

FEATURE FUNCTIONS

```
color_contains <- function(pal, color, space) {  
  spectrum1 <- convert_colour(t(col2rgb(pal))), "rgb", space)  
  spectrum2 <- convert_colour(t(col2rgb(color))), "rgb", space)  
  
  compare_colour(spectrum1, spectrum2, space, method = "cie2000") %>%  
    min()  
}
```

convert_colour() and compare_colour() from **farver** package

FEATURE FUNCTIONS

```
linear <- function(pal, space) {  
  colors <- convert_colour(t(col2rgb(pal)), "rgb", space) %>%  
    as.data.frame() %>%  
    mutate(x = row_number())  
  
  out <- lm(x ~ ., colors) %>%  
    summary() %>%  
    .$adj.r.squared  
  
  if(is.nan(out))  
    return(0)  
  
  out  
}
```

convert_colour() and compare_colour() from **farver** package