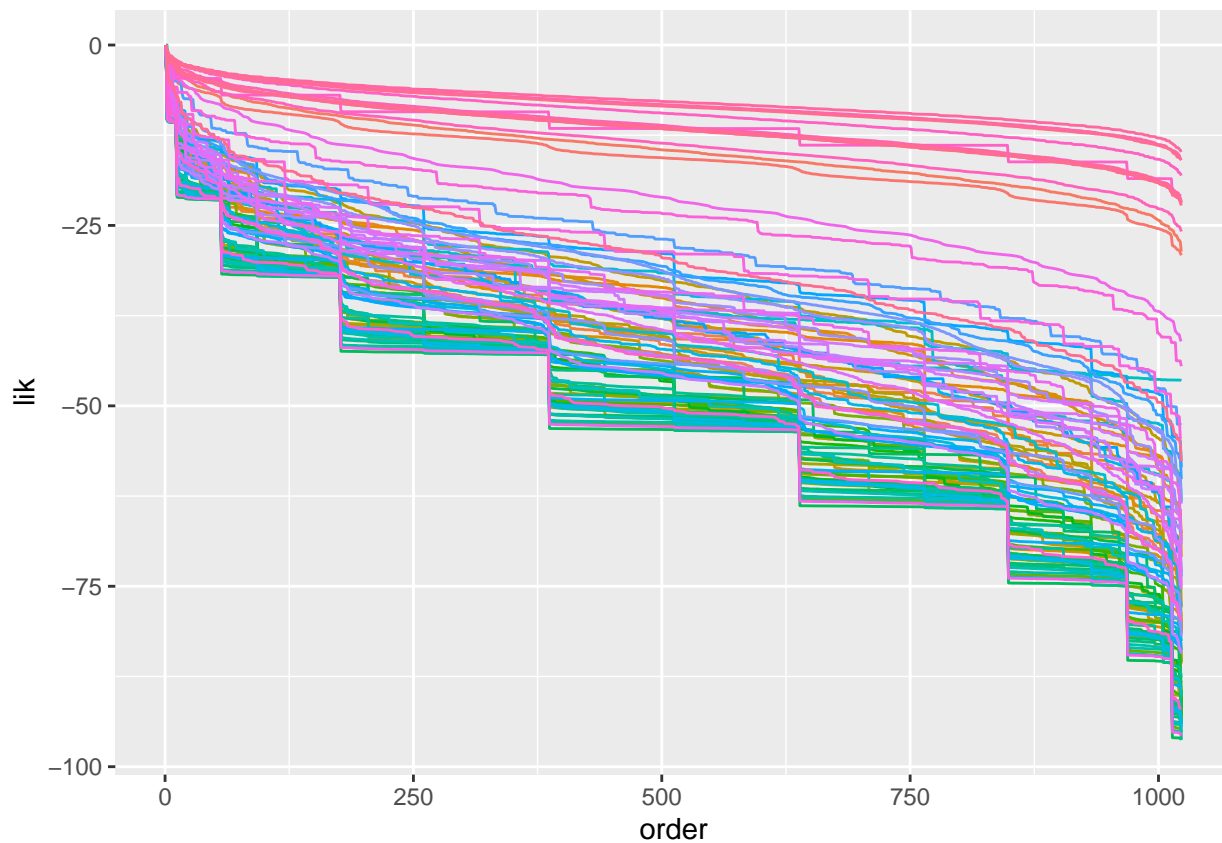# Results of Ordered Likelihood Analysis

Devan Becker

2021-04-14

```r
library(here)
library(dplyr)
library(tidyr)
library(stringr)
library(ggplot2)
ords <- lapply(
    list.files(here("data/pangordlineages"),
        full.names = TRUE),
    read.csv
    ) %>%
    bind_rows() %>%
    separate(col = taxon,
        into = c("dummy", "acc", "lik", "subs"),
        sep = "_") %>%
    mutate(nsubs = str_count(subs, "2"),
        lik = as.numeric(lik)) %>%
    group_by(acc) %>%
    mutate(order = 1:n()) %>%
    ungroup()
```

```r
ggplot(filter(ords, order < 1024)) +
    aes(x = order, y = lik, colour = factor(acc)) +
    geom_line() +
    theme(legend.position = "none")
```

```
ords %>%
    group_by(acc) %>%
    summarise(unique = length(unique(lineage))) %>%
    print(n = Inf)
```

```
## `summarise()` ungrouping output (override with `.groups` argument)
```

```
## # A tibble: 100 x 2
##    acc        unique
##    <chr>       <int>
##  1 ERR4085809      1
##  2 ERR4204823      1
##  3 ERR4305816      1
##  4 ERR4307842      1
##  5 ERR4363387      1
##  6 ERR4364007      1
##  7 ERR4667618      1
##  8 ERR4692364      1
##  9 ERR4693034      1
## 10 ERR4693061      1
## 11 ERR4693079      1
## 12 ERR4693537      1
## 13 ERR4759453      1
## 14 ERR4869446      1
## 15 ERR4869458      1
## 16 ERR4869480      1
## 17 ERR4869487      1
## 18 ERR4869497      1
```

```
## 19 ERR4891711     1
## 20 ERR4891715     1
## 21 ERR4891805     1
## 22 ERR4891841     1
## 23 ERR4891863     1
## 24 ERR4891889     1
## 25 ERR4891898     1
## 26 ERR4891916     1
## 27 ERR4891988     1
## 28 ERR4892048     1
## 29 ERR4892066     1
## 30 ERR4892112     1
## 31 ERR4892152     1
## 32 ERR4892200     1
## 33 ERR4892203     1
## 34 ERR4892293     1
## 35 ERR4892339     1
## 36 ERR4892386     1
## 37 ERR4892392     1
## 38 ERR4892423     1
## 39 ERR4893013     1
## 40 ERR4893031     1
## 41 ERR4893033     1
## 42 ERR4893037     1
## 43 ERR4893080     1
## 44 ERR4893138     1
## 45 ERR4893184     1
## 46 ERR4893186     1
## 47 ERR4893197     1
## 48 ERR4893242     1
## 49 ERR4893353     1
## 50 ERR4893393     1
## 51 ERR4999251     1
## 52 ERR4999255     1
## 53 ERR4999275     1
## 54 ERR4999282     1
## 55 ERR5062571     1
## 56 ERR5063165     1
## 57 ERR5064166     1
## 58 ERR5069584     1
## 59 ERR5069616     1
## 60 ERR5069624     1
## 61 ERR5069871     1
## 62 ERR5070060     1
## 63 ERR5070294     1
## 64 ERR5074314     1
## 65 ERR5076163     1
## 66 ERR5076748     1
## 67 ERR5077151     1
## 68 ERR5077411     1
## 69 ERR5077618     1
## 70 ERR5080893     1
## 71 ERR5080897     1
## 72 ERR5080913     1
```

```
##  73 ERR5080918          1
##  74 ERR5081301          1
##  75 ERR5081316          1
##  76 ERR5082556          1
##  77 ERR5082569          1
##  78 ERR5082580          1
##  79 ERR5082590          1
##  80 ERR5082610          1
##  81 ERR5082630          1
##  82 ERR5082645          1
##  83 ERR5082664          1
##  84 ERR5082695          1
##  85 ERR5082696          1
##  86 ERR5082711          1
##  87 ERR5082712          1
##  88 SRR12639958         1
##  89 SRR12762573         1
##  90 SRR13020989         1
##  91 SRR13020990         1
##  92 SRR13021027         1
##  93 SRR13021032         1
##  94 SRR13021033         1
##  95 SRR13021035         1
##  96 SRR13021038         1
##  97 SRR13021042         1
##  98 SRR13021047         1
##  99 SRR13021097         1
## 100 SRR13092002         1
```