How to work though a project without getting overwhelmed by new topics and data analyses

Step 1: Find initial paper

What you are aiming for:
one or two key review papers

Step 2: Find seminal papers

What you are aiming for:
as many data papers as you need to cover your initial data analysis plans

Genome-Wide Scan for Adaptive Divergence and Association with Population

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☐ include citations

Genome-wide scan for adaptive divergence and association with population-specific covariates

M Gautier - Genetics, 2015 - academic.oup.com

In population genomics studies, accounting for the neutral covariance structure across population allele frequencies is critical to improve the robustness of genome-wide scan approaches. Elaborating on the BayEnv model, this study investigates several modeling extensions (i) to improve the estimation accuracy of the population covariance matrix and all the related measures,(ii) to identify significantly overly differentiated SNPs based on a calibration procedure of the XtX statistics, and (iii) to consider alternative covariate models …

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M Gautier - 2015 - agris.fao.org

In population genomics studies, accounting for the neutral covariance structure across population allele frequencies is critical to improve the robustness of genome-wide scan approaches. Elaborating on the BayEnv model, this study investigates several modeling

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Genome-wide scan for adaptive divergence and association with population-specific covariates

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Finding the genomic basis of local adaptation: pitfalls, practical solutions, and future directions

S Hoban, JL Kelley, KE Lotterhos… - The American …, 2016 - journals.uchicago.edu

Uncovering the genetic and evolutionary basis of local adaptation is a major focus of evolutionary biology. The recent development of cost-effective methods for obtaining high …

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[PDF] Is there a genetic paradox of biological invasion

A Estoup, V Ravigné, R Hufbauer… - Annual Review of …, 2016 - researchgate.net

Bottlenecks in population size can reduce fitness and evolutionary potential, yet introduced species often become invasive. This poses a dilemma referred to as the genetic paradox of …

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invasive species

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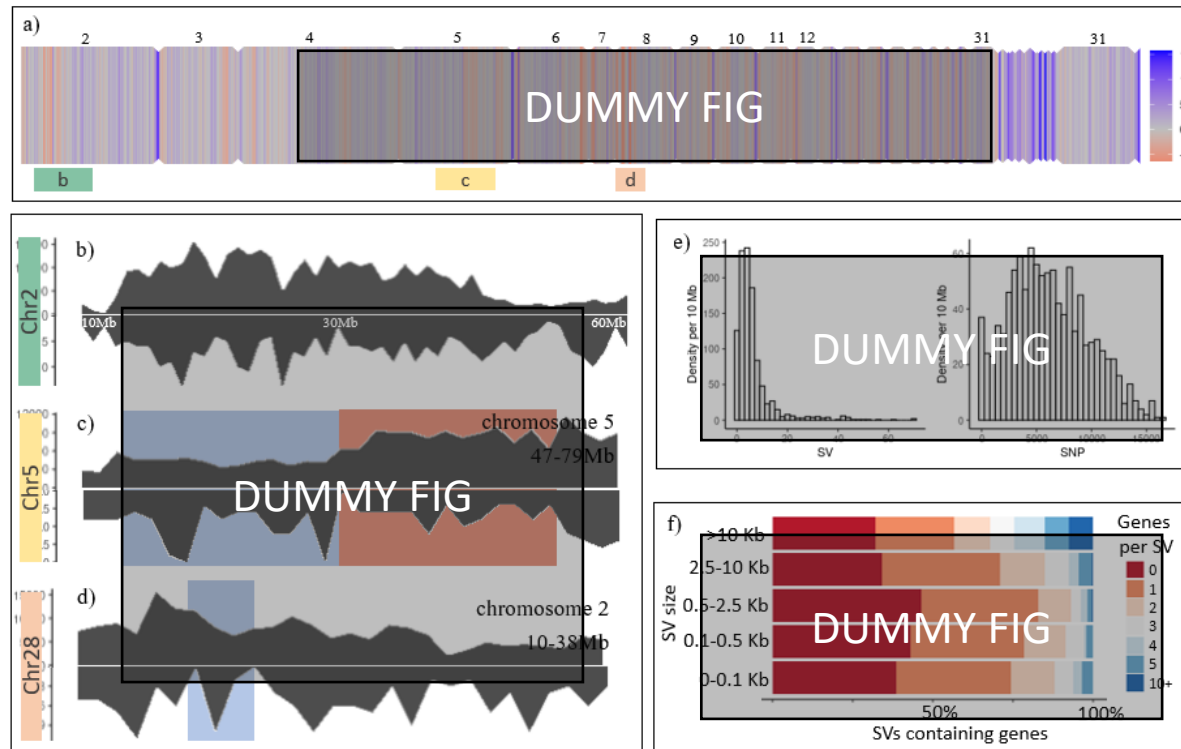Since 2021
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Genome-wide scan for adaptive divergence and association with population-specific covariates

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Rapid and strong population genetic differentiation and genomic signatures of climatic adaptation in an **invasive** mealybug

L Ma, LJ Cao, AA Hoffmann, YJ Gong… - Diversity and …, 2020 - Wiley Online Library

… of climatic adaptation in an **invasive species** despite very low genetic diversity in the introduced population. Our study suggests rapid evolution in an **invasive species** which are worth …

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Stage-specific overcompensation, the hydra effect, and the failure to eradicate an **invasive** predator

E Grosholz, G Ashton, M Bradley… - Proceedings of the …, 2021 - National Acad Sciences

[HTML] pnas.org
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Step 3: make some dummy plots

What you are aiming for:
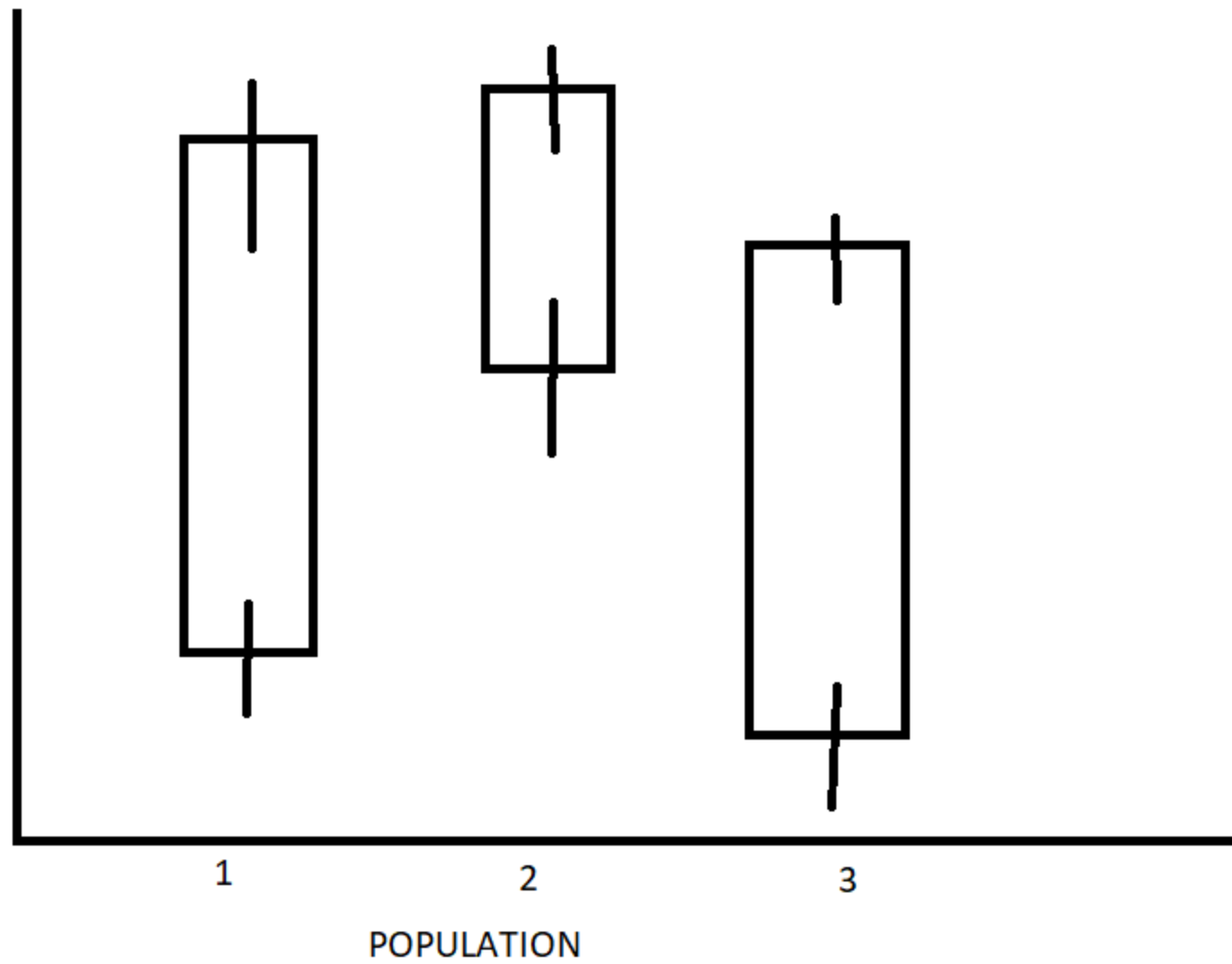*dummy versions of all your main figures and tables.*

Greenberg et al (2020)

Greenberg et al (2020)

https://github.com/StuntsPT/
pyRona/blob/master/pyRona/
R/Baypass_workflow.R

Program manual, page 5

POPULATION

-Everything up to this point can be done before/during data collection-

Step 4: Start analysing

What you are aiming for:
Produce plots with your actual data.

Step 5: Iteration

What you are aiming for:
iron out the details

Step 6: Final clean up

What you are aiming for:
make sure the workflow/analyses/story are clear