

- You are fishing (a scenario from Josh Goodman), and caught:
 - 10 carp, 3 perch, 2 whitefish, 1 trout, 1 salmon, 1 eel = 18 fish
- How likely is it that next species is trout?
 - $1/18$
- How likely is it that next species is new (i.e. catfish or bass)
 - Let's use our estimate of things-we-saw-once to estimate the new things.
 - $3/18$ (because $N_1=3$)
- Assuming so, how likely is it that next species is trout?
 - Must be less than $1/18$
 - How to estimate?