

```
library(tidyverse)
```

```
library(tidyverse)
```

```
Titanic
```

```
, , Age = Child, Survived = No
```

	Sex	
Class	Male	Female
1st	0	0
2nd	0	0
3rd	35	17
Crew	0	0

```
, , Age = Adult, Survived = No
```

	Sex	
Class	Male	Female
1st	118	4
2nd	154	13
3rd	387	89
Crew	670	3

```
, , Age = Child, Survived = Yes
```

	Sex	
Class	Male	Female
1st	5	1
2nd	11	13
3rd	13	14
Crew	0	0

```
, , Age = Adult, Survived = Yes
```

	Sex	
Class	Male	Female
1st	57	140

```
library(tidyverse)
Titanic %>%
  as.data.frame()
```

	Class	Sex	Age	Survived	Freq
1	1st	Male	Child	No	0
2	2nd	Male	Child	No	0
3	3rd	Male	Child	No	35
4	Crew	Male	Child	No	0
5	1st	Female	Child	No	0
6	2nd	Female	Child	No	0
7	3rd	Female	Child	No	17
8	Crew	Female	Child	No	0
9	1st	Male	Adult	No	118
10	2nd	Male	Adult	No	154
11	3rd	Male	Adult	No	387
12	Crew	Male	Adult	No	670
13	1st	Female	Adult	No	4
14	2nd	Female	Adult	No	13
15	3rd	Female	Adult	No	89
16	Crew	Female	Adult	No	3
17	1st	Male	Child	Yes	5
18	2nd	Male	Child	Yes	11
19	3rd	Male	Child	Yes	13
20	Crew	Male	Child	Yes	0
21	1st	Female	Child	Yes	1
22	2nd	Female	Child	Yes	13
23	3rd	Female	Child	Yes	14
24	Crew	Female	Child	Yes	0
25	1st	Male	Adult	Yes	57
26	2nd	Male	Adult	Yes	14
27	3rd	Male	Adult	Yes	75
28	Crew	Male	Adult	Yes	192
29	1st	Female	Adult	Yes	140

```
library(tidyverse)
```

```
Titanic %>%
```

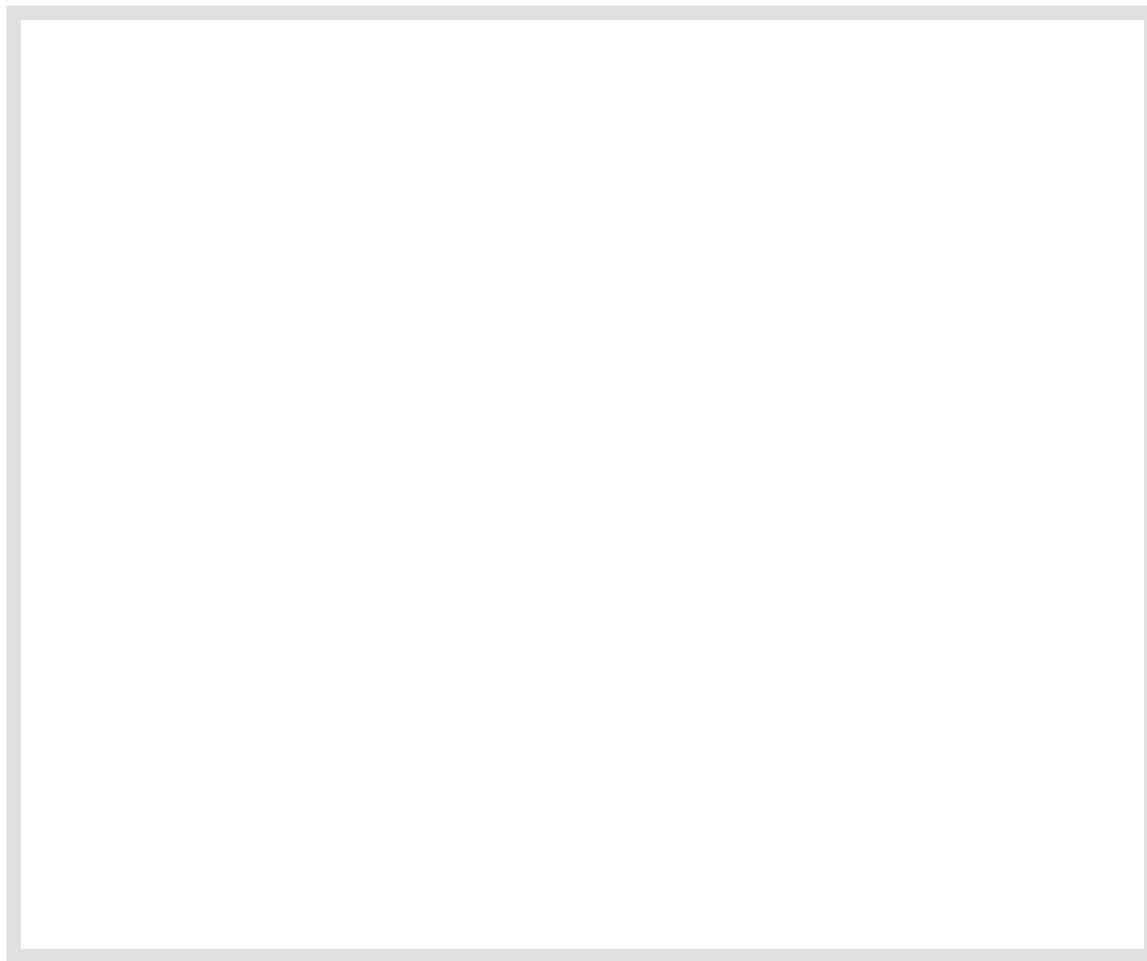
```
  as.data.frame() %>%
```

```
  uncount(weights = Freq)
```

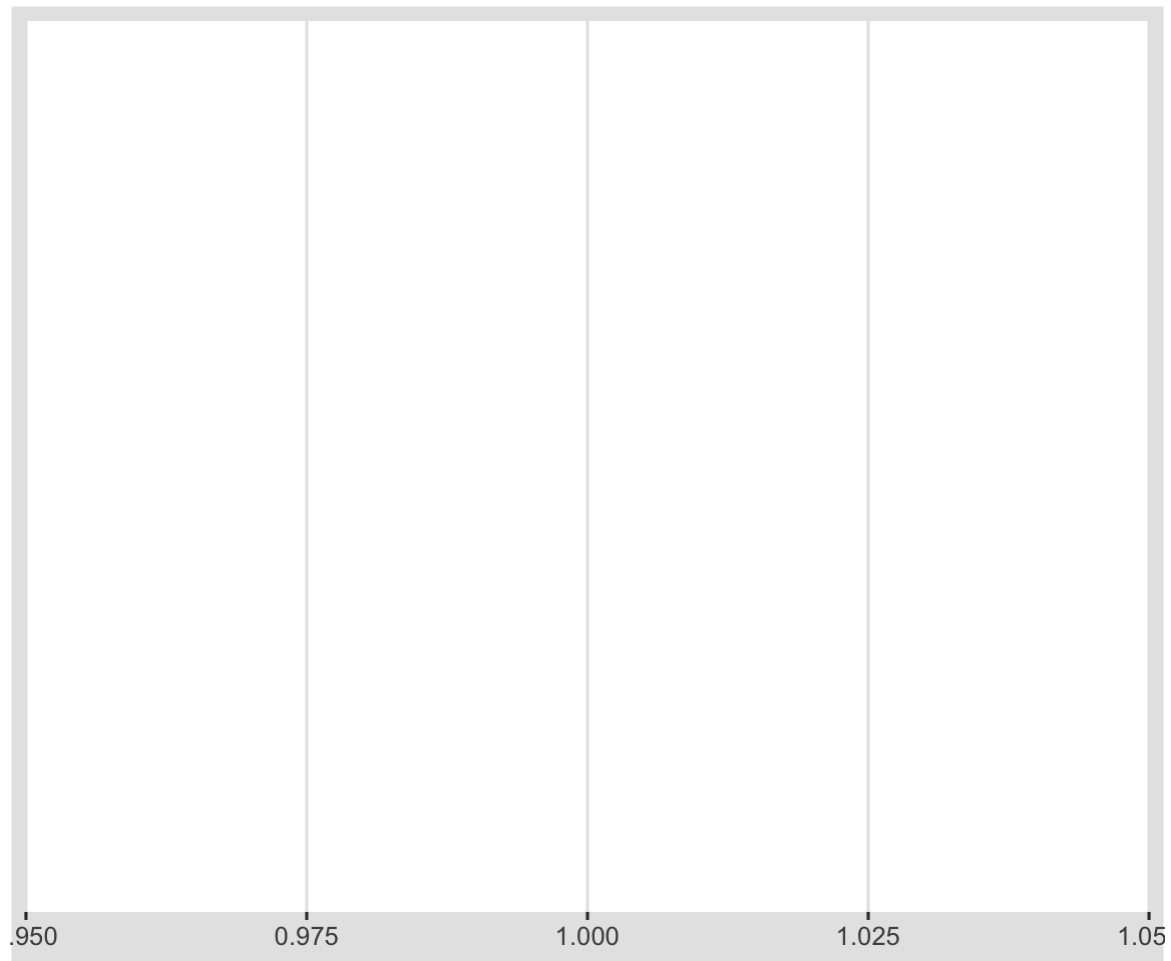
	Class	Sex	Age	Survived
3	3rd	Male	Child	No
3.1	3rd	Male	Child	No
3.2	3rd	Male	Child	No
3.3	3rd	Male	Child	No
3.4	3rd	Male	Child	No
3.5	3rd	Male	Child	No
3.6	3rd	Male	Child	No
3.7	3rd	Male	Child	No
3.8	3rd	Male	Child	No
3.9	3rd	Male	Child	No
3.10	3rd	Male	Child	No
3.11	3rd	Male	Child	No
3.12	3rd	Male	Child	No
3.13	3rd	Male	Child	No
3.14	3rd	Male	Child	No
3.15	3rd	Male	Child	No
3.16	3rd	Male	Child	No
3.17	3rd	Male	Child	No
3.18	3rd	Male	Child	No
3.19	3rd	Male	Child	No
3.20	3rd	Male	Child	No
3.21	3rd	Male	Child	No
3.22	3rd	Male	Child	No
3.23	3rd	Male	Child	No
3.24	3rd	Male	Child	No
3.25	3rd	Male	Child	No
3.26	3rd	Male	Child	No
3.27	3rd	Male	Child	No
3.28	3rd	Male	Child	No

```
library(tidyverse)
Titanic %>%
  as.data.frame() %>%
  uncount(weights = Freq) %>%
  ggplot()
```

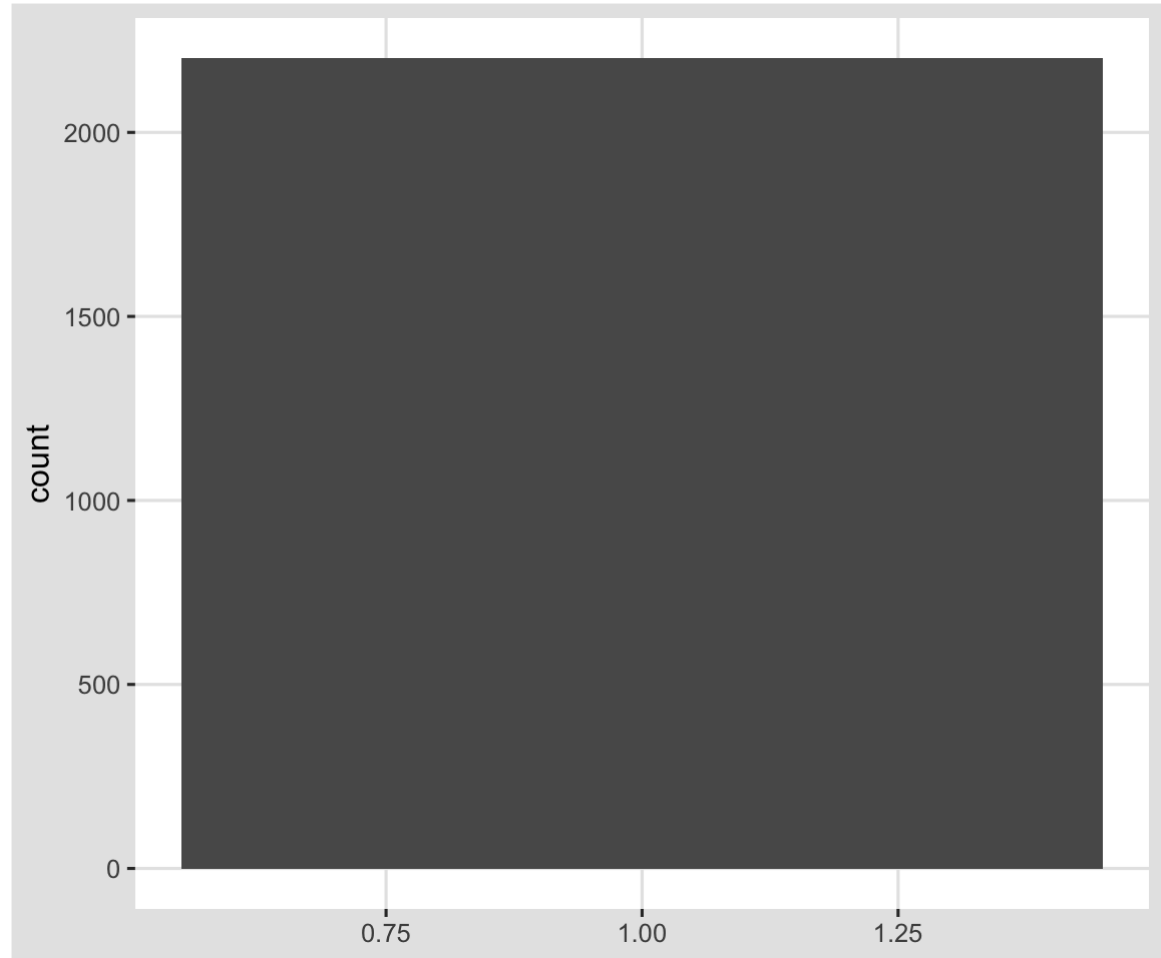
```
library(tidyverse)
Titanic %>%
  as.data.frame() %>%
  uncount(weights = Freq) %>%
  ggplot() +
  ggthemes::theme_igray()
```



```
library(tidyverse)
Titanic %>%
  as.data.frame() %>%
  uncount(weights = Freq) %>%
  ggplot() +
  ggthemes::theme_igray() +
  aes(x = 1) + labs(x = NULL)
```

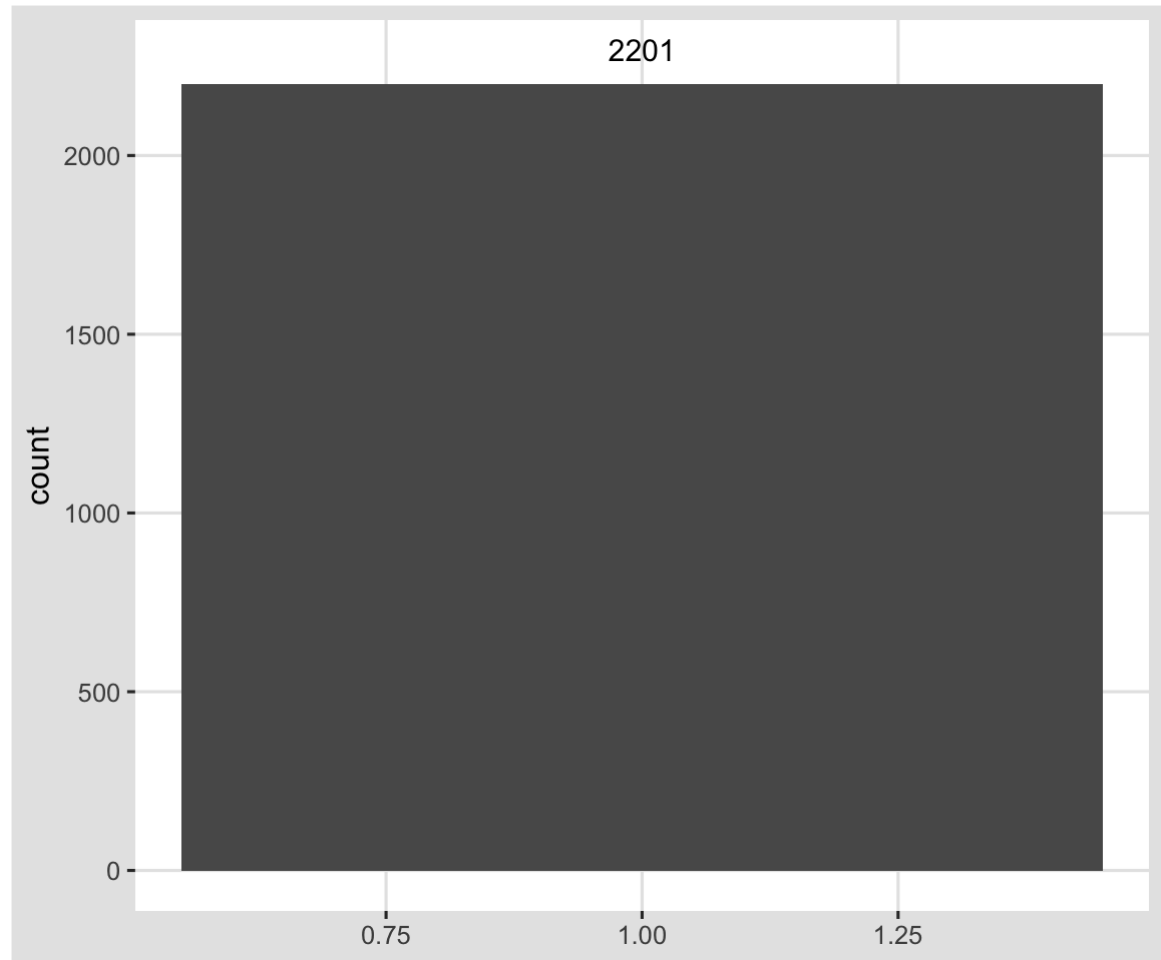


```
library(tidyverse)
Titanic %>%
  as.data.frame() %>%
  uncount(weights = Freq) %>%
  ggplot() +
  ggthemes::theme_igray() +
  aes(x = 1) + labs(x = NULL) +
  geom_bar(position =
    position_dodge2(preserve = "singl
```

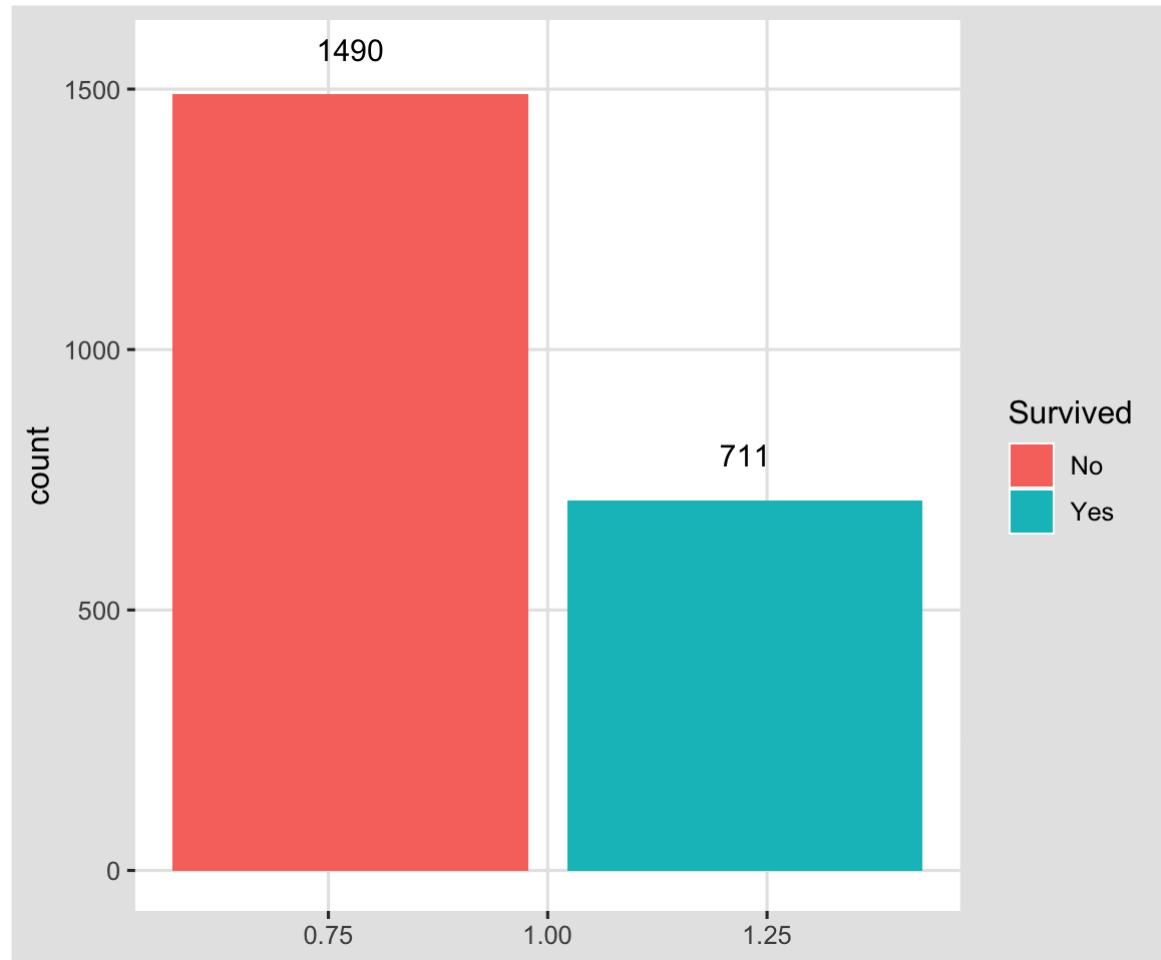




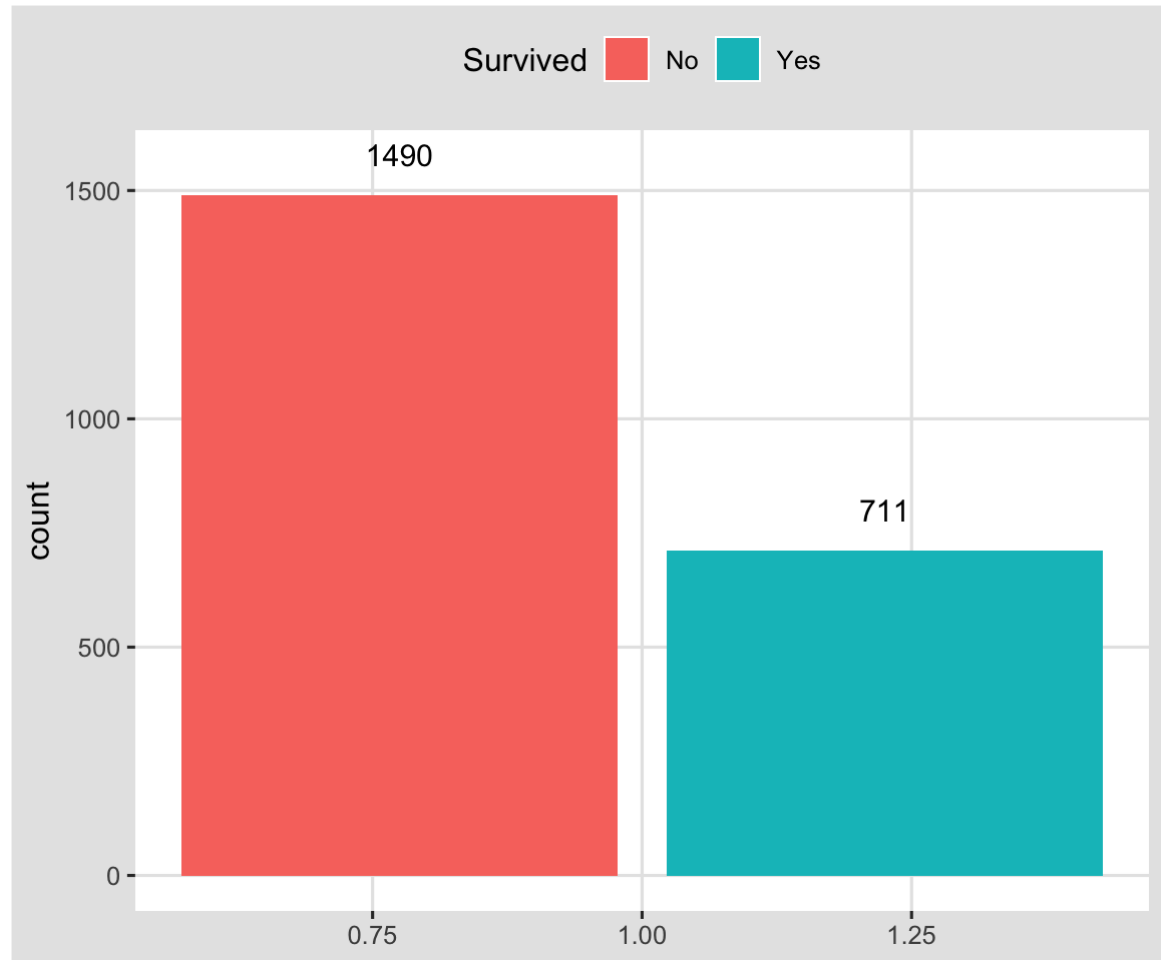
```
library(tidyverse)
Titanic %>%
  as.data.frame() %>%
  uncount(weights = Freq) %>%
  ggplot() +
  ggthemes::theme_igray() +
  aes(x = 1) + labs(x = NULL) +
  geom_bar(position =
    position_dodge2(preserve = "singl
stat_count(geom = "text",
  aes(label = after_stat(count),
    y = after_stat(count) + 65),
  vjust = 0,
  size = 4,
  position =
    position_dodge2(width = .9,
      preserve = "sin
```



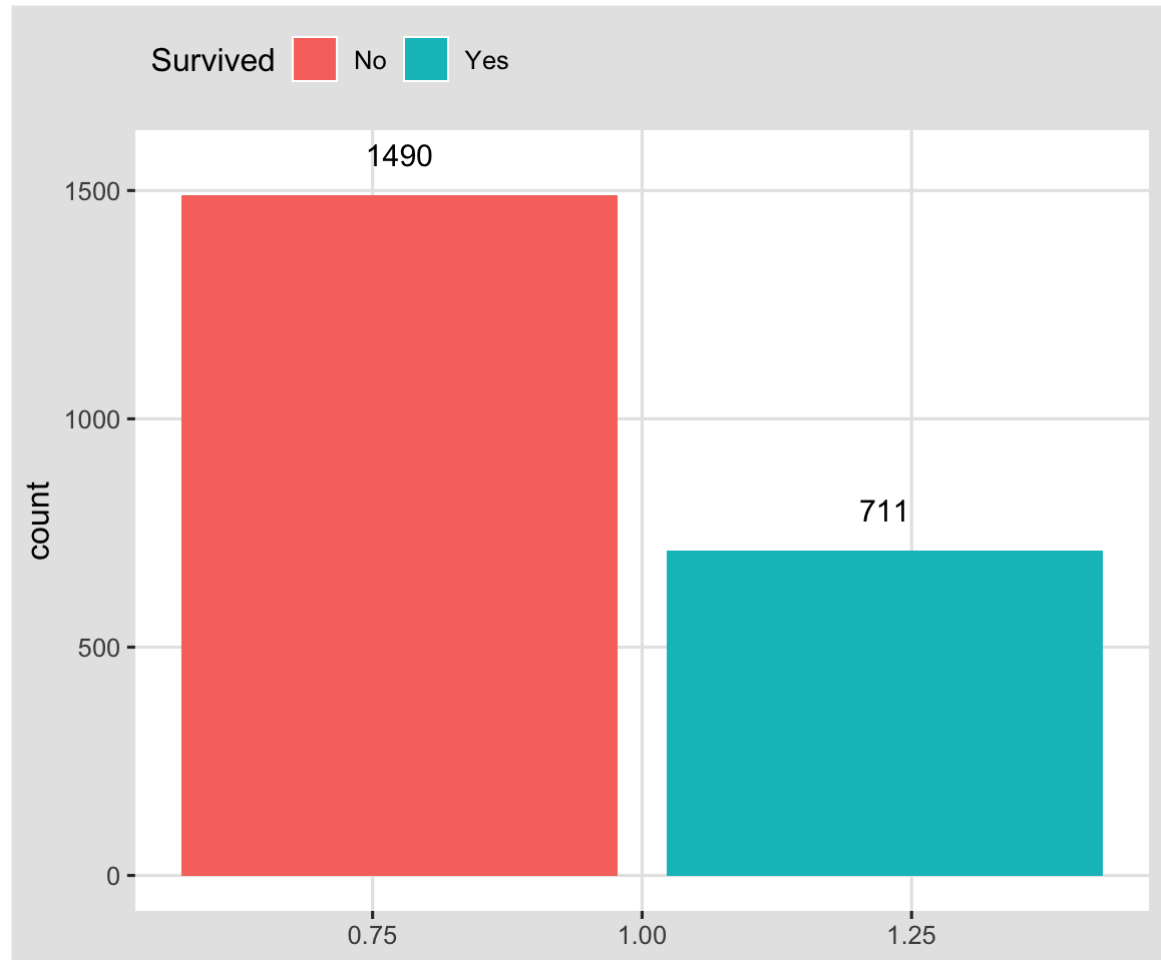
```
library(tidyverse)
Titanic %>%
  as.data.frame() %>%
  uncount(weights = Freq) %>%
  ggplot() +
  ggthemes::theme_igray() +
  aes(x = 1) + labs(x = NULL) +
  geom_bar(position =
    position_dodge2(preserve = "singl
stat_count(geom = "text",
  aes(label = after_stat(count),
    y = after_stat(count) + 65),
  vjust = 0,
  size = 4,
  position =
    position_dodge2(width = .9,
                      preserve = "sin
aes(fill = Survived)
```



```
library(tidyverse)
Titanic %>%
  as.data.frame() %>%
  uncount(weights = Freq) %>%
  ggplot() +
  ggthemes::theme_igray() +
  aes(x = 1) + labs(x = NULL) +
  geom_bar(position =
    position_dodge2(preserve = "singl
stat_count(geom = "text",
  aes(label = after_stat(count),
    y = after_stat(count) + 65),
  vjust = 0,
  size = 4,
  position =
    position_dodge2(width = .9,
      preserve = "sin
  aes(fill = Survived) +
  theme(legend.position = "top")
```

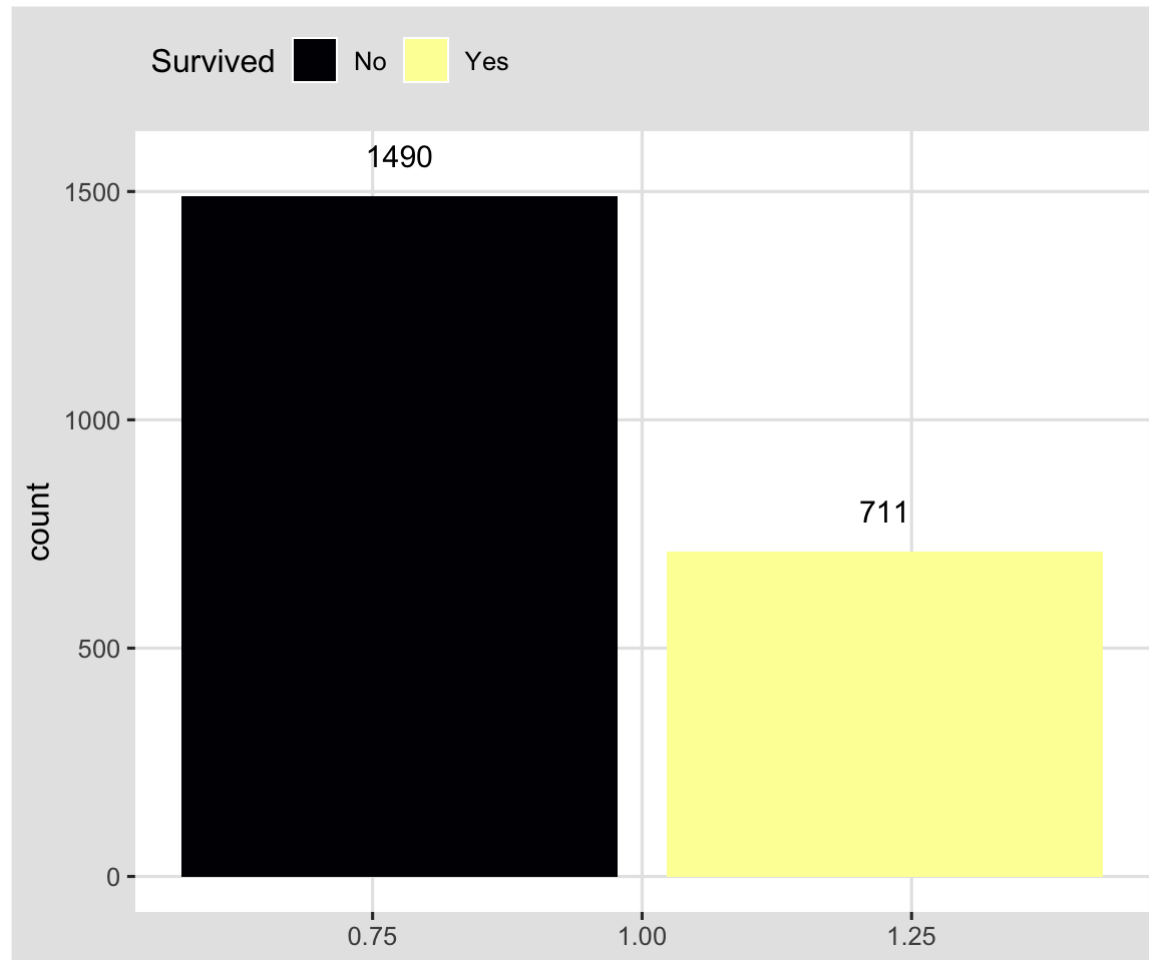


```
library(tidyverse)
Titanic %>%
  as.data.frame() %>%
  uncount(weights = Freq) %>%
  ggplot() +
  ggthemes::theme_igray() +
  aes(x = 1) + labs(x = NULL) +
  geom_bar(position =
    position_dodge2(preserve = "single",
  stat_count(geom = "text",
    aes(label = after_stat(count),
      y = after_stat(count) + 65),
    vjust = 0,
    size = 4,
    position =
      position_dodge2(width = .9,
        preserve = "single",
  aes(fill = Survived) +
  theme(legend.position = "top") +
  theme(legend.justification = 0)
```



```
library(tidyverse)
Titanic %>%
  as.data.frame() %>%
  uncount(weights = Freq) %>%
  ggplot() +
  ggthemes::theme_igray() +
  aes(x = 1) + labs(x = NULL) +
  geom_bar(position =
    position_dodge2(preserve = "singl
stat_count(geom = "text",
  aes(label = after_stat(count),
    y = after_stat(count) + 65),
  vjust = 0,
  size = 4,
  position =
    position_dodge2(width = .9,
      preserve = "sin

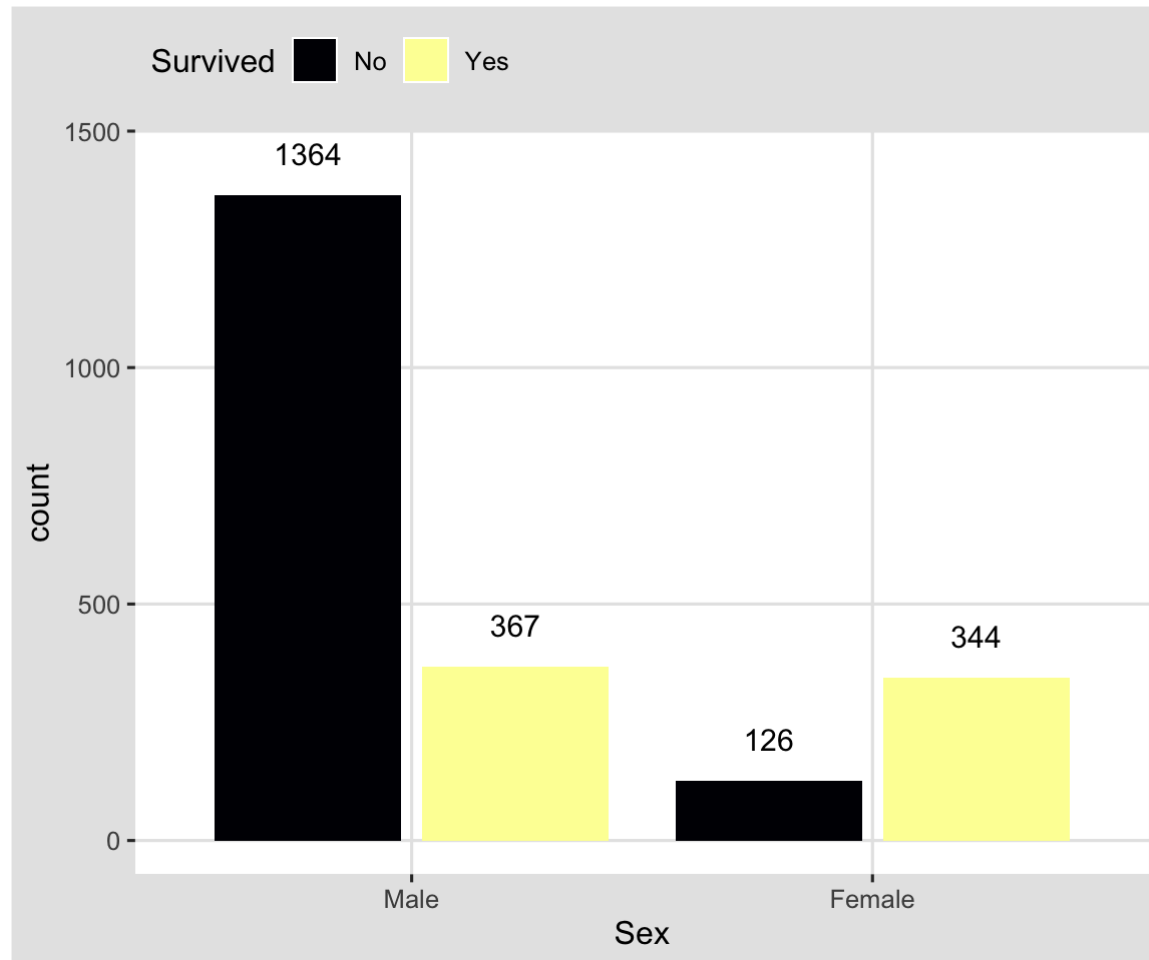
aes(fill = Survived) +
theme(legend.position = "top") +
theme(legend.justification = 0) +
scale_fill_viridis_d(option = "inferno")
```



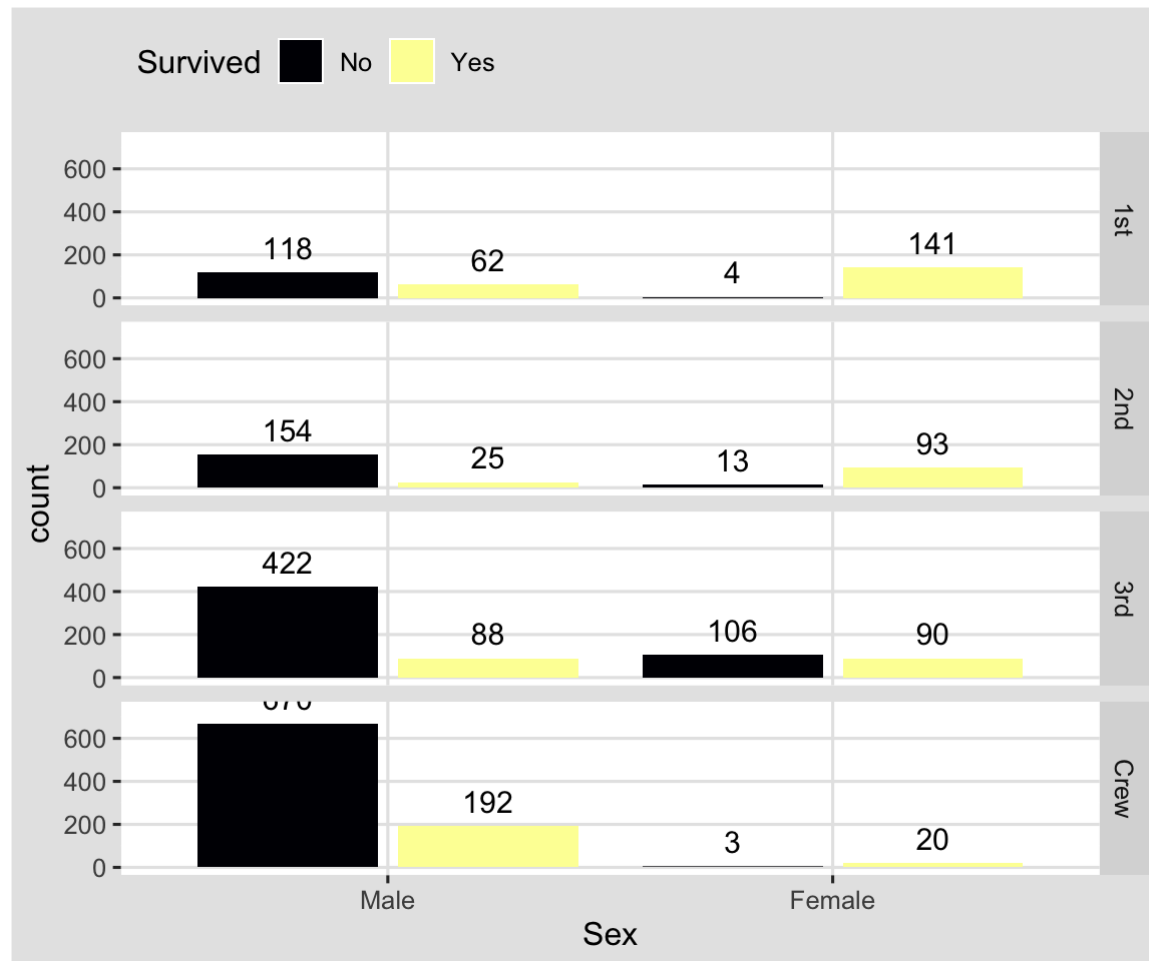
```

library(tidyverse)
Titanic %>%
  as.data.frame() %>%
  uncount(weights = Freq) %>%
  ggplot() +
  ggthemes::theme_igray() +
  aes(x = 1) + labs(x = NULL) +
  geom_bar(position =
    position_dodge2(preserve = "single",
  stat_count(geom = "text",
    aes(label = after_stat(count),
      y = after_stat(count) + 65),
    vjust = 0,
    size = 4,
    position =
      position_dodge2(width = .9,
        preserve = "single",
    aes(fill = Survived) +
    theme(legend.position = "top") +
    theme(legend.justification = 0) +
    scale_fill_viridis_d(option = "inferno") +
    aes(x = Sex)

```

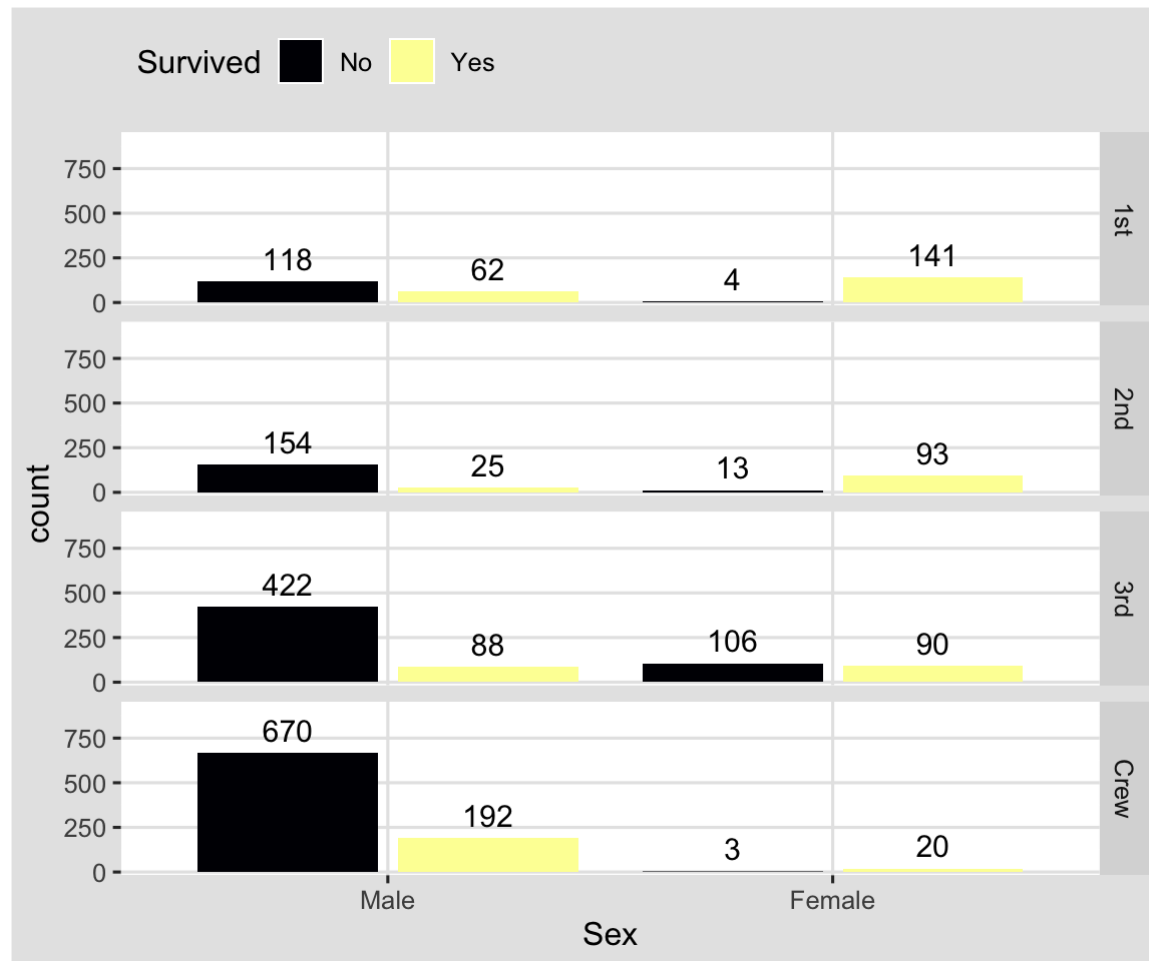


```
library(tidyverse)
Titanic %>%
  as.data.frame() %>%
  uncount(weights = Freq) %>%
  ggplot() +
  ggthemes::theme_igray() +
  aes(x = 1) + labs(x = NULL) +
  geom_bar(position =
    position_dodge2(preserve = "single",
  stat_count(geom = "text",
    aes(label = after_stat(count),
      y = after_stat(count) + 65),
    vjust = 0,
    size = 4,
    position =
      position_dodge2(width = .9,
        preserve = "single",
    aes(fill = Survived) +
    theme(legend.position = "top") +
    theme(legend.justification = 0) +
    scale_fill_viridis_d(option = "inferno") +
    aes(x = Sex) +
    facet_grid(Class~.)
```



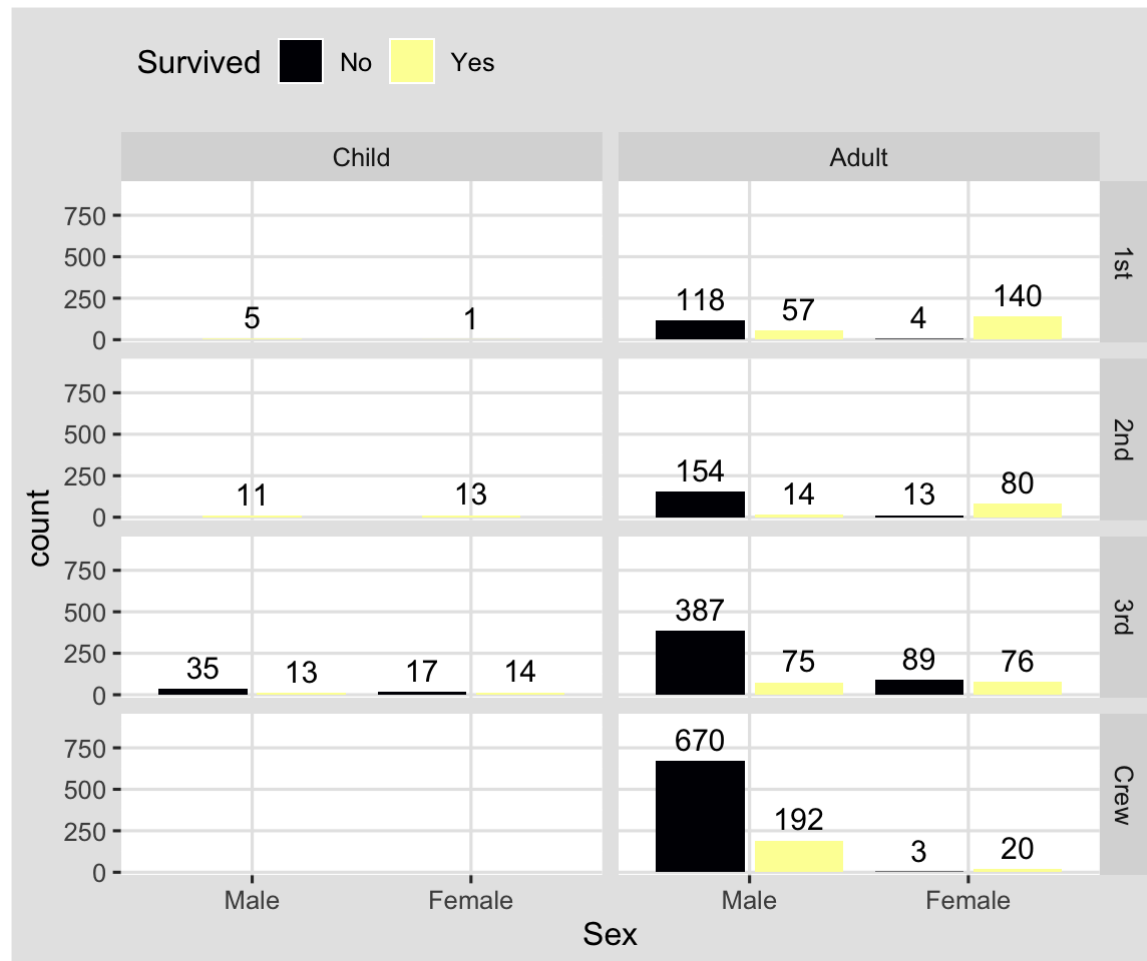
```
library(tidyverse)
Titanic %>%
  as.data.frame() %>%
  uncount(weights = Freq) %>%
  ggplot() +
  ggthemes::theme_igray() +
  aes(x = 1) + labs(x = NULL) +
  geom_bar(position =
    position_dodge2(preserve = "singl
stat_count(geom = "text",
  aes(label = after_stat(count),
    y = after_stat(count) + 65),
  vjust = 0,
  size = 4,
  position =
    position_dodge2(width = .9,
      preserve = "sin

aes(fill = Survived) +
theme(legend.position = "top") +
theme(legend.justification = 0) +
scale_fill_viridis_d(option = "inferno") +
aes(x = Sex) +
facet_grid(Class~.) +
scale_y_continuous(expand = expansion(mult =
```





```
library(tidyverse)
Titanic %>%
  as.data.frame() %>%
  uncount(weights = Freq) %>%
  ggplot() +
  ggthemes::theme_igray() +
  aes(x = 1) + labs(x = NULL) +
  geom_bar(position =
    position_dodge2(preserve = "singl
stat_count(geom = "text",
  aes(label = after_stat(count),
    y = after_stat(count) + 65),
  vjust = 0,
  size = 4,
  position =
    position_dodge2(width = .9,
      preserve = "sin
aes(fill = Survived) +
theme(legend.position = "top") +
theme(legend.justification = 0) +
scale_fill_viridis_d(option = "inferno") +
aes(x = Sex) +
facet_grid(Class~.) +
scale_y_continuous(expand = expansion(mult =
facet_grid(Class~Age)
```



```

library(tidyverse)
Titanic %>%
  as.data.frame() %>%
  uncount(weights = Freq) %>%
  ggplot() +
  ggthemes::theme_igray() +
  aes(x = 1) + labs(x = NULL) +
  geom_bar(position =
    position_dodge2(preserve = "single",
    stat_count(geom = "text",
      aes(label = after_stat(count),
        y = after_stat(count) + 65),
        vjust = 0,
        size = 4,
        position =
          position_dodge2(width = .9,
            preserve = "single",
            aes(fill = Survived) +
            theme(legend.position = "top") +
            theme(legend.justification = 0) +
            scale_fill_viridis_d(option = "inferno") +
            aes(x = Sex) +
            facet_grid(Class~.) +
            scale_y_continuous(expand = expansion(mult =
            facet_grid(Class~Age)

```

