

Ferramentas de bioinformática para facilitar a vida do pesquisador

Maria Jara Montibeller



MariaJaraMontibeller

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MariaJaraMontibeller / README.md

Hi! I'm Jara 🙋

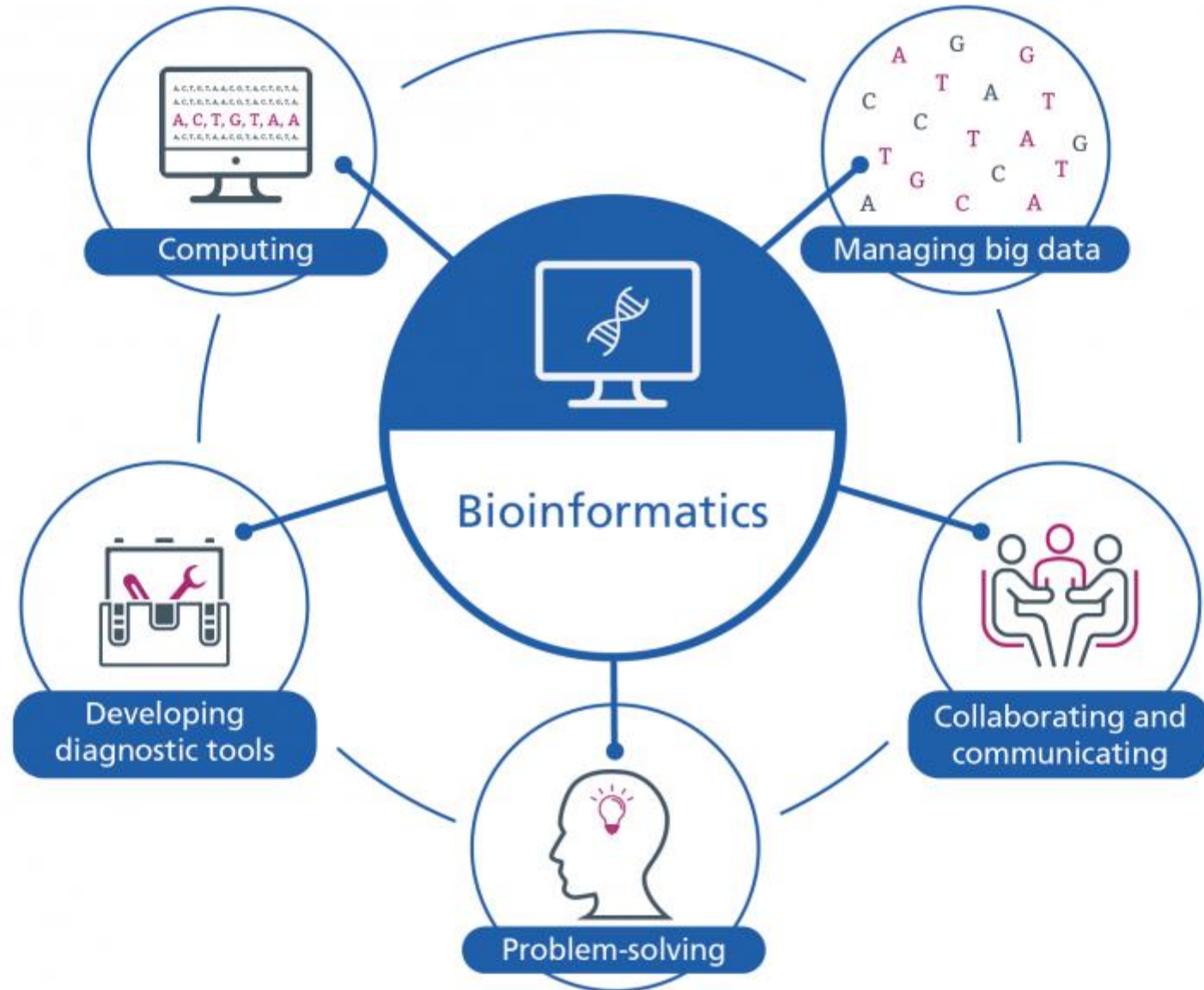
- 🔬 I'm currently working with Bioinformatic and Metagenomic
- 🌱 I'm a Data Science Student at the UNIVESP

Now I'm learning... R Python S

R⁶ RESEARCH GATE LINKEDIN

Popular repositories

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Minha trilha de estudos para Data Science

Cursos, podcasts, canais do YouTube & tudo mais que usei na missão do primeiro emprego na área.



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RStudio

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Untitled2*

Source on Save Run Source

```
1 # Cabeçalho
2 head(iris)
3
4 #Média do Comprimento da Pétala
5 Media<- mean(iris$Petal.Length)
6 Media
7
8 #Mediana
9 median(iris$Petal.Length)
10
11 #Variância
12 var(iris$Petal.Length)
13
14 #Histograma do Comprimento da Pétala
15 hist(iris$Petal.Length, main = "Comprimento da Pétala", xlab = "Petal.Length")
16
```

16:1 (Top Level) R Script

Editor de Código

Environment History Connections

Import Dataset

Global Environment

values

Media	3.758
-------	-------

Histórico

Console Markers

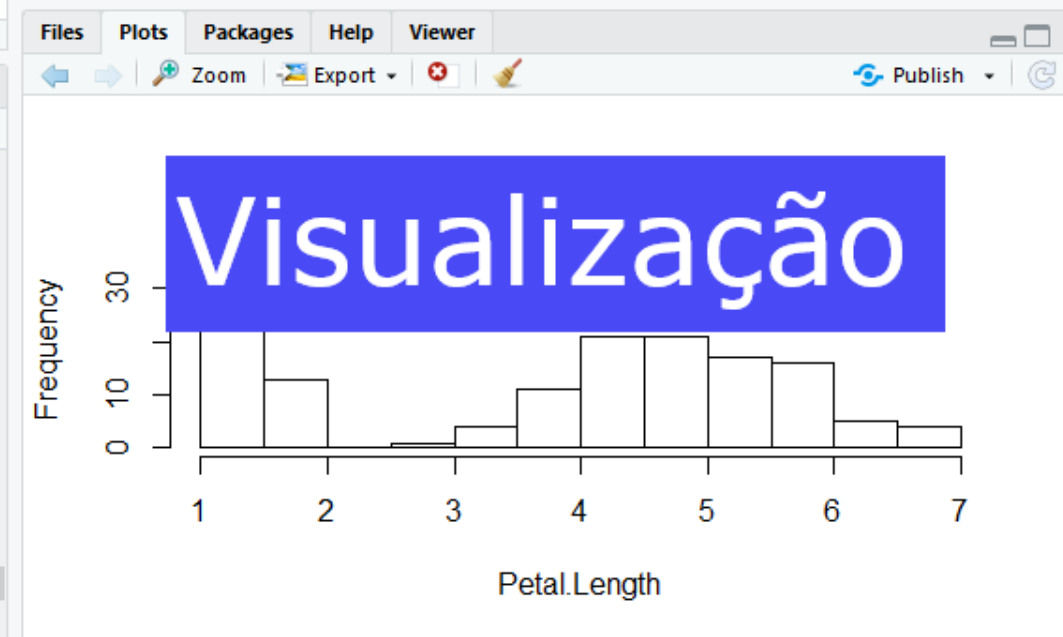
```
> # Cabeçalho
> head(iris)
  Sepal.Length Sepal.width Petal.Length Petal.width Species
1          5.1         3.5         1.4         0.2  setosa
2          4.9         3.0         1.4         0.2  setosa
3          4.7         3.2         1.2         0.2  setosa
4          4.6         3.1         1.5         0.2  setosa
5          5.0         3.6         1.4         0.2  setosa
6          5.4         3.9         1.4         0.2  setosa

> #Média do Comprimento da Pétala
> Media<- mean(iris$Petal.Length)
> Media
[1] 3.758

> #Mediana
> median(iris$Petal.Length)
[1] 4.35

> #Variância
> var(iris$Petal.Length)
[1] 4.34
```

Console



Práticas de hoje

- Construção de gráfico;
- Análise estatística;
- Análise filogenética;
- Análise de qualidade de dados de arquivos fasta.q.

Vaccination data

Download links: <https://covid19.who.int/who-data/vaccination-data.csv>

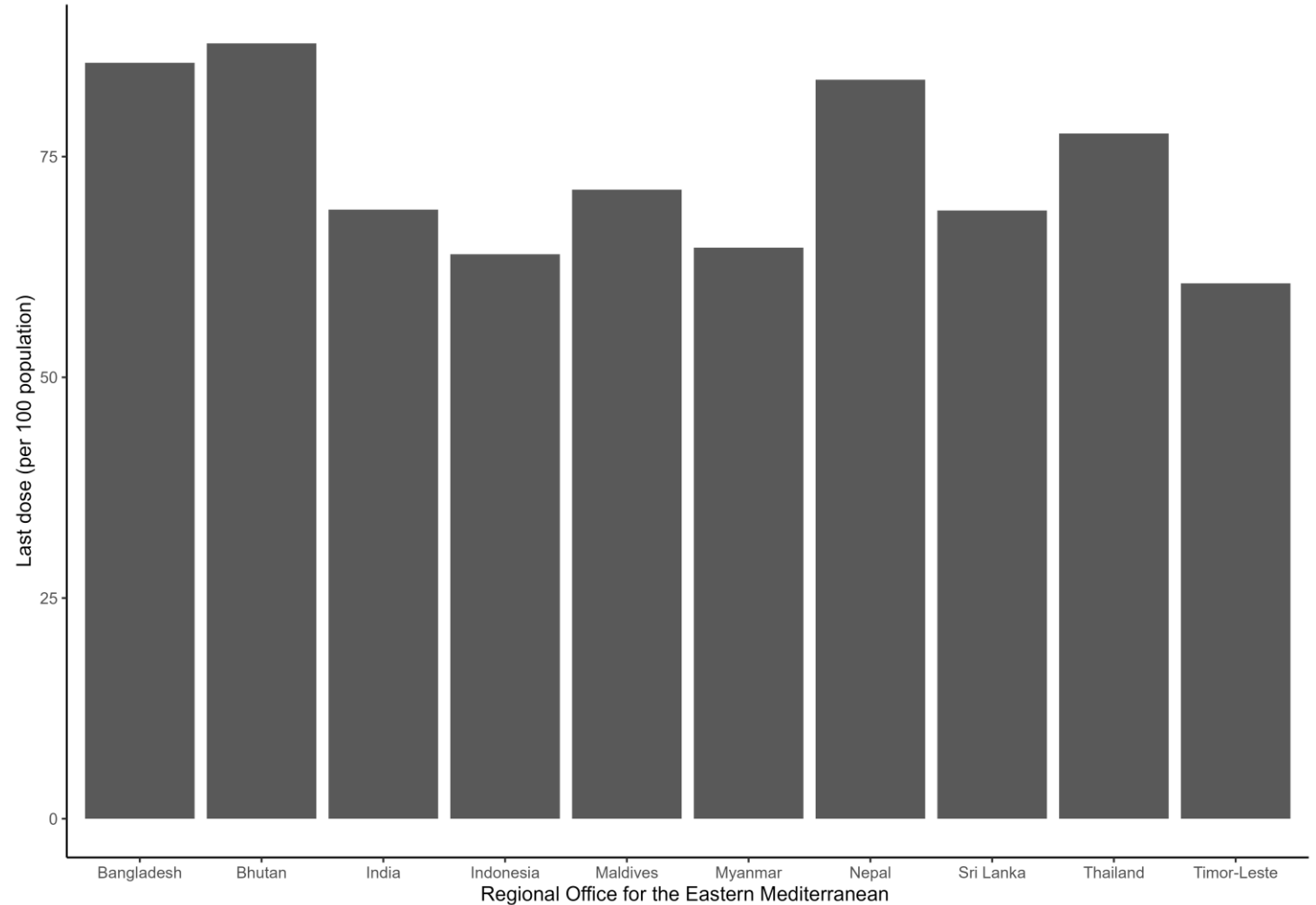


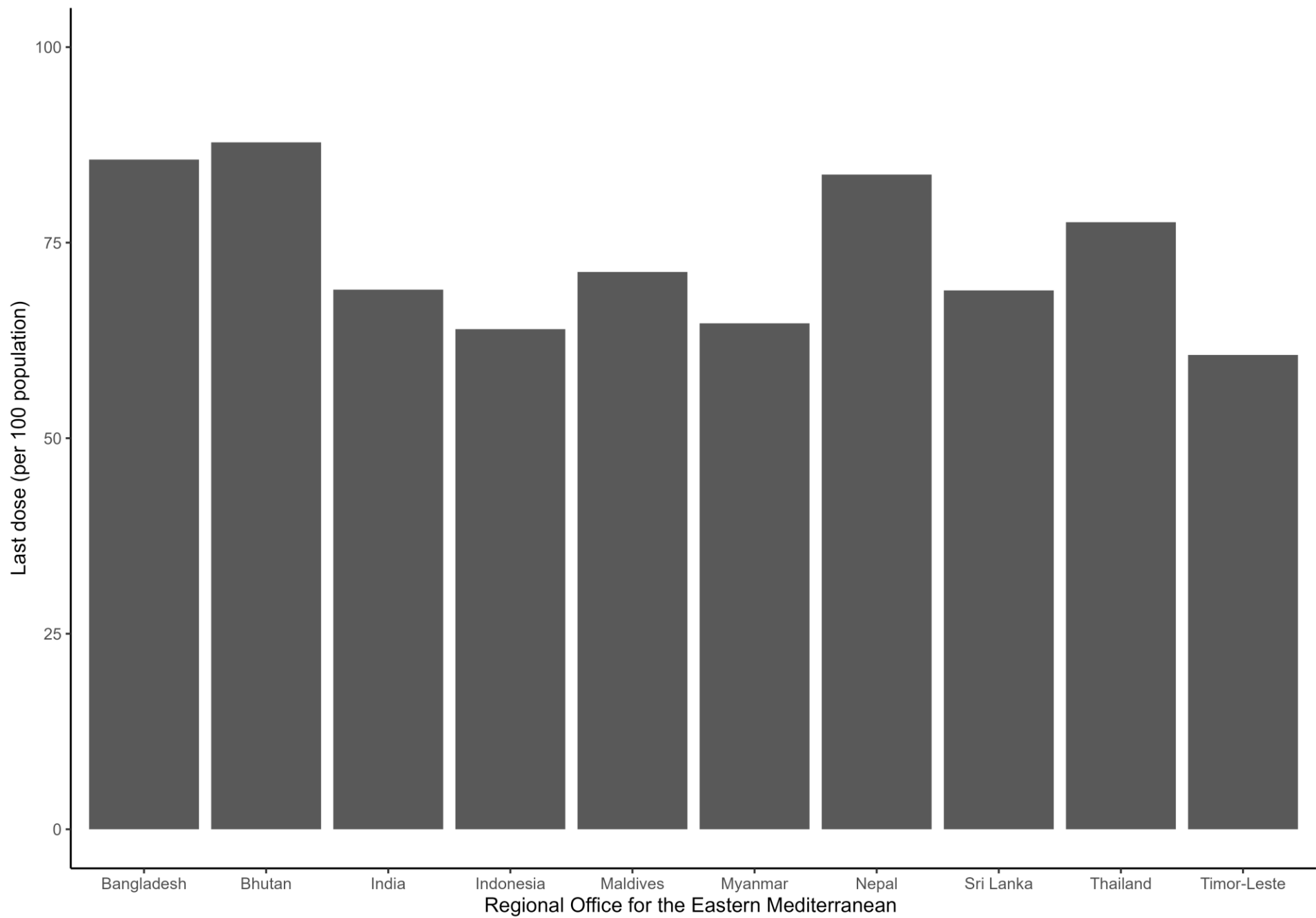
Field name	Type	Description
COUNTRY	String	Country, territory, area
ISO3	String	ISO Alpha-3 country code
WHO_REGION	String	WHO regional offices: WHO Member States are grouped into six WHO regions: Regional Office for Africa (AFRO), Regional Office for the Americas (AMRO), Regional Office for South-East Asia (SEARO), Regional Office for Europe (EURO), Regional Office for the Eastern Mediterranean (EMRO), and Regional Office for the Western Pacific (WPRO).
DATA_SOURCE	String	Indicates data source: - REPORTING: Data reported by Member States, or sourced from official reports - OWID: Data sourced from Our World in Data:

WHO regional offices: WHO Member States are grouped into six WHO regions:

- Regional Office for Africa (AFRO),
- Regional Office for the Americas (AMRO),
- Regional Office for South-East Asia (SEARO),
- Regional Office for Europe (EURO),
- Regional Office for the Eastern Mediterranean (EMRO),
- Regional Office for the Western Pacific (WPRO).

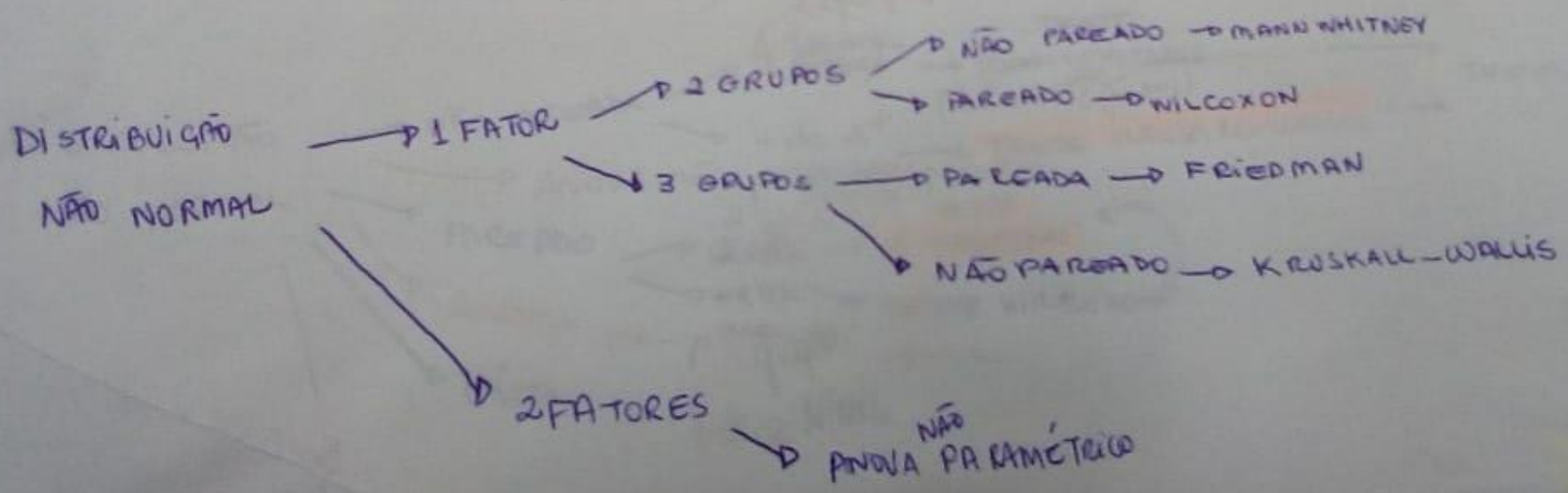
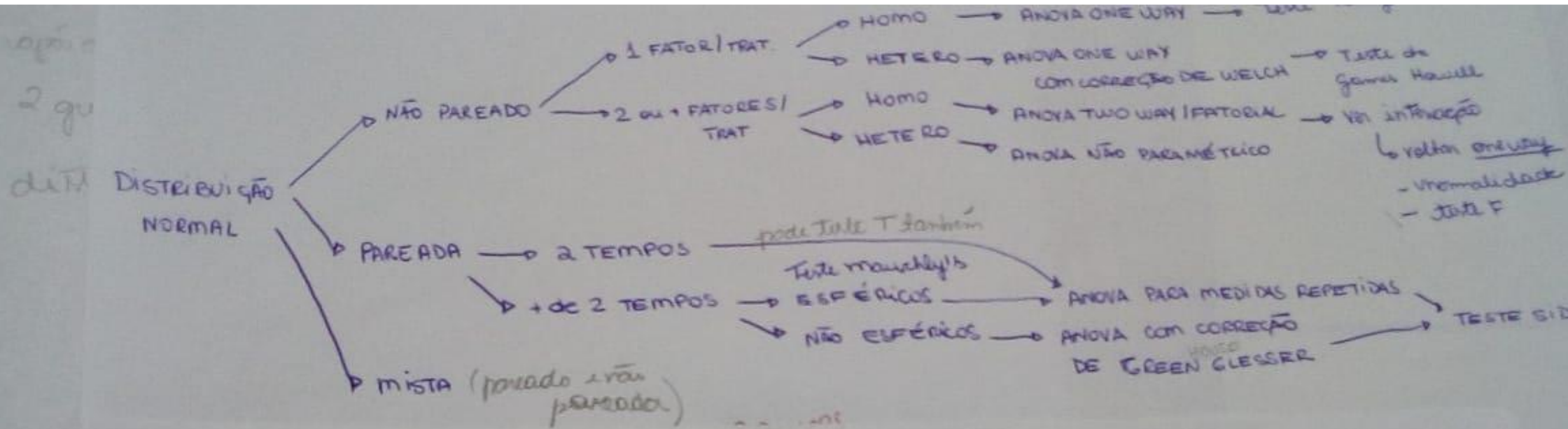
Construção de gráfico





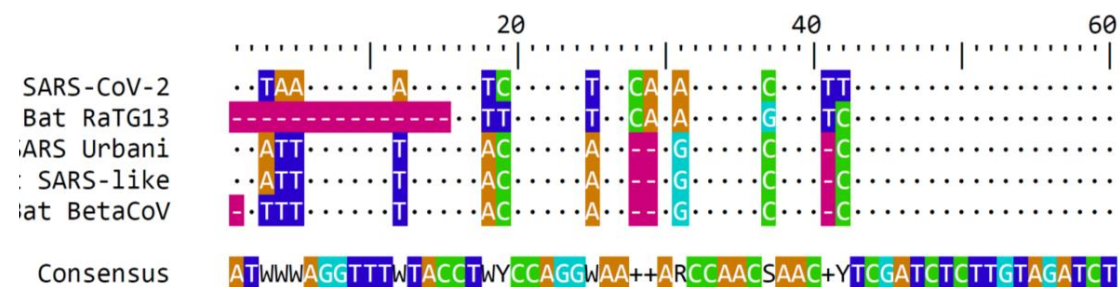
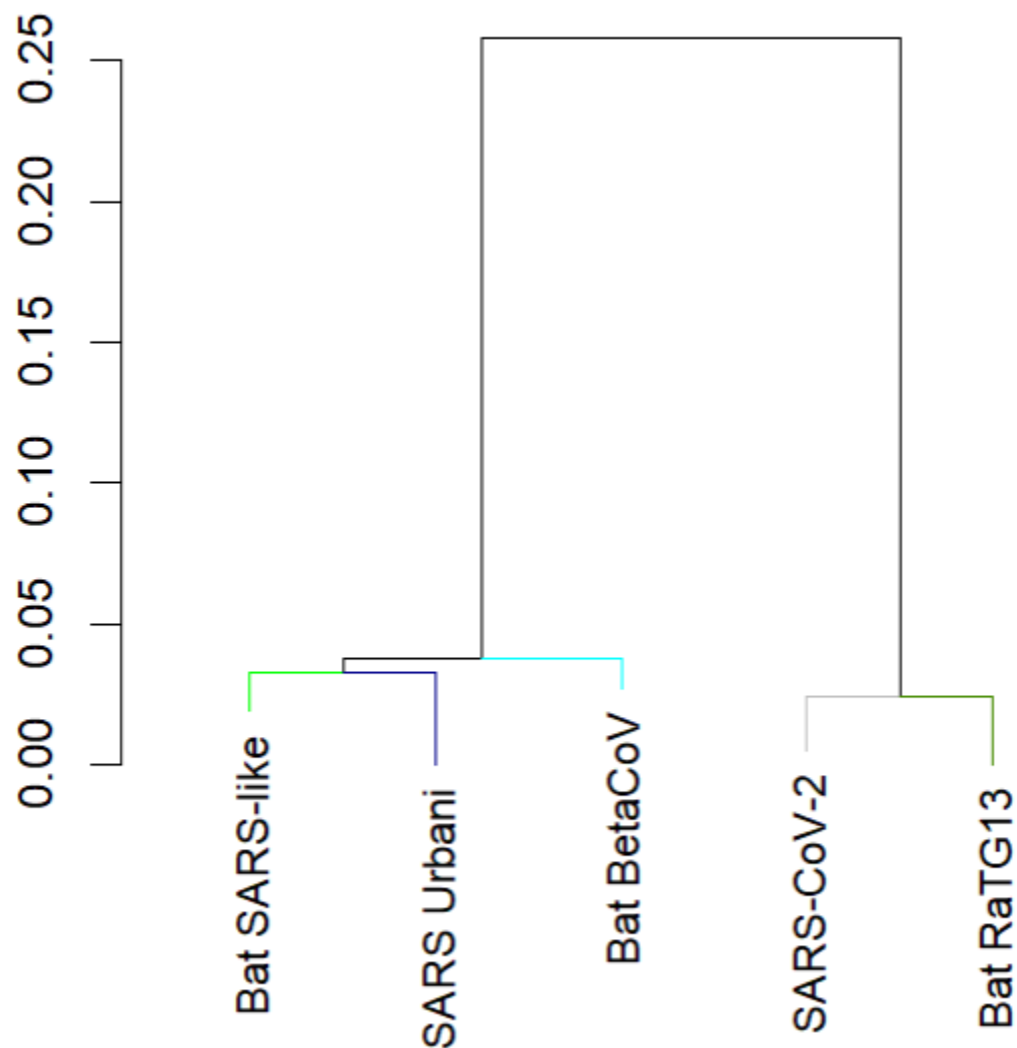
Análise estatística

https://github.com/MariaJaraMontibeller/Ferramentas-de-bioinformatica-para-facilitar-a-vida-do-pesquisador/blob/main/exercicio_2.xlsx



re usou 2
dados totais

Análise filogenética



Análise de qualidade de dados de arquivos fasta.q

<https://www.bioconductor.org/>

<https://www.bioconductor.org/packages/devel/bioc/vignettes/dada2/inst/doc/dada2-intro.html>

<http://benjjneb.github.io/dada2/>

Material suplementar

<https://resendejss.github.io/introducaoALinguagemR/introdu%C3%A7%C3%A3o.html#instala%C3%A7%C3%A3o-do-r>

http://www.uft.edu.br/engambiental/prof/catalunha/arquivos/r/r_bruno.pdf