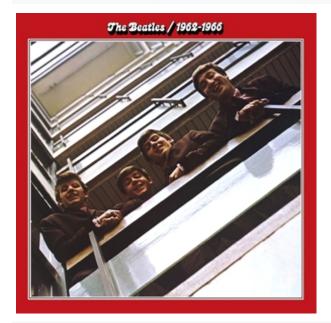
# APSTA-2017 (Final Presentation)

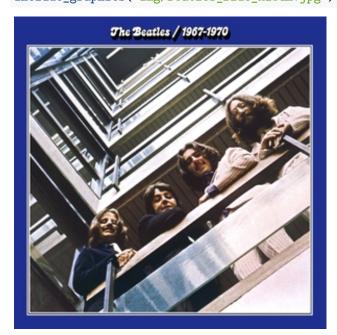
 $William\ Spagnola$  5/4/2019

## Early Beatles vs. Later Beatles

include\_graphics('img/Beatles\_Red\_Album.jpg')



include\_graphics('img/Beatles\_Blue\_Album.jpg')

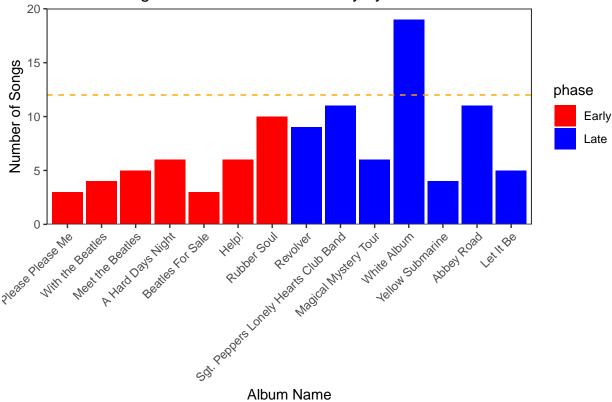


Literature Review

#### Songs Available on Hooktheory

```
beatles %>%
count(album_name, year, song, phase) %>%
count(album_name, year, phase) %>%
drop_na(album_name) %>%
ggplot(aes(x = album_name, y = nn, fill = phase)) +
geom_col() +
scale_fill_manual(values = c('red', 'blue' )) +
scale_y_continuous(expand = c(0,0), limits = c(0,20)) +
xlab('Album Name') +
ylab('Number of Songs') +
geom_hline(yintercept = 12, lty = 'dashed', color = 'orange') +
ggtitle('Beatles Songs Available on Hook Theory by Album') +
my_theme
```

## Beatles Songs Available on Hook Theory by Album



### Including Plots

Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.