

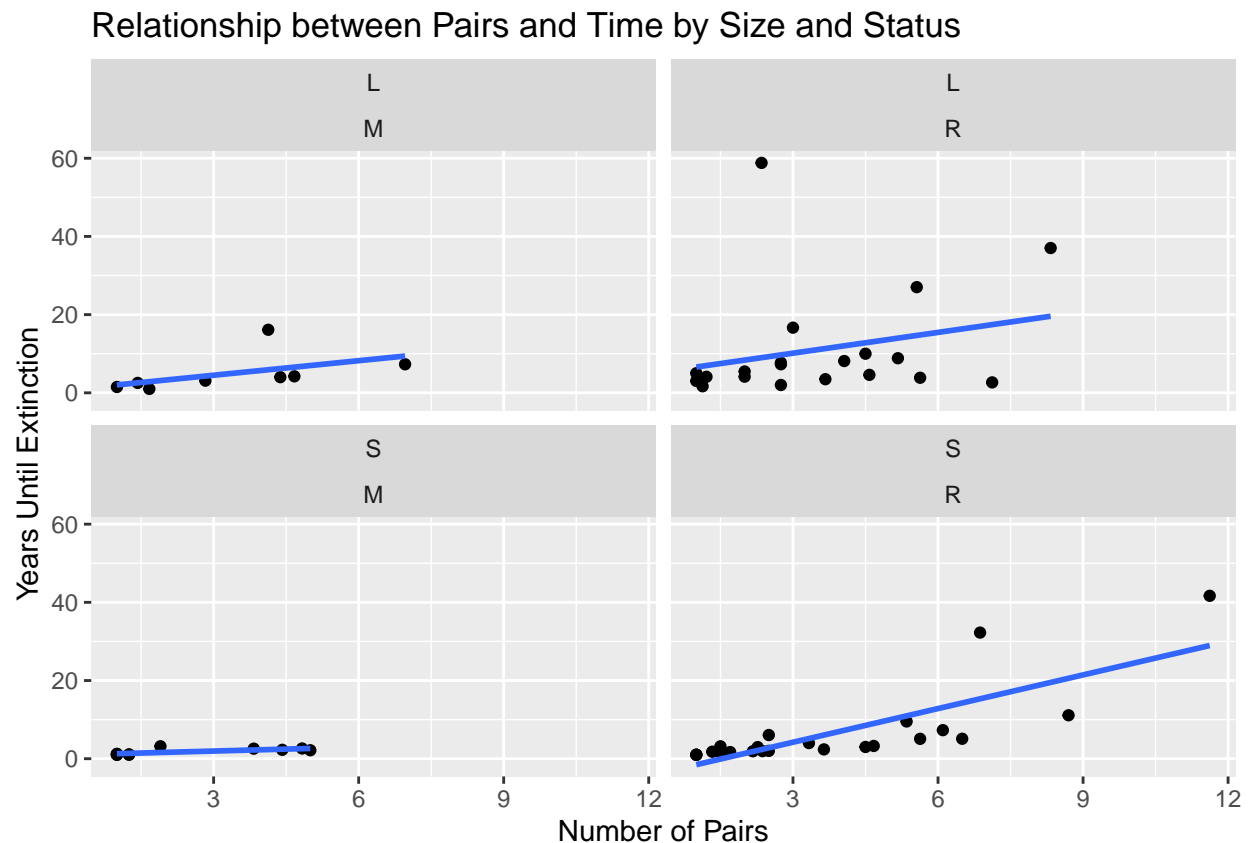
# Factors Affecting Extinction

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## Exercise 1

Begin with describing and fitting a full model in which the intercepts and slopes of the extinction times versus numbers of pairs may be different in all four combinations of size and migratory status.

```
##
## Attaching package: 'dplyr'
## The following objects are masked from 'package:stats':
##
##   filter, lag
## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union
## `geom_smooth()` using formula = 'y ~ x'
```



Comment: The relationship between years until extinction for a species and the number of nesting pairs seems to be bigger for migratory species of either size than for resident species.

```
## # A tibble: 4 x 4
##   intercept slope adj_r_squared combination
##   <dbl> <dbl>      <dbl> <chr>
## 1    0.777 1.24        0.139 L_M
## 2    4.83  1.77        0.0137 L_R
## 3    0.953 0.334        0.446 S_M
## 4   -4.40  2.87        0.609 S_R
```