A computational reproducible manuscript

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[1]**a**
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Abstract

Archive statement:
All data (simulated data and code) is made available on GitHub. If accepted, it will be archived with provided DOI in an appropriate scientific data repositoriy.

Keywords: Reproducibility, manuscript

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Introduction

This manuscript is an entirely computationally reproducible manuscript. The code and the manuscript is contained in a git repository on GitHub. This git repository is organized following the principles detailed in "A quick guide to organizing your computational biology project" [1]. The compiled version of the manuscript can be found here. The Github repository containing the manuscript can be found here.

This manuscript was created as an exercise of the git skills that we have learned over the past few days and as a demonstration of how those skills can be used to improve scientific workflows.

Methods

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Name	Formula	
timely	$\text{lfc}(t)$	Function of time
abs_sum	$\sum_t \|lfc(t)\|$	Always positive
max	$\max_t \|lfc(t)\|$	Always positive
min	$\min_t \|lfc(t)\|$	Always positive

Our data set comprises 300 samples in 2 dimensions.
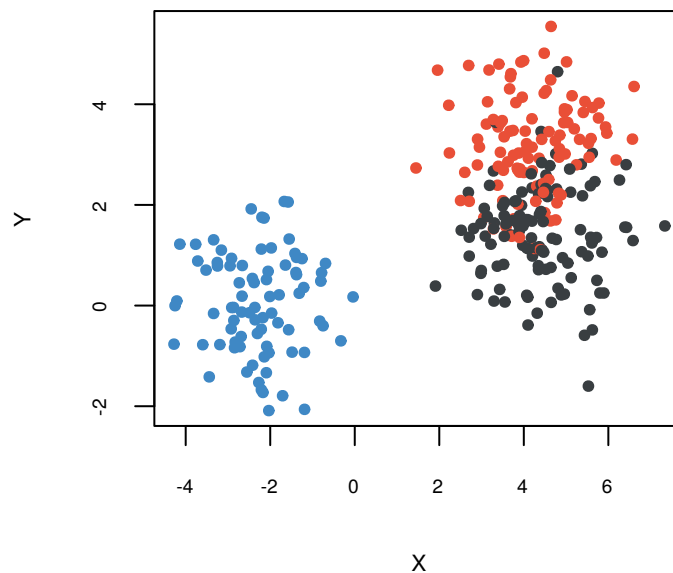
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Discussion

CQFD.

References

[1] William Stafford Noble. A quick guide to organizing computational biology projects. *PLOS Computational Biology*, 5(7): 1–5, 07 2009. doi: 10.1371/journal.pcbi.1000424. URL https://doi.org/10.1371/journal.pcbi.1000424.