

Q4

Hawkins_Kelsey

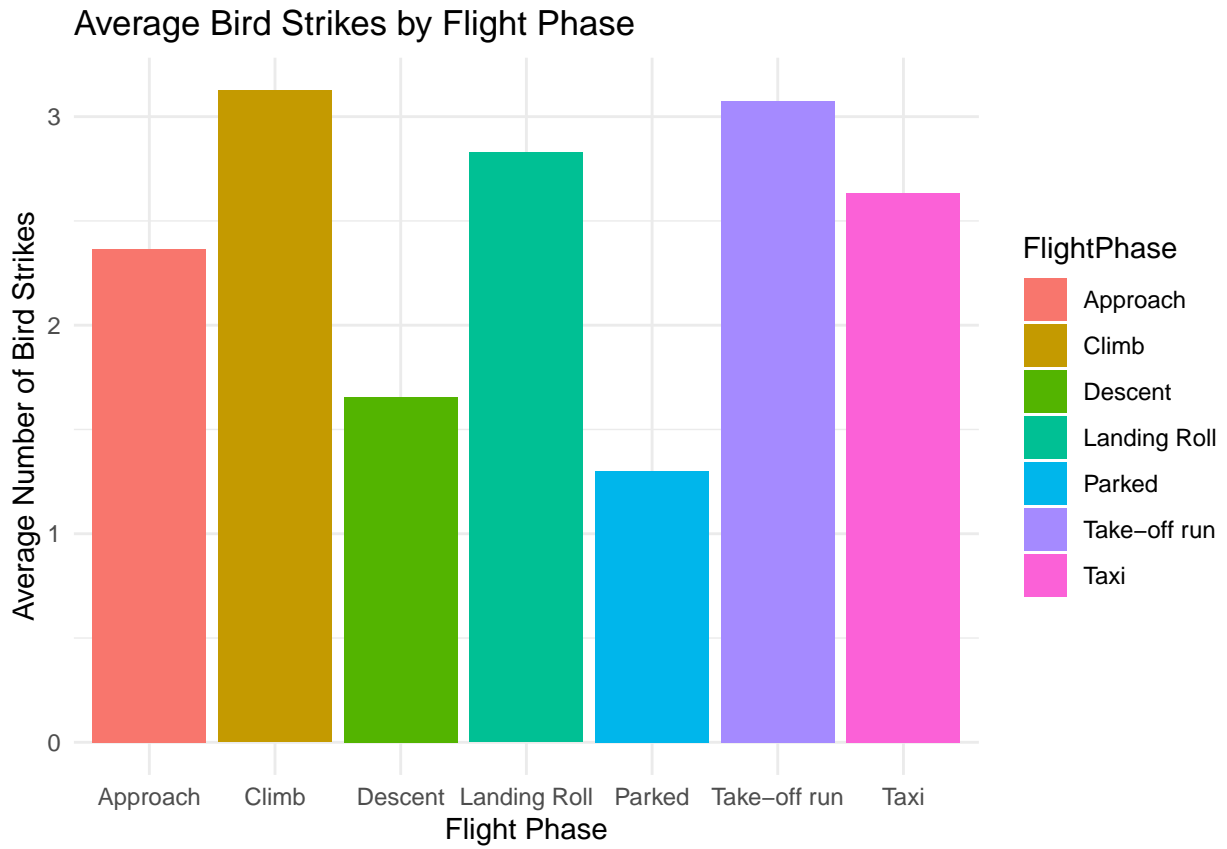
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Based on the flight phase (“Climb”, “Landing Roll”, “Approach”, “Take-off run”), which phase is correlated with the largest average number of bird strikes? Is there a casual relationship between flight phase and bird strikes?

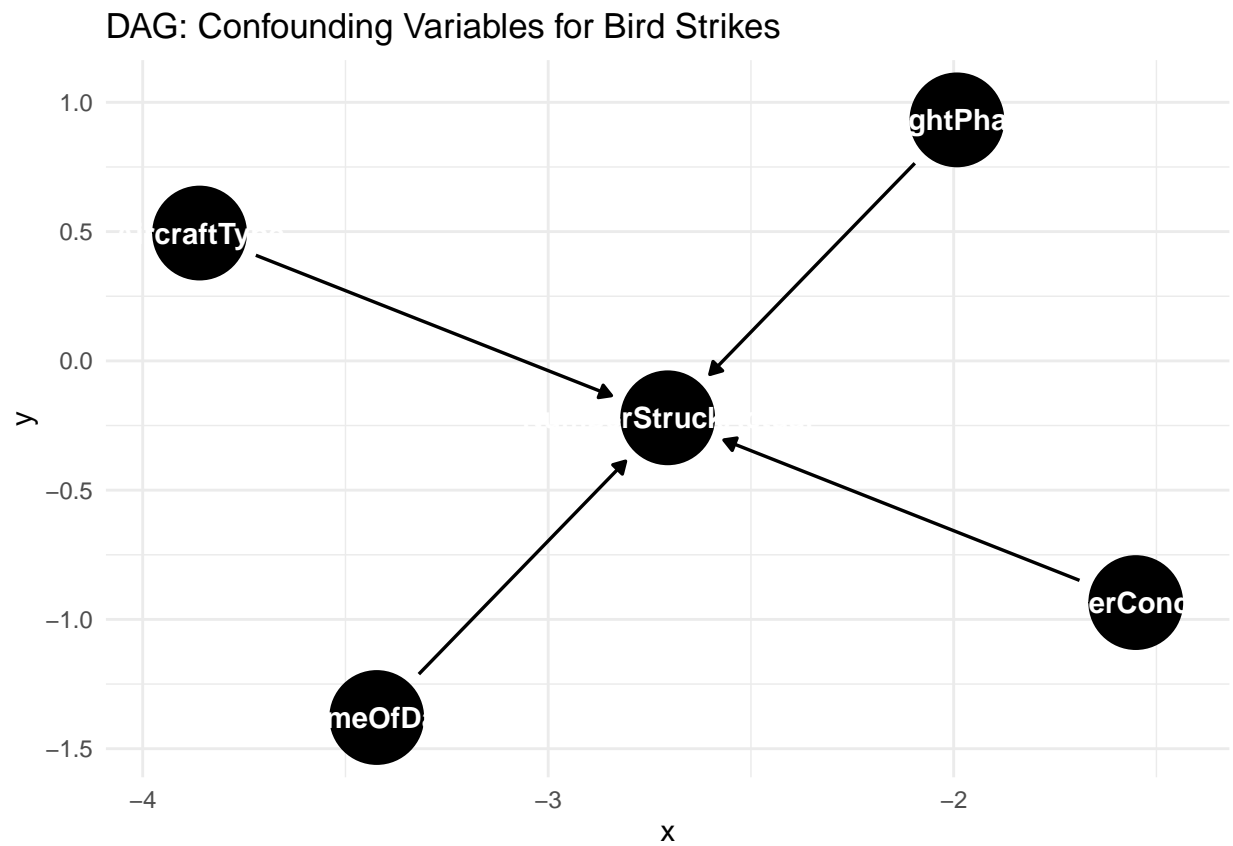
Preliminary Analysis

Summary Overview

```
## # A tibble: 7 x 4
##   FlightPhase MeanStrikes VarianceStrikes Count
##   <fct>          <dbl>          <dbl> <int>
## 1 Approach          2.37           139.  10382
## 2 Climb             3.13           386.   4429
## 3 Descent           1.66           19.9    776
## 4 Landing Roll      2.83           86.5   5047
## 5 Parked            1.3             0.9     10
## 6 Take-off run      3.07           121.   4711
## 7 Taxi             2.64           114.     74
```



DAG



Bayesian Parameter Estimation + Causal Inference

Results: