by(group) %>%
  summarise(mean_points = mean(points, na.rm=TRUE))
ggplot(cards_summ, aes(x=mean_points)) +
  geom_histogram(binwidth = 1)
```



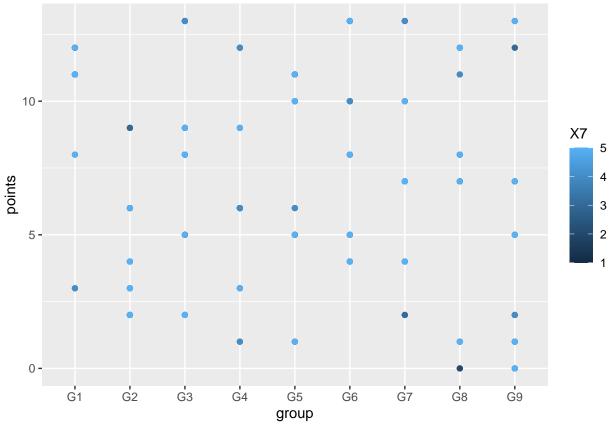
```
## 25% 75%
## 6.166667 7.333333
## How could you get 90%, 80% and 50% CI?
```

## Repeating experiments with bootstrapping

```
cards_all = read.csv('cards_allexp.csv') %>%
  gather(key="group", value = "points", starts_with("g"))

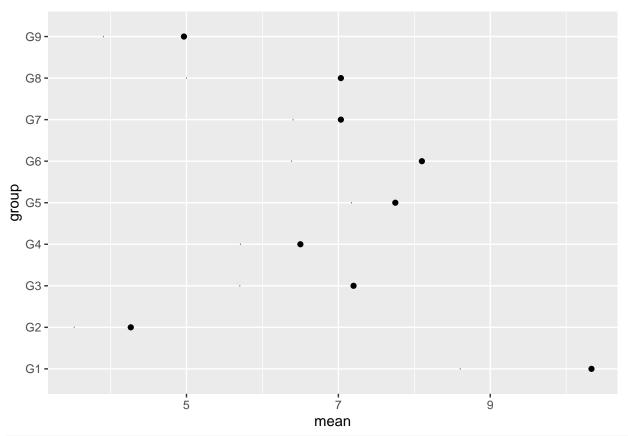
ggplot(cards_all, aes(x=group, y=points, color=X7)) +
  geom_point()
```

## Warning: Removed 5 rows containing missing values (`geom\_point()`).



## `summarise()` has grouped output by 'group'. You can override using the
## `.groups` argument.

```
ggplot(cards_all_summ, aes(x=mean, y=group)) +
  geom_point() +
  geom_linerange(aes(xmin=lower, xmax=upper))
```



quantile(cards\_all\_summ\$mean, c(0.025, 0.975), na.rm=TRUE)

## 2.5% 97.5% ## 4.406667 9.886667