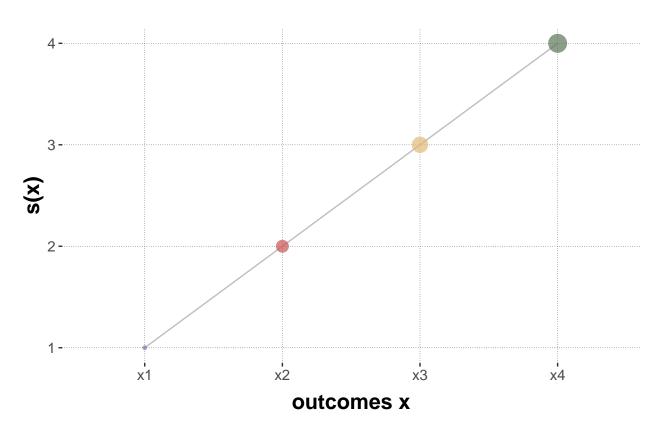
## cspplot\_examples

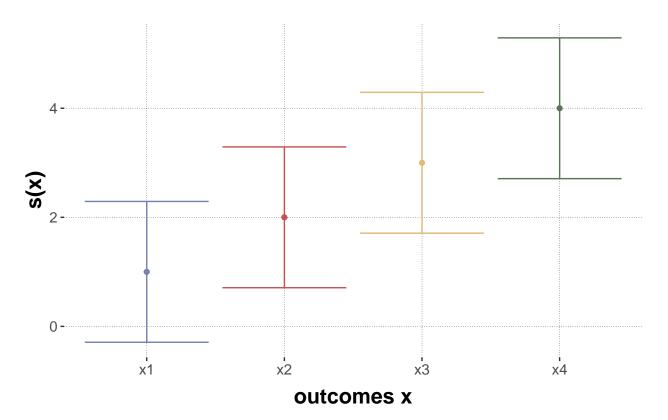
## Juliane Schwab

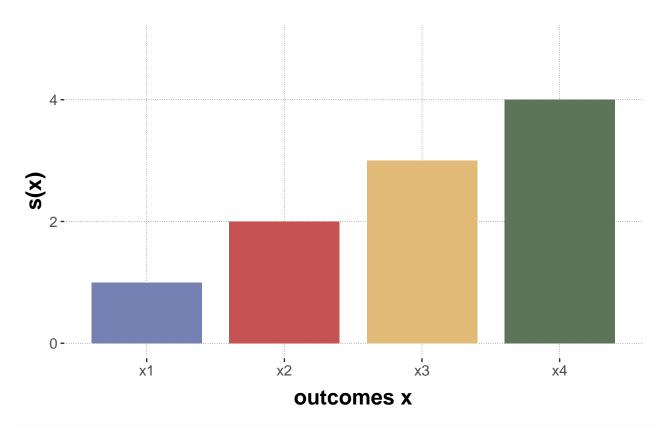
## 2023-02-16

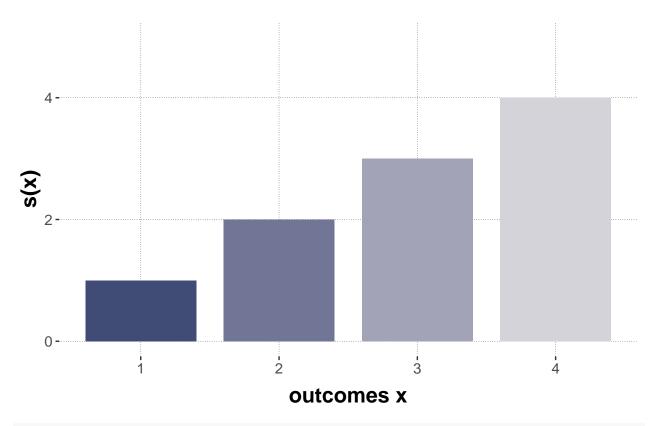
```
-----load required packages-----
library(ggplot2)
## Warning: package 'ggplot2' was built under R version 4.2.2
library(cspplot)
##
## Attaching package: 'cspplot'
## The following objects are masked from 'package:ggplot2':
##
##
      scale_color_continuous, scale_color_discrete, scale_color_gradient,
##
      scale color gradient2, scale color gradientn,
##
      scale_colour_continuous, scale_colour_discrete,
##
      scale_colour_gradient, scale_colour_gradient2,
##
      scale_colour_gradientn, scale_fill_continuous, scale_fill_discrete,
      scale_fill_gradient, scale_fill_gradient2, scale_fill_gradientn
library(geometry)
## Warning: package 'geometry' was built under R version 4.2.2
library(ordinal)
## Warning: package 'ordinal' was built under R version 4.2.2
c = c("x1", "x2", "x3", "x4")
s = c(1:4)
cycle=c(1)
test_discrete<-data.frame(c,s,cycle)</pre>
pd = position_dodge2(width = 0.4, padding = 0.1) #dodge other points
############ Example plots for discrete scales ############
#-----point-line plot------
plot_point_line<-ggplot(test_discrete, aes(y = s,x = c, color = c))+</pre>
 theme_csp()+
 geom_line(aes(group=cycle), color="grey75", linetype = 1, position=pd)+
 geom_point(aes(size=s), alpha = 0.7, position=pd)+
 labs(x = "outcomes x", y = "s(x)", title = "")+
 theme(legend.position = "none")
```

## plot\_point\_line



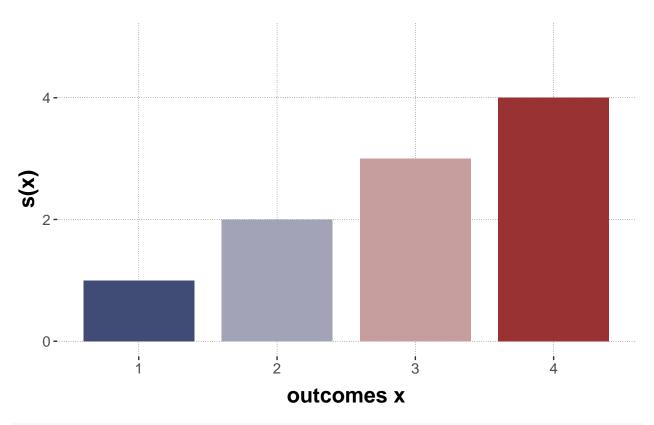


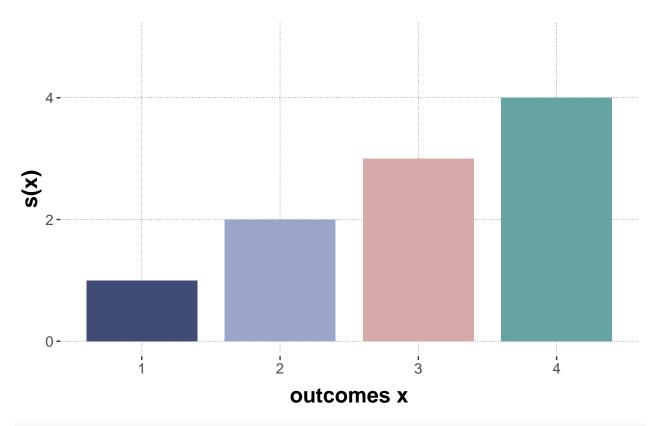




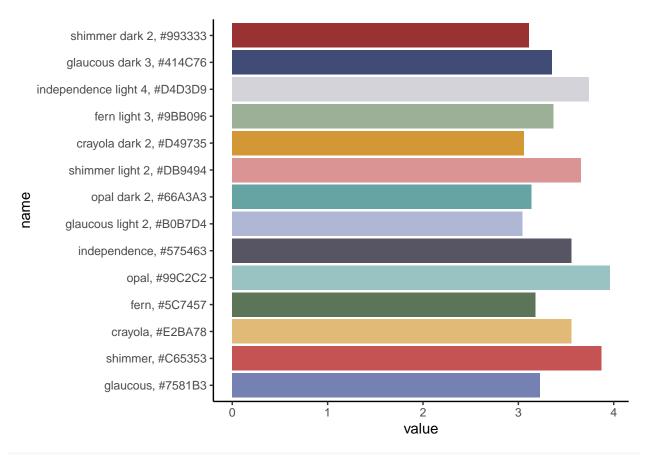
```
#-----diverging gradient-----

plot_bars3<-ggplot(test_continuous, aes(y = j,x = i, fill = i))+
    theme_csp()+
    geom_bar(stat = "identity", width=0.8)+
    labs(x = "outcomes x", y = "s(x)", title = "")+
    scale_fill_gradient2()+
    scale_y_continuous(limits=c(0,5),breaks=c(0,2,4))+
    theme(legend.position = "none")</pre>
```





#function returning a plot to show the colors with their names
display\_colors()



#function returning a tibble of the color names and number list\_colors()

```
## # A tibble: 14 x 2
##
     name
                           hex
##
      <fct>
                           <chr>
                           #7581B3
##
  1 glaucous
##
   2 shimmer
                           #C65353
##
   3 crayola
                           #E2BA78
##
  4 fern
                           #5C7457
##
  5 opal
                           #99C2C2
   6 independence
##
                           #575463
##
  7 glaucous light 2
                           #B0B7D4
  8 opal dark 2
                           #66A3A3
## 9 shimmer light 2
                           #DB9494
## 10 crayola dark 2
                           #D49735
## 11 fern light 3
                           #9BB096
## 12 independence light 4 #D4D3D9
## 13 glaucous dark 3
                           #414C76
## 14 shimmer dark 2
                           #993333
palette<-list_colors()[,"hex", drop = TRUE]</pre>
#-----bar plot-----
plot_bars5<-ggplot(test_discrete, aes(y = s, x = c, fill = c))+
 theme_csp()+
  geom_bar(stat ="identity", width=0.8)+
```

```
labs(x = "outcomes x", y = "s(x)", title = "")+
scale_y_continuous(limits=c(0,5),breaks=c(0,2,4))+
scale_fill_manual(values = c(palette[11:14]))+
theme(legend.position = "none")

plot_bars5
```

