

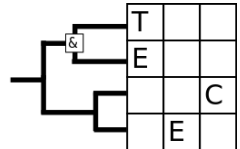
# Project introduction

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2017-10-13

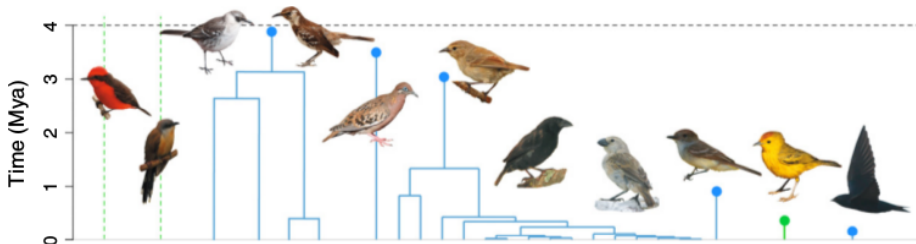
<http://github.com/richelbilderbeek/Science>



<https://youtu.be/01qNRXBQi3w?t=43s>



# Island history<sup>1</sup>

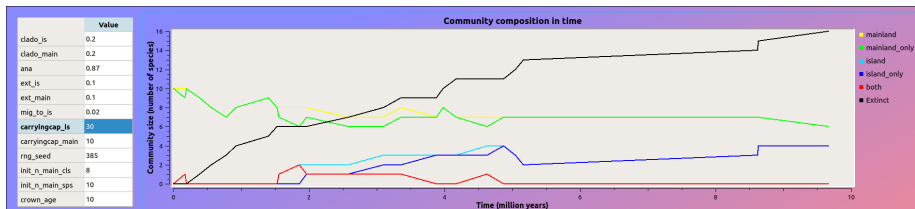


<sup>1</sup>From Valente, Luis M., Albert B. Phillimore, and Rampal S. Etienne. "Equilibrium and nonequilibrium dynamics simultaneously operate in the Galpagos islands." *Ecology letters* 18.8 (2015): 844-852.

DAISIE assumes no mainland extinction

What is the error DAISIE makes in parameters estimation, for varying levels of mainland extinction?

# What has been done?



# What has been done?

	Value
clado_is	0.2
clado_main	0.2
ana	0.87
ext_is	0.1
ext_main	0.1
mig_to_is	0.02
<b>carryingcap_is</b>	<b>30</b>
carryingcap_main	10
rng_seed	385
init_n_main_cls	8
init_n_main_sps	10
crown_age	10

Run DAISIE

Ideal

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"lambda\_c", "mu", "K", "gamma", "lambda\_a", "loglik", "df", "conv"

0.546378 2.26906e-07 3.99998 0.0435242 3.48019e-09 -25.6118 5 0

Reality

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"lambda\_c", "mu", "K", "gamma", "lambda\_a", "loglik", "df", "conv"

0.679294 4.09606e-07 4 0.0432778 2.27861e-05 -24.7622 5 0

# What still needs to be done?

- setup an analysis
- run simulations
- write article
- fix potential flaws in current setup



# My favorite planning

- January: Setup and run analysis. Write abstract, introduction, methods
- February and March: Analyse results. Write results, conclusion, discussion

😊 THANKS! 😊