

What's a Bark?

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Faculty Data Practicum

Bring in the Voyages data:

```
load("Voyages.rda")
```

What are the kinds of vessels?

```
Voyages %>% group_by(ship_type) %>% tally() %>%  
  arrange(desc(n))
```

```
## Source: local data frame [51 x 2]
```

```
##
```

```
##      ship_type      n  
##      (chr) (int)  
## 1      BARK    4988  
## 2      BRIG    2802  
## 3      SHIP    1020  
## 4     WHALER    812  
## 5    SCHOONER    578  
## 6     PACKET    260  
## 7 BRITISH RMS    194  
## 8     BRITISH    151  
## 9     CLIPPER    141  
## 10    STEAMER     70  
## ..          ...    ...
```

Summarise each of the voyages based on the log books:

```
load("Ship_logs.rda")
```

Need to fix this up to make speed units clearer.

```
Voyage_summary <- Ship_logs %>% group_by(voyage) %>%  
  summarise(ndays = n(), north_south = n_distinct(NS) >  
    1, max_speed = max(tidyr::extract_numeric(speednum)))
```

Add the ship types to the voyage summary:

```
Joined <- Voyages %>% select(voyage, ship_type) %>%  
  group_by(ship_type) %>% filter(n() > 200) %>%  
  left_join(Voyage_summary, by = c(voyage = "voyage"))
```

```
Joined %>% ggplot(aes(x = ndays, fill = ship_type)) +  
  geom_density(position = "stack") + scale_x_log10() +  
  facet_wrap(~north_south)
```

