Elementos acadêmicos

Neste documento, temos exemplos de expressões matemáticas ([Seção 1](#sec-expressoes)) e gráficos ([Seção 2](#sec-graficos)).

## Expressões matemáticas

Calcule o limite considerando que:

## Gráficos

Na [Figura 1](#fig-grafico-pinguins), utilizamos os pacotes palmerpenguins e tidyverse (HORST; HILL; GORMAN, 2022; WICKHAM *et al.*, 2019), e o software R (R CORE TEAM, 2024):

library(tidyverse)  
library(palmerpenguins)  
  
penguins |>  
 ggplot() +  
 aes(x = flipper\_length\_mm, y = body\_mass\_g) +  
 geom\_point(aes(color = species, shape = species)) +  
 scale\_color\_manual(values = c("darkorange", "darkorchid", "cyan4")) +  
 theme\_minimal()

|  |
| --- |
| Figura 1: Gráfico de dispersão |

Na [Tabela 1](#tbl-pinguins), temos os dados brutos:

penguins |>   
 count(species, island) |>   
 flextable::flextable()

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Tabela 1   | species | island | n | | --- | --- | --- | | Adelie | Biscoe | 44 | | Adelie | Dream | 56 | | Adelie | Torgersen | 52 | | Chinstrap | Dream | 68 | | Gentoo | Biscoe | 124 | |

HORST, A.; HILL, A.; GORMAN, K. [**palmerpenguins: Palmer Archipelago (Antarctica) Penguin Data**](https://allisonhorst.github.io/palmerpenguins/). [s.l: s.n.]

R CORE TEAM. [**R: A Language and Environment for Statistical Computing**](https://www.R-project.org/). Vienna, Austria: R Foundation for Statistical Computing, 2024.

WICKHAM, H.; AVERICK, M.; BRYAN, J.; CHANG, W.; MCGOWAN, L. D.; FRANÇOIS, R.; GROLEMUND, G.; HAYES, A.; HENRY, L.; HESTER, J.; KUHN, M.; PEDERSEN, T. L.; MILLER, E.; BACHE, S. M.; MÜLLER, K.; OOMS, J.; ROBINSON, D.; SEIDEL, D. P.; SPINU, V.; TAKAHASHI, K.; VAUGHAN, D.; WILKE, C.; WOO, K.; YUTANI, H. [Welcome to the tidyverse](https://doi.org/10.21105/joss.01686). **Journal of Open Source Software**, v. 4, n. 43, p. 1686, 2019.