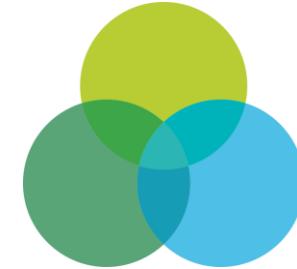




PPG Ecologia & Conservação
Universidade Estadual de Santa Cruz



leac
Laboratório de Ecologia Aplicada
à Conservação

FLUXO DE TRABALHO REPRODUTÍVEL COM DADOS ECOLÓGICOS EM R

RELATÓRIO R MARKDOWN

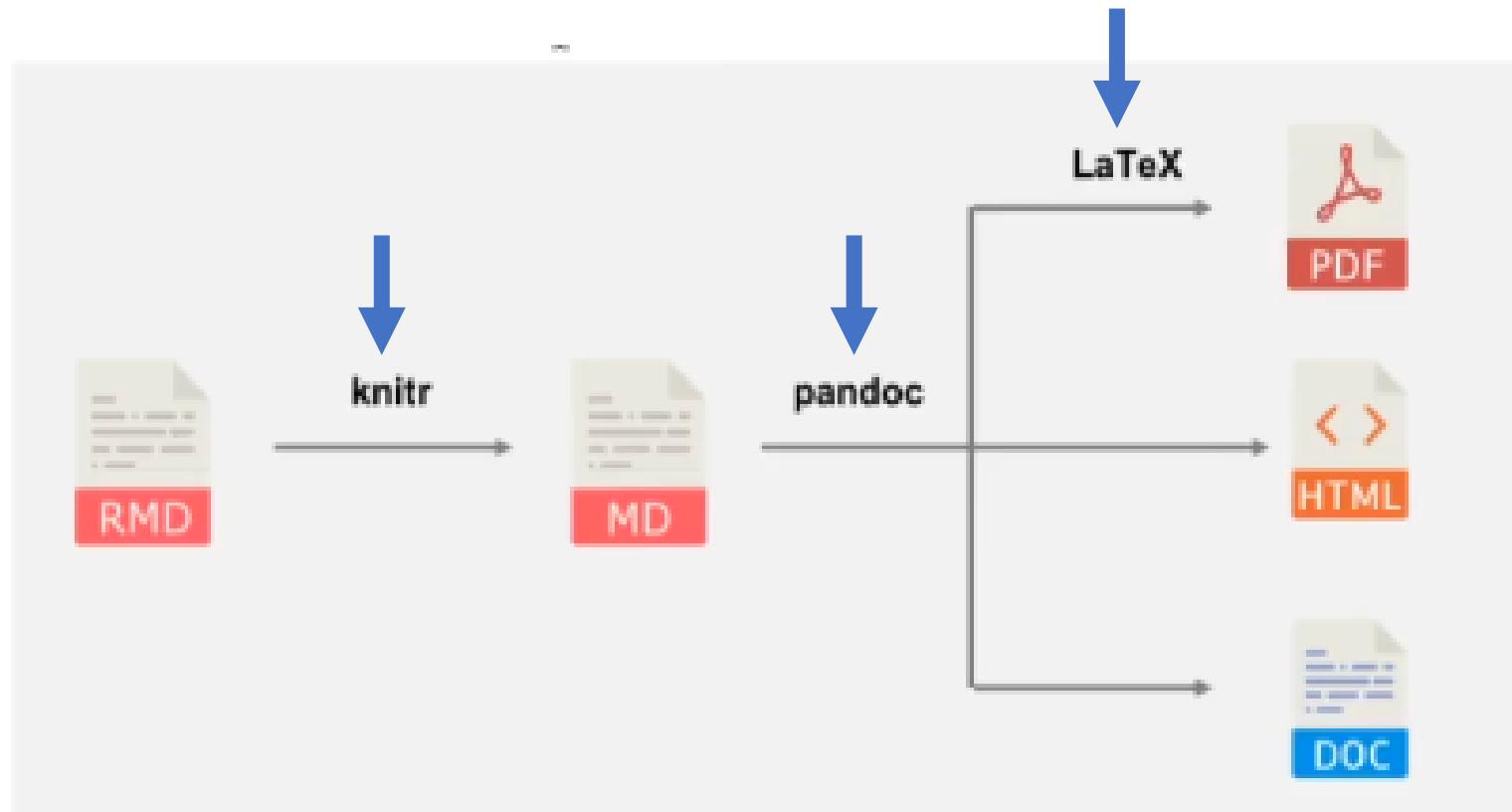


PROFESSORES:
- Diogo Rocha
- Hernani Ramos

SETEMBRO/2025

RELATÓRIO R MARKDOWN

TIPOS DE DOCUMENTOS GERADOS

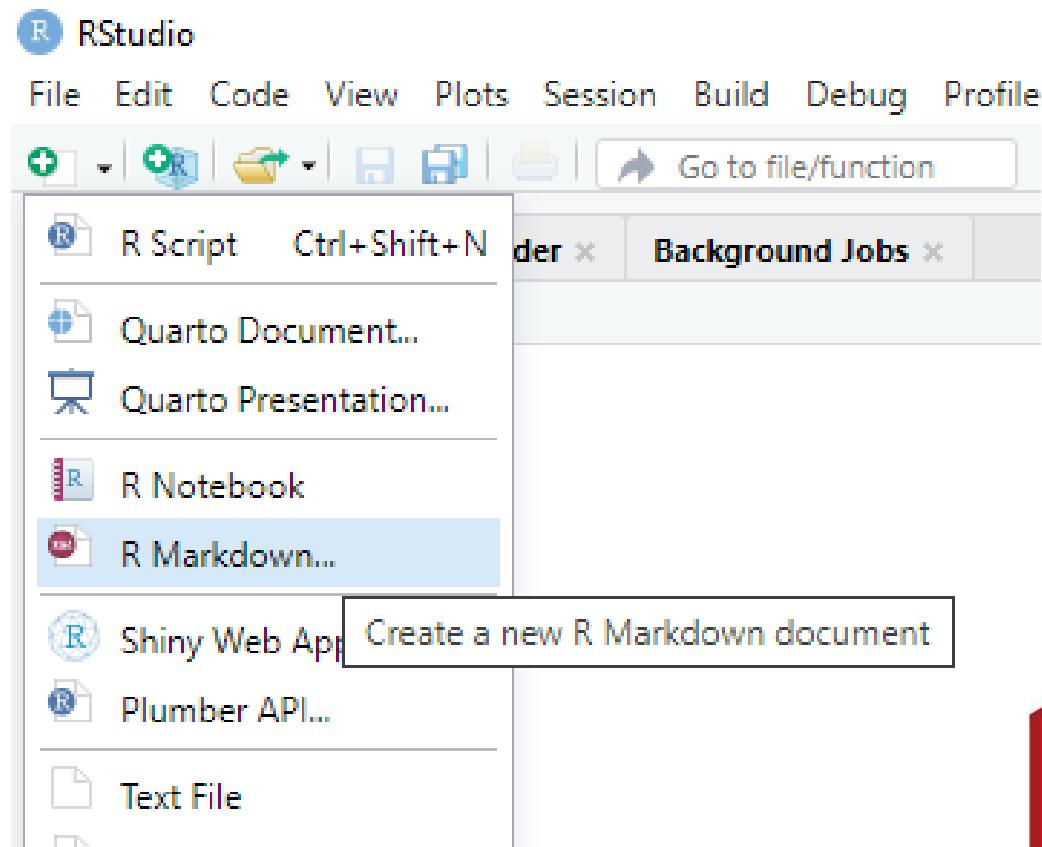


R Markdown = R + Markdown

Preparação do ambiente

Etapa:

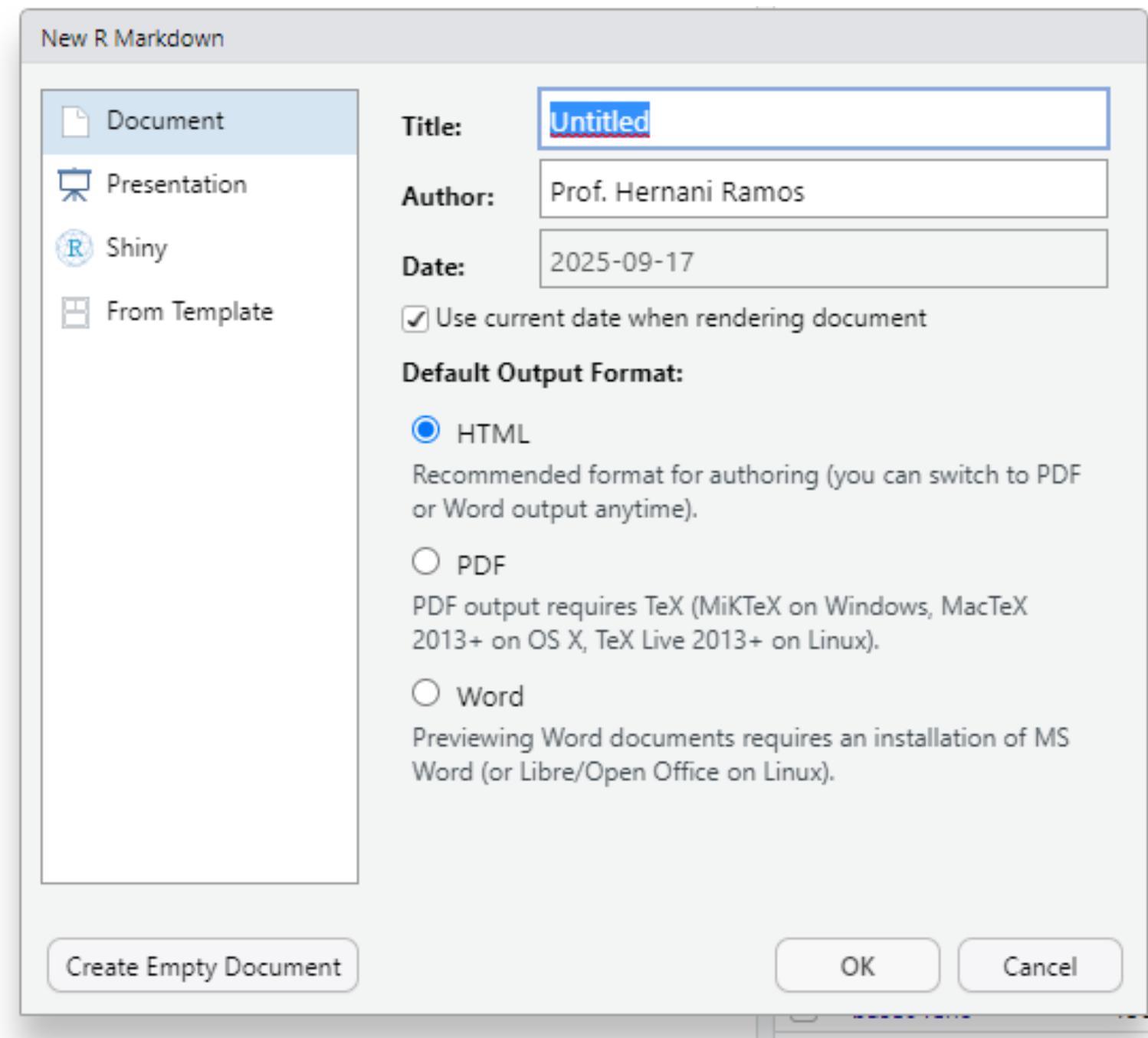
- Abrir RStudio
- New file → R Markdown



Preparação do Relatório

Etapa:

- **Preencher dados, título, etc...**



Preparação do Relatório

Explorar o arquivo de exemplo gerado no RStudio, aproveitar para:

- explicar o cabeçalho
- explicar funcionamento de chunks
- explicar linguagem para o texto de base
- testar a função Knit para imprimir arquivos HTML, PDF, WORD, PPT



Etapa:

- Checar se o HTML imprime ok



C:/Users/Administrador/Desktop/teste.html

teste.html | Open in Browser | Find | Publish

Untitled

Prof. Hernani Ramos
2025-09-17

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
summary(cars)
```

```
##      speed      dist
##  Min.   : 4.0   Min.   : 2.00
##  1st Qu.:12.0   1st Qu.: 26.00
##  Median :15.0   Median : 36.00
##  Mean    :15.4   Mean    : 42.98
```

Etapa:

- **Caso o HTML não funcione, rode o código:
(Ctrl + Shift + N)**

erro: Erro: .onLoad falhou em loadNamespace() para 'bslib', detalhes:
chamada: loadNamespace(i, c(lib.loc, .libPaths()), versionCheck = vI[[i]]) erro:
namespace 'fastmap' 1.1.1 is already loaded, but >= 1.2.0 is required
Execução interrompida

```
remove.packages("fastmap")
install.packages("fastmap")
```

Etapa:

- Checar se o WORD imprime ok



teste [Modo de Compatibilidade] - Word Hernani Gomes da Cunha

Layout Referências Correspondências Revisão Exibir Ajuda Diga-me o que você deseja fazer

AaBbCcDd AaBbCcI AaBbCcI AaBbCcI AaBbCcI

Abstract Author Bibliogr... Compact Corpo d...

Parágrafo Estilos

Untitled

Prof. Hernani Ramos

2025-09-17

R Markdown

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Etapa:

- Checar se o PDF imprime ok

PDF

Untitled

Prof. Hernani Ramos

2025-09-17

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When you click the Knit button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

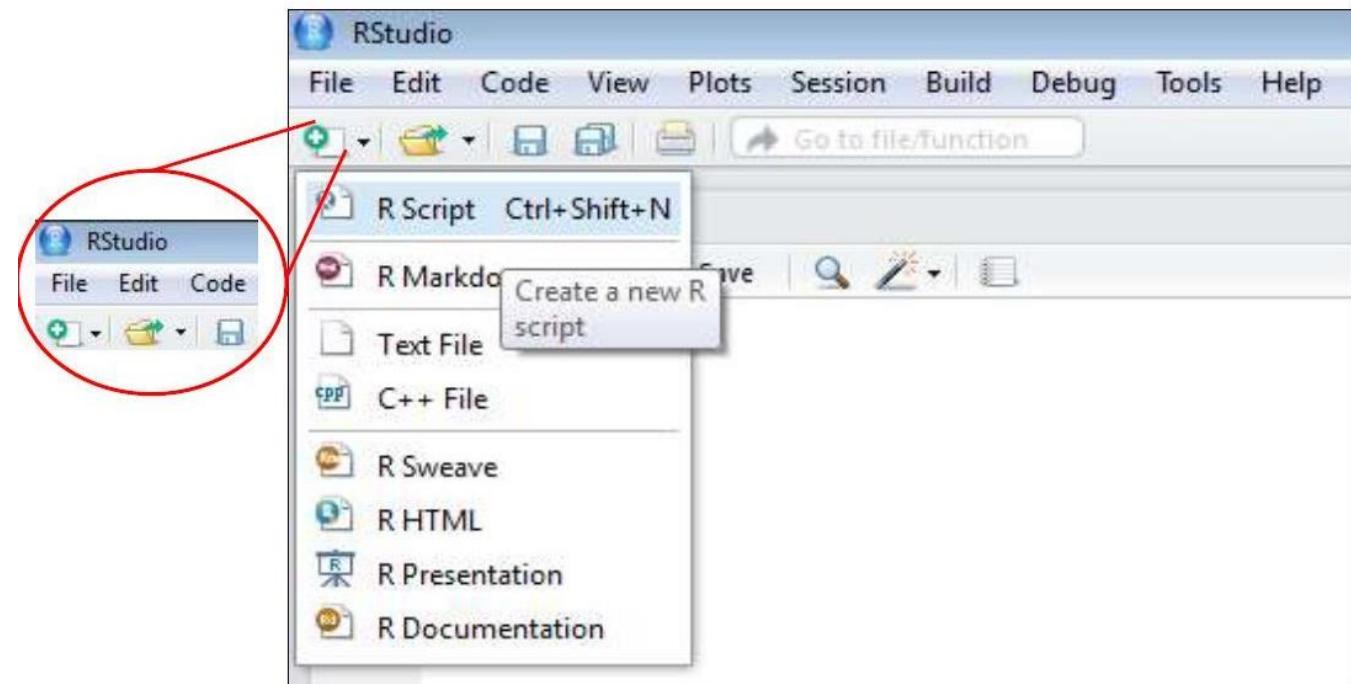
```
summary(cars)
```

```
##      speed          dist
## Min.   : 4.0   Min.   :  2.00
## 1st Qu.:12.0   1st Qu.: 26.00
## Median :15.0   Median : 36.00
## Mean    :15.4   Mean   : 42.98
## 3rd Qu.:19.0   3rd Qu.: 56.00
## Max.   :25.0   Max.   :120.00
```

Incluir em PDF

Etapa:

- Caso o PDF não funcione, rode o código num R Script
Atalho R Script → Ctrl + Shift + N



Checar mensagem de erro:

Rodar:

```
install.packages('tinytex')
tinytex::install_tinytex(version = 'latest')
```

SINTAXE (YAML, R, MARKDOWN)

Etapa:

- Resumindo as linguagens de códigos no R Markdown

CABEÇALHO

(YAML)

CHUNKS

(linguagem do chunk + R)

TEXTO

(markdown)

The diagram illustrates the structure of an R Markdown file. On the left, three sections are labeled: 'CABEÇALHO (YAML)', 'CHUNKS (linguagem do chunk + R)', and 'TEXTO (markdown)'. Blue arrows point from each of these labels to specific code blocks in a central window. The central window shows the 'Source' tab of an RStudio interface with the following YAML header:

```
1 ---  
2 title: "Aula sobre relatório em Rmarkdown"  
3 author: "Prof. Hernani Ramos"  
4 date: ``r Sys.Date()``  
5 output: html_document
```

Below the header, there is a code chunk setup:

```
9 `r`{r setup, include=FALSE}  
10 knitr:::opts_chunk$set(echo = TRUE)
```

Following the chunk setup, the document begins with a section header:

```
13 ## R Markdown
```

And then a paragraph of text:

```
15 This is an R Markdown document. Markdown is a simple  
16 MS Word documents. For more details on using R Markd  
17 When you click the **Knit** button a document will b  
the output of any embedded R code chunks within the
```

Etapa:

- Estudar o Relatório de saída (HTML)

The screenshot shows the RStudio interface with an R Markdown document open. The title of the document is "MÓDULO 5 - Relatórios Reprodutíveis com R Markdown". Below the title, the author is listed as "Prof. Hernani Ramos" and the date as "2025-09-17". A section titled "R Markdown" is present, followed by a paragraph explaining what Markdown is and where to find more details. A code chunk is shown at the bottom, demonstrating the use of the `summary` function on the `cars` dataset.

C:/Users/Administrador/Desktop/Disciplina Relatórios Reprodutíveis/exemplo-HTML.html

exemplo-HTML.html | Open in Browser | Find

MÓDULO 5 - Relatórios Reprodutíveis com R Markdown

Prof. Hernani Ramos
2025-09-17

R Markdown

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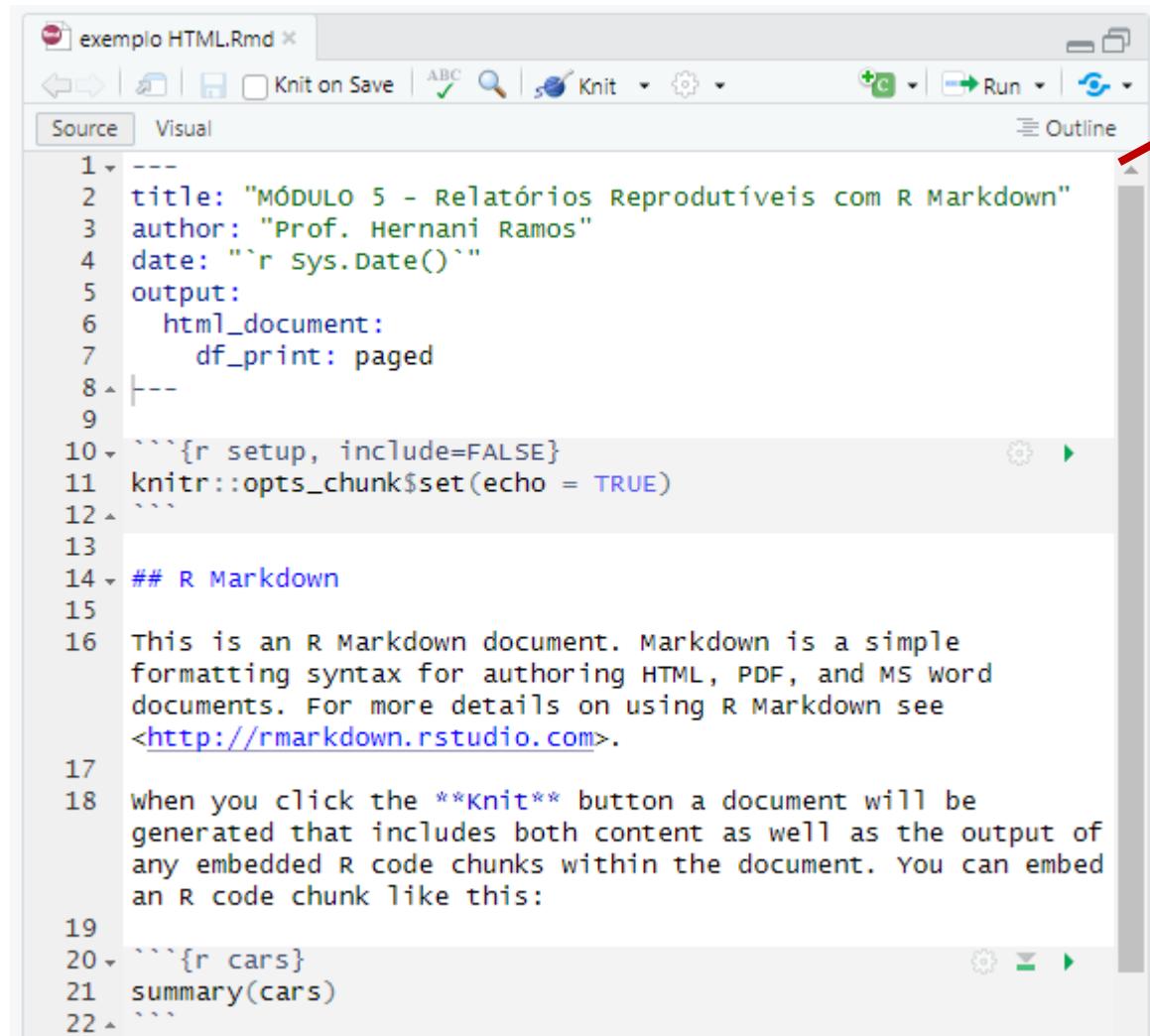
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
summary(cars)
```

```
##      speed      dist
## Min.   : 4.0   Min.   : 2.00
## Q1 : 12.0   Q1 : 10.00
## Median : 19.0   Median : 15.40
## Mean   : 24.3   Mean   : 20.89
## Q3   : 28.0   Q3   : 29.00
## Max.   : 50.0   Max.   : 45.90
```

Etapa:

- Comparar linguagem YAML com o relatório de saída



The screenshot shows the RStudio interface with two panes. The left pane, titled "exemplo HTML.Rmd", displays the R Markdown source code. The right pane shows the generated HTML output. A red arrow points from the YAML header in the Source pane to the title section in the HTML output.

```
1 ---  
2 title: "MÓDULO 5 - Relatórios Reprodutíveis com R Markdown"  
3 author: "Prof. Hernani Ramos"  
4 date: "`r Sys.Date()`"  
5 output:  
6   html_document:  
7     df_print: paged  
8 ---  
9  
10 ````{r setup, include=FALSE}  
11 knitr::opts_chunk$set(echo = TRUE)  
12 ````  
13  
14 ## R Markdown  
15  
16 This is an R Markdown document. Markdown is a simple  
formatting syntax for authoring HTML, PDF, and MS Word  
documents. For more details on using R Markdown see  
http://rmarkdown.rstudio.com.  
17  
18 when you click the **Knit** button a document will be  
generated that includes both content as well as the output of  
any embedded R code chunks within the document. You can embed  
an R code chunk like this:  
19  
20 ````{r cars}  
21 summary(cars)  
22 ````
```



The screenshot shows the generated HTML output in the RStudio browser tab. The page title is "Sem título - Paint". The content includes the YAML header, the title "MÓDULO 5 - Relatórios Reprodutíveis com R Markdown", the author "Prof. Hernani Ramos", the date "2025-09-17", and the R Markdown introduction. A red arrow points from the "R Markdown" section in the HTML output back to the "R Markdown" section in the source code.

MÓDULO 5 - Relatórios Reprodutíveis com R Markdown

Prof. Hernani Ramos

2025-09-17

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```
summary(cars)
```

	speed	dist	
## Min.	4.0	Min.	2.00
## 1st Qu.	12.0	1st Qu.	26.00
## Median	15.0	Median	36.00

Etapa:

- Comparar linguagem R com o relatório de saída

```
exemplo HTML.Rmd x
Source Visual
1 ---  
2 title: "MÓDULO 5 - Relatórios Reprodutíveis com R Markdown"  
3 author: "Prof. Hernani Ramos"  
4 date: "`r Sys.Date()`"  
5 output:  
6   html_document:  
7     df_print: paged  
8 ---  
9  
10 ````{r setup, include=FALSE}  
11 knitr::opts_chunk$set(echo = TRUE)  
12 ````  
13  
14 ## R Markdown  
15  
16 This is an R Markdown document. Markdown is a simple  
formatting syntax for authoring HTML, PDF, and MS Word  
documents. For more details on using R Markdown see  
http://rmarkdown.rstudio.com.  
17  
18 when you click the **Knit** button a document will be  
generated that includes both content as well as the output of  
any embedded R code chunks within the document. You can embed  
an R code chunk like this:  
19  
20 ````{r cars}  
21 summary(cars)  
22 ````
```

MÓDULO 5 - Relatórios Reprodutíveis com R Markdown

Prof. Hernani Ramos

2025-09-17

R Markdown

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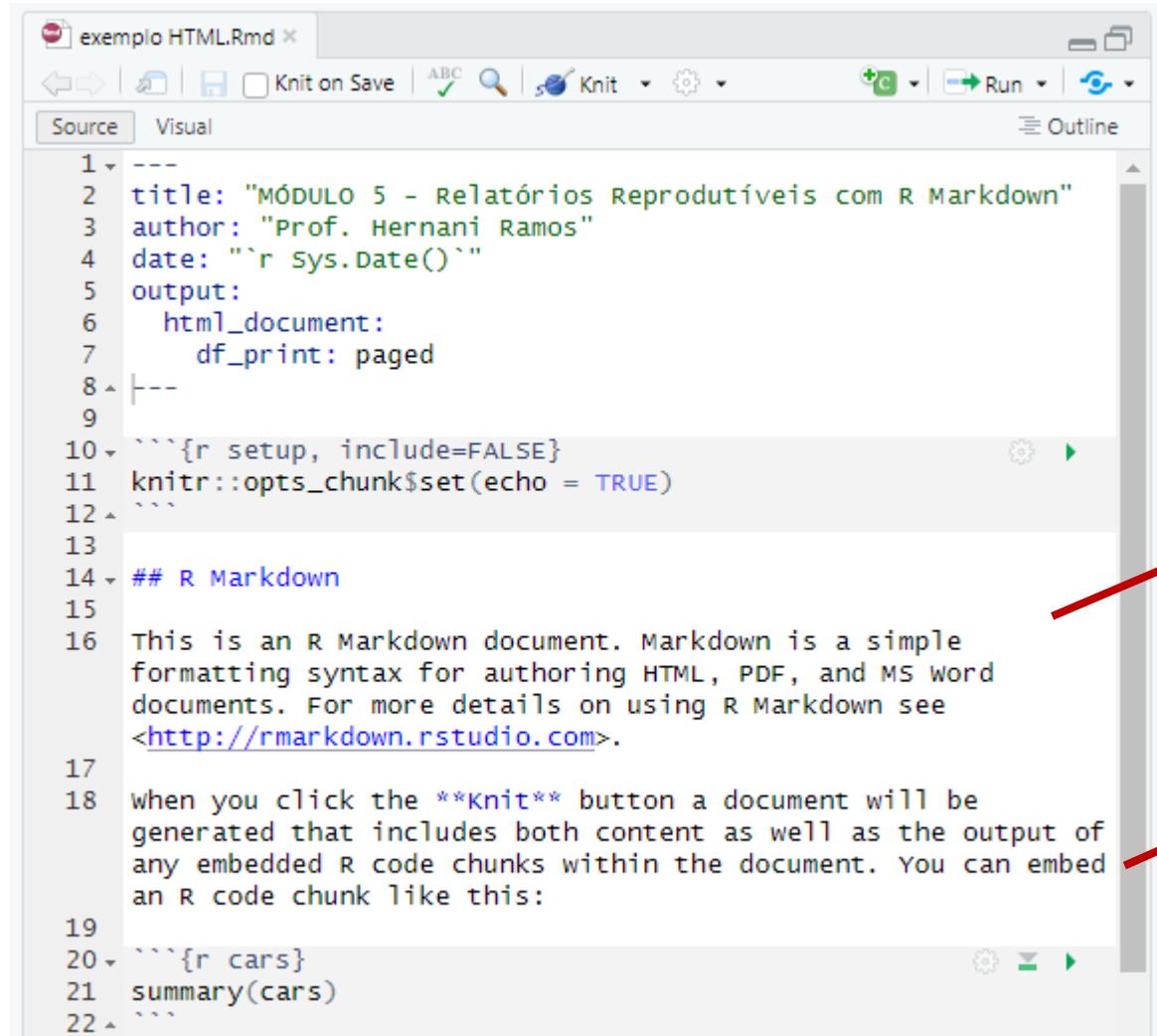
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
summary(cars)
```

	speed	dist
## Min.	4.0	2.00
## 1st Qu.	12.0	1st Qu.: 26.00
## Median	15.0	Median : 36.00

Etapa:

- Comparar linguagem MARKDOWN com o relatório de saída



```
1 ---  
2 title: "MÓDULO 5 - Relatórios Reprodutíveis com R Markdown"  
3 author: "Prof. Hernani Ramos"  
4 date: "`r Sys.Date()`"  
5 output:  
6   html_document:  
7     df_print: paged  
8 ---  
9  
10 ````{r setup, include=FALSE}  
11 knitr::opts_chunk$set(echo = TRUE)  
12 ````  
13  
14 ## R Markdown  
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16 This is an R Markdown document. Markdown is a simple  
formatting syntax for authoring HTML, PDF, and MS Word  
documents. For more details on using R Markdown see  
http://rmarkdown.rstudio.com.  
17  
18 when you click the **Knit** button a document will be  
generated that includes both content as well as the output of  
any embedded R code chunks within the document. You can embed  
an R code chunk like this:  
19  
20 ````{r cars}  
21 summary(cars)  
22 ````
```



MÓDULO 5 - Relatórios Reprodutíveis com R Markdown

Prof. Hernani Ramos

2025-09-17

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```
summary(cars)
```

	speed	dist	
## Min.	4.0	Min.	2.00
## 1st Qu.	12.0	1st Qu.	26.00
## Median	15.0	Median	36.00

Etapa:

- Comparar linguagem do chunk
(echo = T / echo = F)

```
17
18 when you click the **Knit** button a document will be
generated that includes both content as well as the output of
any embedded R code chunks within the document. You can embed
an R code chunk like this:
19
20 ```{r cars}
21 summary(cars)
22 ````
23
24 ## Including Plots
25
26 You can also embed plots, for example:
27
28 ```{r pressure, echo=FALSE}
29 plot(pressure)
30 ````
31
32 Note that the `echo = FALSE` parameter was added to the code
chunk to prevent printing of the R code that generated the
plot.
33
```

R C:/Users/Administrador/Desktop/Disciplina Relatórios Reprodutív... — □ X

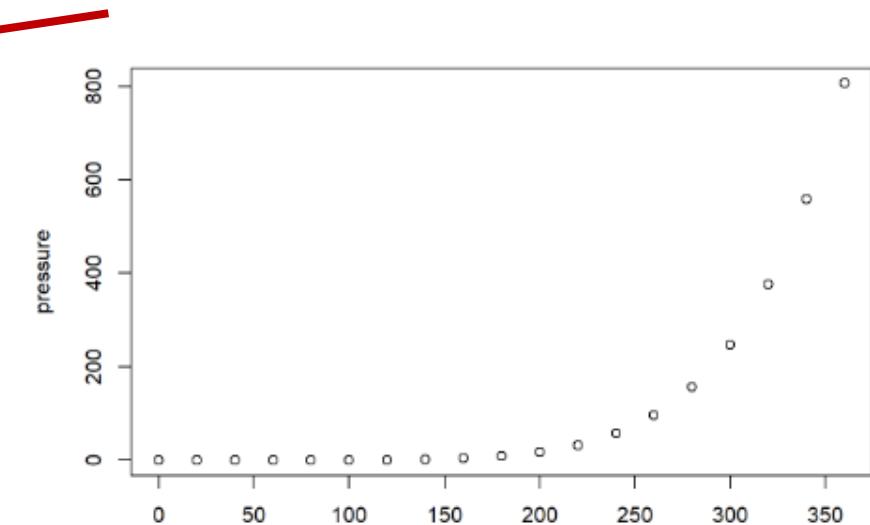
exemplo-HTML.html | Open in Browser | Find | Publish | C

```
summary(cars)
```

```
##      speed         dist
## Min.   : 4.0   Min.   : 2.00
## 1st Qu.:12.0   1st Qu.: 26.00
## Median :15.0   Median : 36.00
## Mean    :15.4   Mean   : 42.98
## 3rd Qu.:19.0   3rd Qu.: 56.00
## Max.   :25.0   Max.   :120.00
```

Including Plots

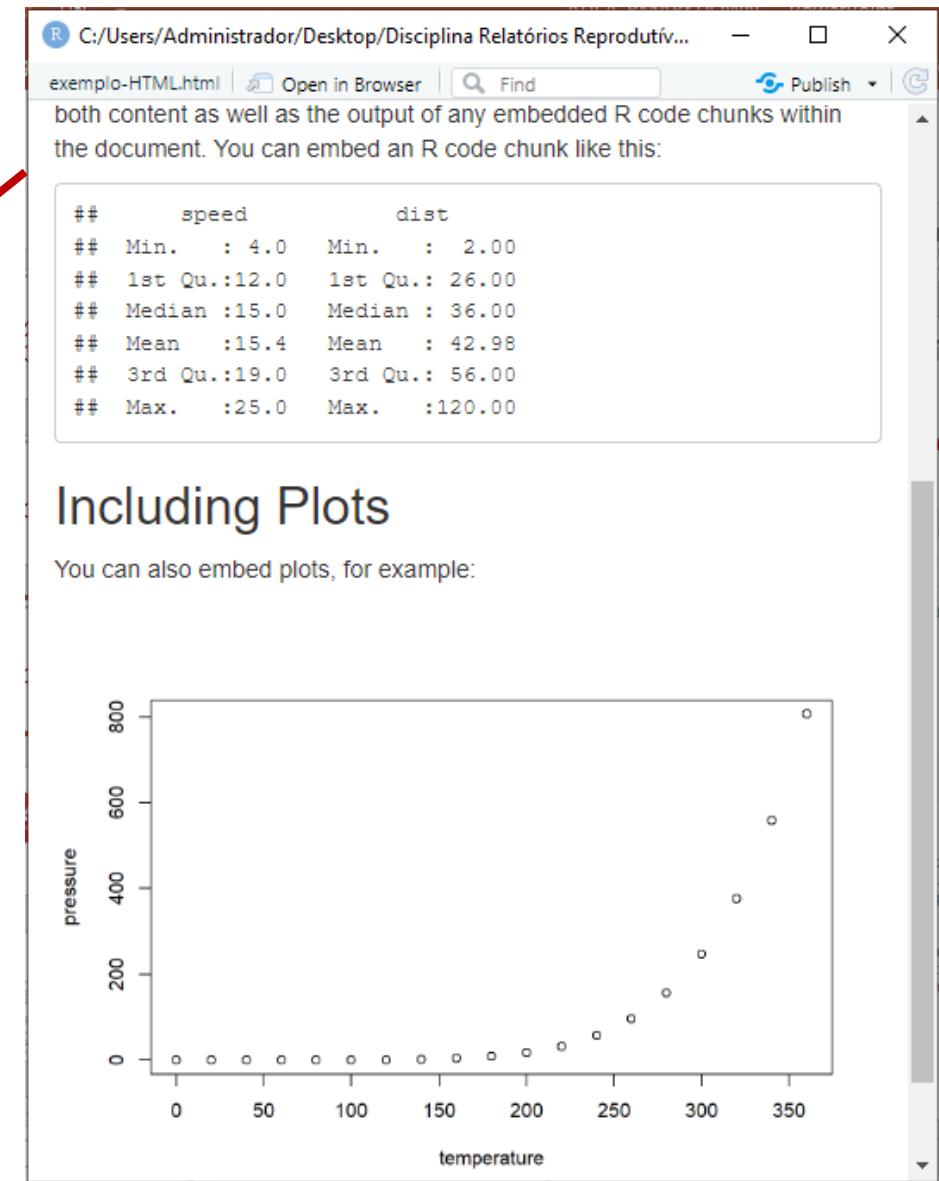
You can also embed plots, for example:



Etapa:

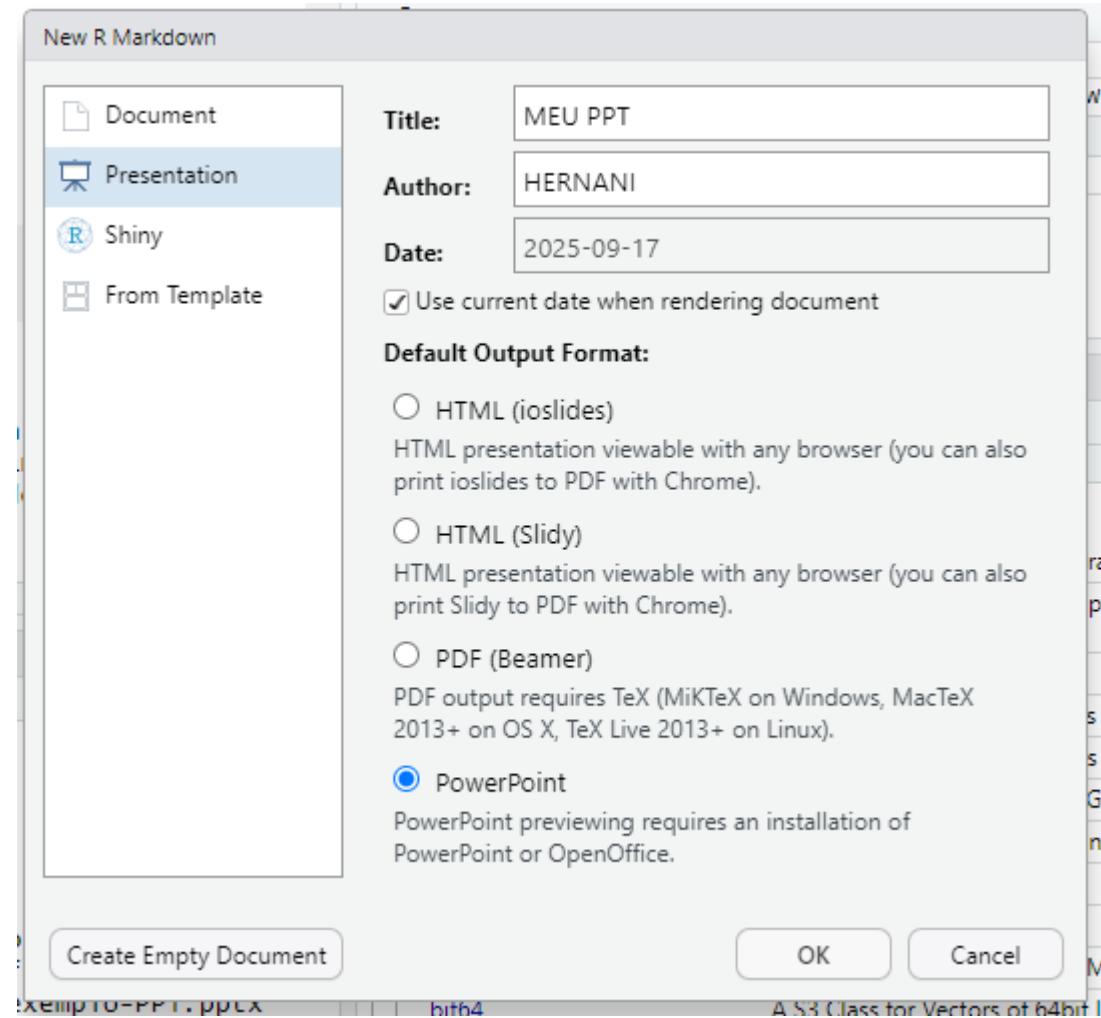
- Comparar linguagem do chunk
(echo = T / echo = F)

```
exemplo HTML.Rmd x
Source Visual
1 ---
2 title: "MÓDULO 5 - Relatórios Reprodutíveis com R Markdown"
3 author: "Prof. Hernani Ramos"
4 date: "`r Sys.Date()`"
5 output:
6   html_document:
7     df_print: paged
8 ---
9
10 ````{r setup, include=FALSE}
11 knitr::opts_chunk$set(echo = F)
12 ```
13
14 ## R Markdown
15
16 This is an R Markdown document. Markdown is a simple
```

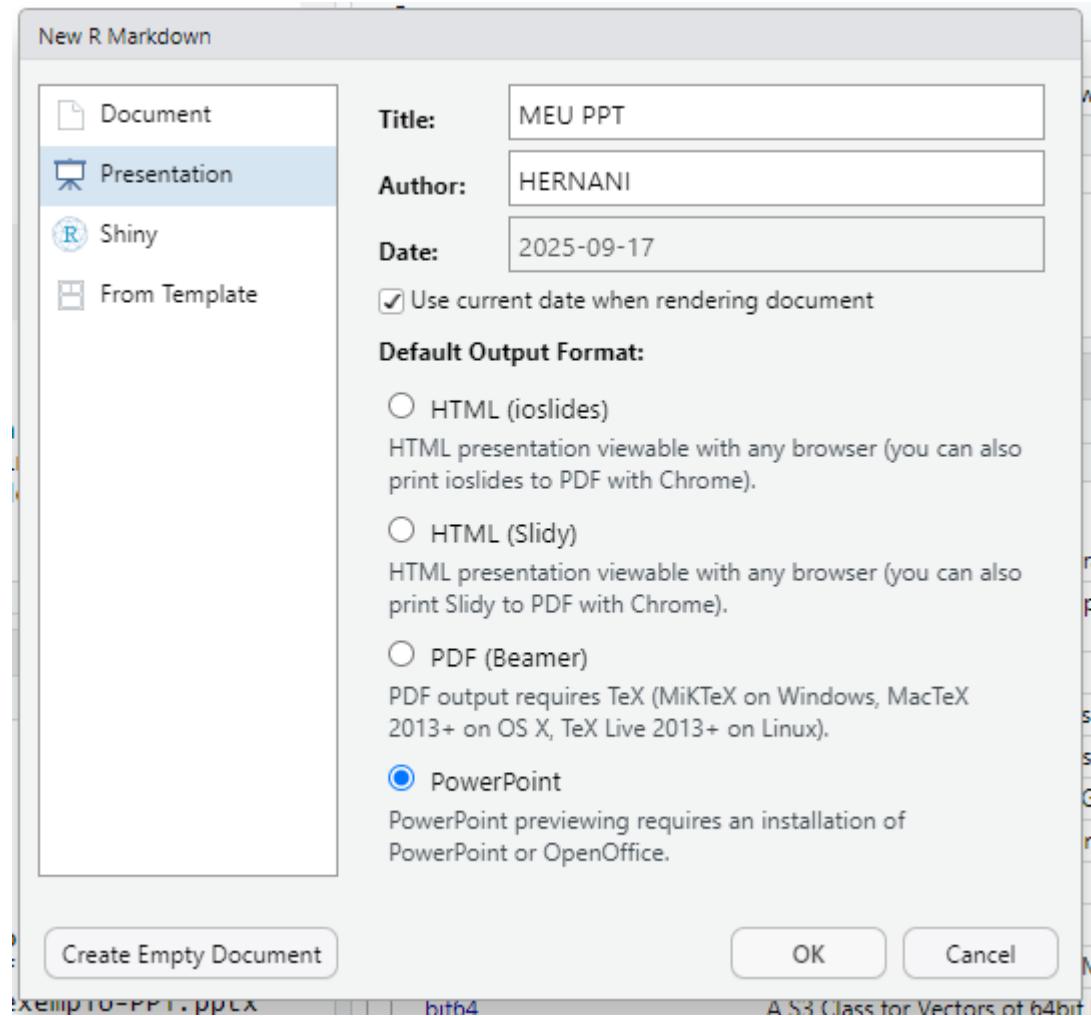


Etapa:

- MONTAR POWER POINT



Etapa: - IMPRESSÃO



MEU PPT

HERNANI

R Markdown

This is an R Markdown presentation. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document.

Slide with Bullets

- Bullet 1
- Bullet 2
- Bullet 3

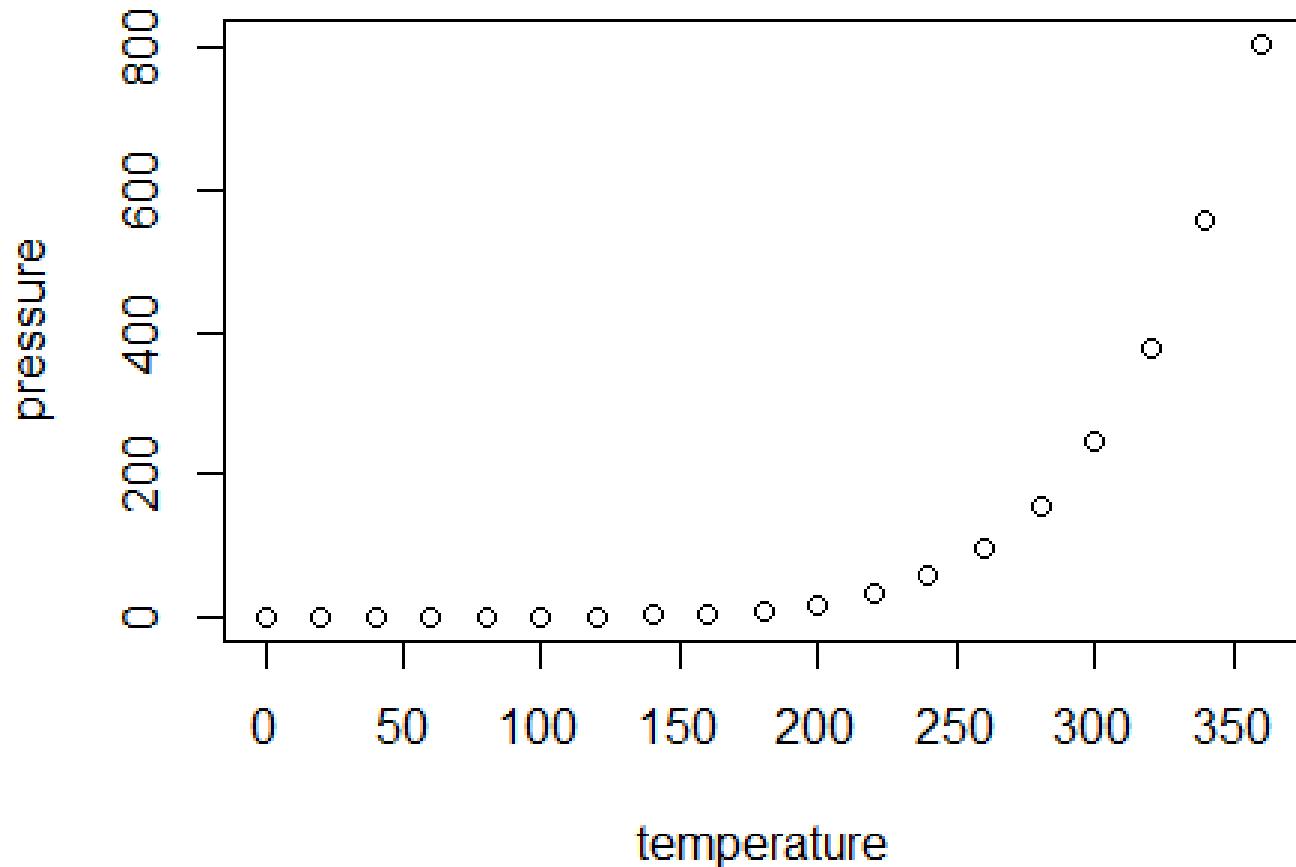
Slide with R Output

```
summary(cars)

##          speed              dist
##  Min.   : 4.0   Min.   : 2.00
##  1st Qu.:12.0   1st Qu.: 26.00
##  Median :15.0   Median : 36.00
##  Mean   :15.4   Mean   : 42.98
##  3rd Qu.:19.0   3rd Qu.: 56.00
##  Max.   :25.0   Max.   :120.00
```

Slide with Plot

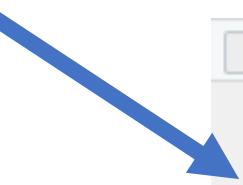
```
plot(pressure)
```



EXERCÍCIO – MONTAR O SEU RELATÓRIO

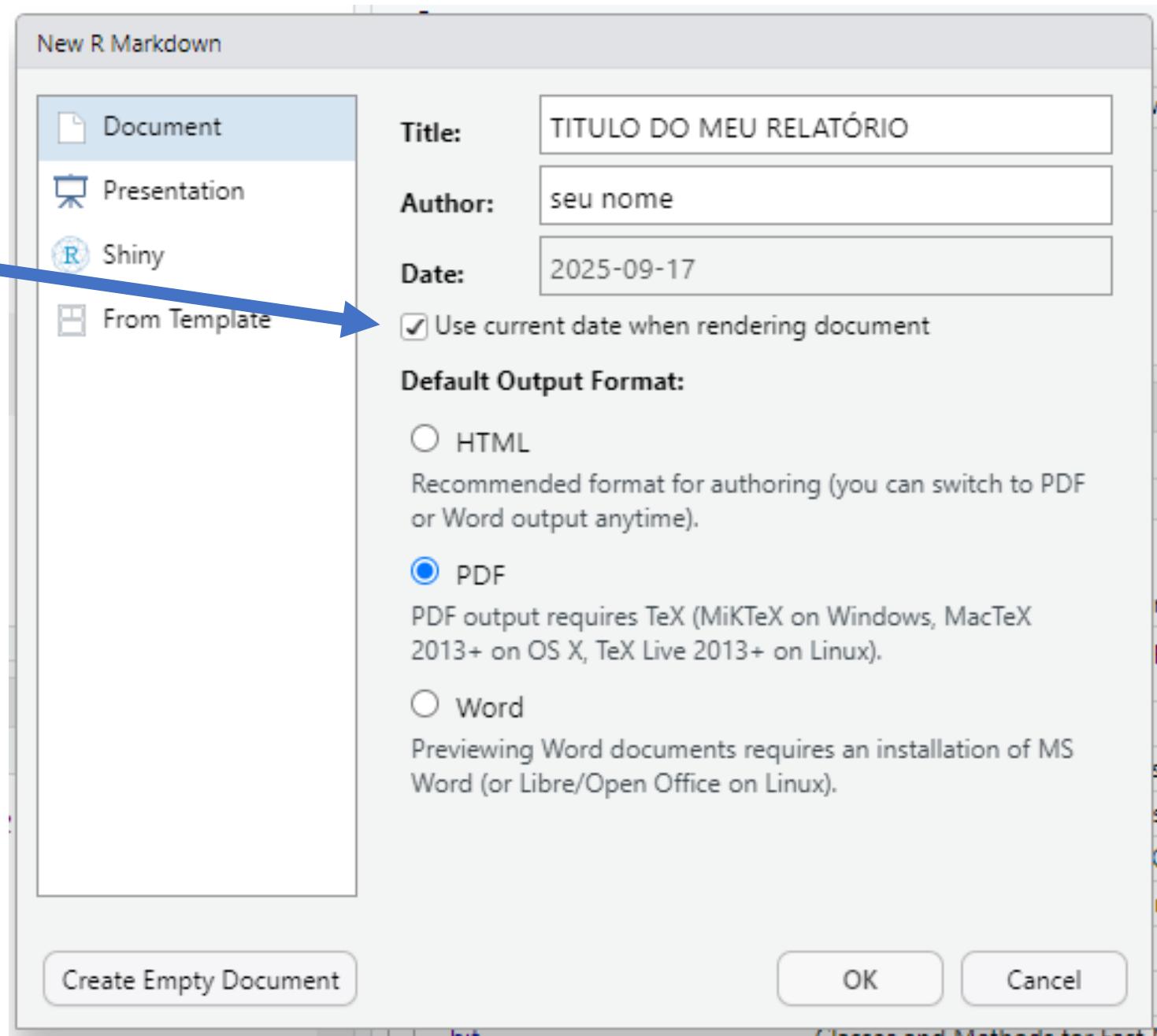
CABEÇALHO

(YAML)



```
Source Visual
1 ---  
2 title: "Aula sobre relatório em Rmarkdown"  
3 author: "Prof. Hernani Ramos"  
4 date: ``r Sys.Date()``  
5 output: html_document  
6  
7 ---  
8  
9 ```{r setup, include=FALSE}  
10 knitr::opts_chunk$set(echo = TRUE)  
11 ```  
12  
13 ## R Markdown  
14  
15 This is an R Markdown document. Markdown is a simple  
MS Word documents. For more details on using R Markd  
16  
17 When you click the **Knit** button a document will b  
the output of any embedded R code chunks within the
```

- TÍTULO
- AUTOR
- DATA
- FORMATO



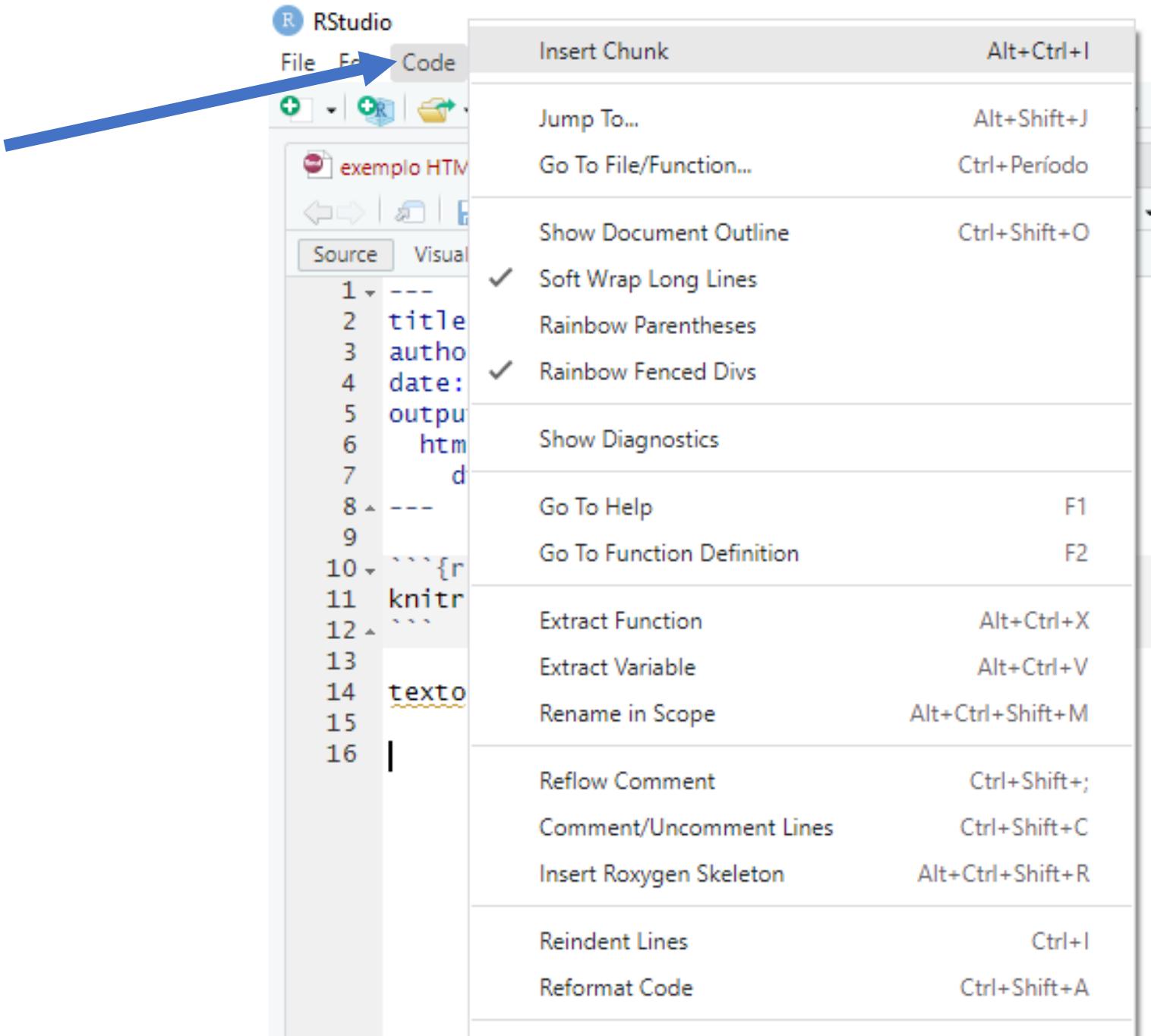
- Limpe o modelo

The screenshot shows the RStudio interface with the 'Source' tab selected. The code editor displays an R Markdown document. The code includes setup instructions, a title block, and several sections of R code. A large portion of the code is highlighted in blue, indicating it is part of the R Markdown syntax.

```
1 ---  
2 title: "TITULO DO MEU RELATÓRIO"  
3 author: "seu nome"  
4 date: "`r Sys.Date()`"  
5 output: pdf_document  
6 ---  
7  
8 ```{r setup, include=FALSE}  
9 knitr::opts_chunk$set(echo = TRUE)  
10 ````  
11  
12 ## R Markdown  
13  
14 This is an R Markdown document. Markdown is a simple  
formatting syntax for authoring HTML, PDF, and MS word  
documents. For more details on using R Markdown see  
http://rmarkdown.rstudio.com.  
15  
16 when you click the **knit** button a document will be  
generated that includes both content as well as the output of  
any embedded R code chunks within the document. You can embed  
an R code chunk like this:  
17  
18 ```{r cars}  
19 summary(cars)  
20 ````  
21  
22 ## Including Plots  
23  
24 You can also embed plots, for example:  
25  
26 ```{r pressure, echo=FALSE}  
27 plot(pressure)
```

- Inclua seções de texto
- Inclua seções de chunks

ATALHO:
incluir chunks com
Alt + Ctrl + I

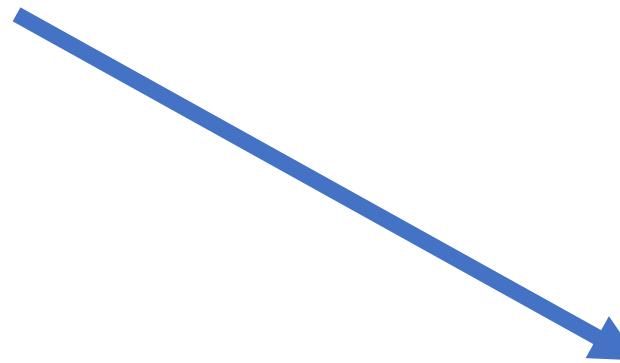


- Intercalar: seções de texto e chunks

texto
chunk

texto
chunk

texto
chunk



RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

exemplo HTML.Rmd* Untitled1

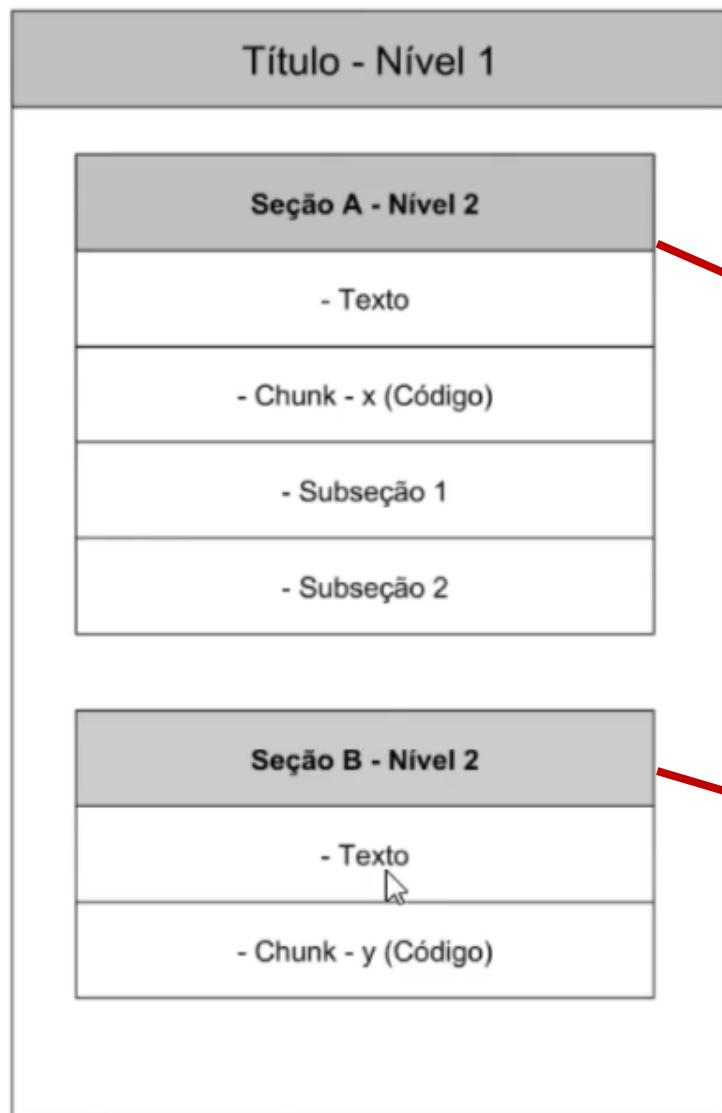
Knit on Save ABC Knit Run Outline

Source Visual

```
1 ---  
2 title: "MEU RELATÓRIO R MARKDOWN"  
3 author: "Nome do aluno"  
4 date: `r Sys.Date()`  
5 output:  
6   html_document:  
7     df_print: paged  
8 ---  
9  
10 ``{r setup, include=FALSE}  
11 knitr::opts_chunk$set(echo = T)  
12 ---  
13 | texto  
14 texto  
15 ``{r}  
16 ---  
17 | texto  
18 ``{r}  
19 | texto  
20 texto  
21 ``{r}  
22 ---  
23 | texto  
24 ``{r}  
25 | texto  
26 texto  
27 ``{r}  
28 ---  
29 |  
30 ---  
31  
32
```

13:1 (Top Level) R Markdown

ESTRUTURA DO DOCUMENTO



```
11
12 # TÍTULO - Nível 1
13
14 ## Seção A - Nível 2
15
16 texto
17
18 ````{r}
19 1+1
20 ``
21
22 ### subseção 1
23
24 ### subseção 2
25
26 ## Seção B - Nível 2
27
28 texto
29
30 ````{r}
31 2+2
32 ``
33
```

RStudio

File ID:52133237 Code View Plots Session Build Debug Profile Tools Help

Untitled4* teste.Rmd Untitled3*

Addins C:/Users/merce/Documentos/evento_aula2/teste.html

ID: 52133237 teste.html Open in Browser Find

details on using R Markdown see <<http://rmarkdown.rstudio.com>>

23 When you click the **Knit** button a document will be generated that includes both content as well as the output chunks within the document. You can embed

24

25

26 ````{r cars, comment='%%'}`

27 `summary(cars)`

28

29

30 ````{r}`

31 `plot(cars)`

32

33

28:4 R Markdown

Console Terminal Render Jobs

.../evento_aula2/teste.Rmd

Identificador, rótulo

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDFs and more. For details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output chunks within the document. You can embed an R code chunk like this:

```
summary(cars)
```

	speed	dist
Min.	4.0	2.00
1st Qu.	12.0	1st Qu.: 26.00
Median	15.0	Median : 36.00
Mean	15.4	Mean : 42.98
3rd Qu.	19.0	3rd Qu.: 56.00
Max.	25.0	Max. : 120.00

```
plot(cars)
```

motor

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

Untitled1 AULA-DE-R-MARKDOWN-HERNANI.Rmd AULA1.Rmd ambiente global.Rmd

Knit on Save ABC Knit Environment History Connections Tutorial Import Dataset 128 MiB List

```
1 ---  
2 title: "VARIÁVEIS DE AMBIENTE"  
3 author: "HERNANI"  
4 date: "`r sys.Date()`"  
5 output: html_document  
6 ---  
7  
8 ```{r setup, include=FALSE}  
9 knitr::opts_chunk$set(echo = TRUE)  
10 knitr::knit_global()  
11 nome <- "Hernani Ramos"  
12 ```  
13  
14  
15 ```{r ambiente_global}  
16 print(nome)  
17```
```

RStudio

C:/Users/Administrador/Desktop/CIB100653/ambiente-global.html

ambiente-global.html Open in Browser Find

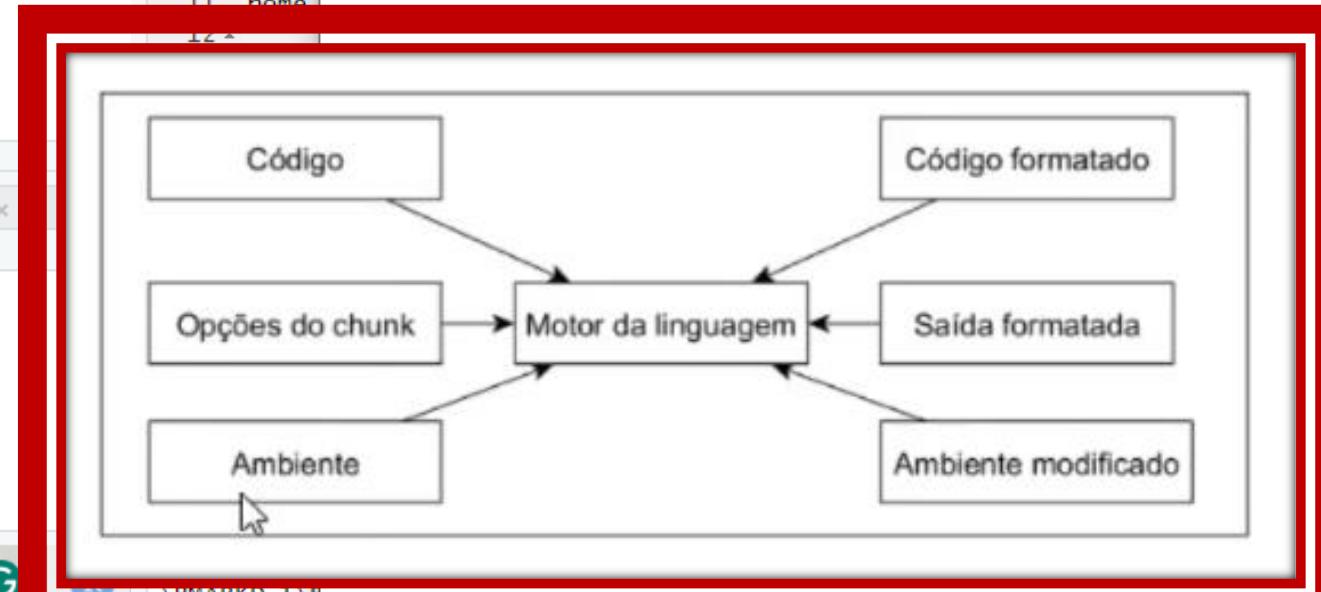
VARIÁVEIS DE AMBIENTE

HERNANI

2025-09-22

```
print(nome)
```

```
## [1] "Hernani Ramos"
```



```
11
12 `r código1`
13 # imagine aqui um código R extenso e pronto
14 ``
15
16 `r código2`
17 # imagine aqui outro código R extenso e pronto
18 ``
19
20 ## Subseção importante
21
22 com seu paragrafo, com explicações,
23 etc...
24
25 ## segunda subseção
26
27 `r código3`
28 # imagine aqui mais outro código R
29 # que vc esteja ainda trabalhando
30 1+1
31 ``
32
```

```
11
12 `r código1` ```
15
16 `r código2` ```
19
20 ## Subseção importante```
25
26 ## segunda subseção
27
28 Parei aqui..
29
30 `r código3`
31 # imagine aqui mais outro código R
32 # que vc esteja ainda trabalhando
33 1+1
34 ``
35
```

Códigos, ou textos prontos e resolvidos, pode manter fechado

```
14 # INTRODUÇÃO GERAL  
15  
16 Os cetáceos, que englobam baleias e golfinhos, são altamente adaptados à vida nos oceanos. A diversidade de espécies é notavelmente ampla e tem sido objeto de estudo e atenção por parte de pesquisadores e conservacionistas. Em todo o mundo, são reconhecidas aproximadamente 90 espécies de cetáceos, as quais são categorizadas em duas subordens distintas: os misticetos, caracterizados por suas barbatanas, e os odontocetos, que incluem baleias dentadas, como o cachalote e a orca, entre outras (CARWARDINE, 2019).  
17  
18  
19 ## OBJETIVO GERAL  
20  
21 O objetivo geral da tese é contribuir para a avaliação da mortalidade de cetáceos na região do Banco dos Abrolhos. Para alcançar esse objetivo, a pesquisa explora os princípios da investigação ecológica forense, concentrando-se nas três espécies que apresentam maior frequência de encalhes: a baleia-jubarte (Megaptera novaeangliae), o boto-cinzento (Sotalia guianensis) e a toninha (Pontoporia blainvilliei).  
22  
23 ### Objetivos Específicos  
24  
25 I) Apresentar uma revisão narrativa sobre “Ecologia Forense na Conservação da Megafauna Marinha”.  
26  
27 II) Estudar o tempo de óbito em relação aos estágios de decomposição em cetáceos de diferentes tamanhos.  
28  
29 III) Estudar a estimativa de mortalidade de toninhas usando a técnica de lançamento e recuperação de derivadores marcados em áreas de monitoramento sistemático.  
30
```

ABORDAGEM ECOLÓGICA-FORENSE - APLICAÇÕES NO ESTUDO SOBRE MORTALIDADE DE CETÁCEOS NA REGIÃO DO BANCO DE ABROLHOS, BRASIL

HERNANI

2025-09-22

INTRODUÇÃO GERAL

Os cetáceos, que englobam baleias e golfinhos, constituem um grupo diversificado de mamíferos marinhos altamente adaptados à vida nos oceanos (MANCIA, 2018). A diversidade de espécies é notavelmente ampla e tem sido objeto de estudo e atenção por parte de pesquisadores e conservacionistas. Em todo o mundo, são reconhecidas aproximadamente 90 espécies de cetáceos, as quais são categorizadas em duas subordens distintas: os misticetos, caracterizados por suas barbatanas, e os odontocetos, que incluem baleias dentadas, como o cachalote e a orca, além de todos os demais membros das famílias dos golfinhos (CARWARDINE, 2019).

OBJETIVO GERAL

O objetivo geral da tese é contribuir para a avaliação da mortalidade de cetáceos na região do Banco dos Abrolhos. Para alcançar esse objetivo, a pesquisa explora os princípios da investigação ecológica forense, concentrando-se nas três espécies que apresentam maior frequência de encalhes: a baleia-jubarte (*Megaptera novaeangliae*), o boto-cinzento (*Sotalia guianensis*) e a toninha (*Pontoporia blainvilliei*).

Objetivos Específicos

- I) Apresentar uma revisão narrativa sobre “Ecologia Forense na Conservação da Megafauna Marinha”.
- II) Estudar o tempo de óbito em relação aos estágios de decomposição em cetáceos de diferentes tamanhos.
- III) Estudar a estimativa de mortalidade de toninhas usando a técnica de lançamento e recuperação de derivadores marcados em áreas de monitoramento sistemático.
- IV) etc

```
1 ---
2 title: "ABORDAGEM ECOLÓGICA-FORENSE -| APLICAÇÕES NO
ESTUDO SOBRE MORTALIDADE DE CETÁCEOS NA REGIÃO DO
BANCO DE ABROLHOS, BRASIL"
3 "
4 author: "HERNANI"
5 date: ``r Sys.Date()``"
6 output:
7   pdf_document:
8     number_sections: true
9 ---
10
```

ABORDAGEM ECOLÓGICA-FORENSE - APLICAÇÕES NO ESTUDO SOBRE MORTALIDADE DE CETÁCEOS NA REGIÃO DO BANCO DE ABROLHOS, BRASIL

HERNANI

2025-09-22

1 INTRODUÇÃO GERAL

Os cetáceos, que englobam baleias e golfinhos, constituem um grupo diversificado de mamíferos marinhos altamente adaptados à vida nos oceanos (MANCIA, 2018). A diversidade de espécies é notavelmente ampla e tem sido objeto de estudo e atenção por parte de pesquisadores e conservacionistas. Em todo o mundo, são reconhecidas aproximadamente 90 espécies de cetáceos, as quais são categorizadas em duas subordens distintas: os misticetos, caracterizados por suas barbatanas, e os odontocetos, que incluem baleias dentadas, como o cachalote e a orca, além de todos os demais membros das famílias dos golfinhos (CARWARDINE, 2019).

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O objetivo geral da tese é contribuir para a avaliação da mortalidade de cetáceos na região do Banco dos Abrolhos. Para alcançar esse objetivo, a pesquisa explora os princípios da investigação ecológica forense, concentrando-se nas três espécies que apresentam maior frequência de encalhes: a baleia-jubarte (*Megaptera novaeangliae*), o boto-cinza (*Sotalia guianensis*) e a toninha (*Pontoporia blainvilliei*).

1.1.1 Objetivos Específicos

- I) Apresentar uma revisão narrativa sobre “Ecologia Forense na Conservação da Megafauna Marinha”.
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- III) Estudar a estimativa de mortalidade de toninhas usando a técnica de lançamento e recuperação de derivadores marcados em áreas de monitoramento sistemático.

Source Visual

```

1 ---  

2 title: "ABORDAGEM ECOLÓGICA-FORENSE -  

   APLICAÇÕES NO ESTUDO SOBRE MORTALIDADE DE  

   CETÁCEOS NA REGIÃO DO BANCO DE ABROLHOS,  

   BRASIL"  

3 author: "HERNANI"  

4 date: "`r sys.Date()`"  

5 output:  

6   html_document:  

7     df_print: paged  

8     number_sections: yes  

9   pdf_document:  

10    number_sections: yes  

11 ---  


```

yaml

```

output:
  html_document:
    df_print: paged
    number_sections: yes

```

 Copiar código

- `df_print: paged` → significa que os *data frames* serão mostrados em formato interativo, paginado, parecido com um *DataTable*.

- Se o *data frame* for muito grande, ele aparece dividido em páginas, com barra de navegação.
- Isso evita que um documento HTML fique enorme e pesado.

◆ Outros valores possíveis para `df_print` são:

- `default` → usa o método padrão (imprime tudo no documento, pode ficar longo).
- `kable` → formata as tabelas usando `knitr::kable()` (mais "limpo", sem interação).
- `paged` → o que você está usando, adiciona paginação interativa.
- `DT` (se usar o pacote `DT`) → gera tabelas ainda mais interativas (com busca, ordenação etc.).

R C:/Users/Administrador/Desktop/CIB100653/ambiente-global.html

ambiente-global.html | Open in Browser | Find

ABORDAGEM ECOLÓGICA-FOR APLICAÇÕES NO ESTUDO SOBRE MORTALIDADE DE CETÁCEOS NA BANCO DE ABROLHOS, BRASIL

HERNANI

2025-09-22

1 INTRODUÇÃO GERAL

Os cetáceos, que englobam baleias e golfinhos, constituem um grupo diversificado de mamíferos marinhos que habitam todos os oceanos (MANCIA, 2018). A diversidade de espécies é notavelmente ampla e tem sido objeto de estudo e conservação por muitos anos. Existem cerca de 90 espécies de cetáceos, divididas em subordens distintas: os misticetos, caracterizados por suas barbatanas, e os odontocetos, que incluem a orca, além de todos os demais membros das famílias dos golfinhos (CARWARDINE, 2019).

1.1 OBJETIVO GERAL

O objetivo geral da tese é contribuir para a avaliação da mortalidade de cetáceos na região do Banco de Abrolhos. A pesquisa explora os princípios da investigação ecológica forense, concentrando-se nas três principais espécies envolvidas nos encalhes: a baleia-jubarte (*Megaptera novaeangliae*), o boto-cinza (*Sotalia guianensis*) e a tocaia (*Tursiops truncatus*).

1.1.1 Objetivos Específicos

- I. Apresentar uma revisão narrativa sobre "Ecologia Forense na Conservação da Megafauna Marinha no Banco de Abrolhos".

```
11  
12 Texto entre asteriscos vira *itálico*.  
13  
14 Texto entre dois asteriscos vira **negrito**.  
15  
16 Texto entre tres asteriscos vira ***italico e negrito***.  
17  
18  
19 Tb funciona com underscore  
20  
21 Texto entre underscore vira itálico.  
22  
23 Texto entre dois underscore vira negrito.  
24  
25 Texto entre tres underscore vira italico e negrito.  
26 |
```

Texto entre asteriscos vira *itálico*.

Texto entre dois asteriscos vira **negrito**.

Texto entre tres asteriscos vira *italico e negrito*.

Tb funciona com underscore

Texto entre underscore vira *itálico*.

Texto entre dois underscore vira **negrito**.

Texto entre tres underscore vira *italico e negrito*.

26
27 o objetivo geral da tese é contribuir para a avaliação da
mortalidade de cetáceos na região do Banco dos Abrolhos. Para
alcançar esse objetivo, a pesquisa explora os princípios da
investigação ecológica forense, concentrando-se nas três
espécies que apresentam maior frequência de encalhes: a
baleia-jubarte (**Megaptera novaenagliae**), o boto-cinza
(**Sotalia guianensis**) e a toninha (**Pontoporia blainvilliei**).
28
29 > citação em bloco, exemplo de parágrafo.
30 >
31 > Segunda citação em bloco.
32 >
33 > Terceira citação em bloco.
34

O objetivo geral da tese é contribuir para a avaliação da mortalidade de cetáceos na Abrolhos. Para alcançar esse objetivo, a pesquisa explora os princípios da investigação concentrando-se nas três espécies que apresentam maior frequência de encalhes: a baleia-jubarte (*Megaptera novaenagliae*), o boto-cinza (*Sotalia guianensis*) e a toninha (*Pontoporia blainvilliei*).

Citação em bloco, exemplo de parágrafo.

Segunda citação em bloco.

Terceira citação em bloco.

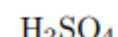
```
65 ### fórmulas
66
67 caracteres entre til = subescrito
68
69 H~2~O
70
71 H~2~50~4~
72
73 caracteres entre acentos circunflexos = subescrito
74
75 x^3^+3x^2^
76
77 equações menos elaboradas
78
79 $a^2=b^2+c^2$  

80
81 - entre cífrões não necessita de dois circunflexos.
82
83 - coloca tudo colado, sem espaços.
84
85 $A=\pi * r^2$  

86
87 ver rodapé1[olha como isso aparece no rodapé do documento...]
```

fórmulas

caracteres entre til = subescrito



caracteres entre acentos circunflexos = subescrito

$$x^3+3x^2$$

equações menos elaboradas

$$a^2 = b^2 + c^2$$

- entre cífrões não necessita de dois circunflexos.
- coloca tudo colado, sem espaços.

$$A = \pi * r^2$$

ver rodapé¹

¹olha como isso aparece no rodapé do documento...

```
93
94 ## tabela
95
96 Aluno(a) | E-mail | Nota
97 -----|-----|-----
98 Amanda | amandasabinia2102@gmail.com | 10
99 Iara | iaracamposc98.ic@gmail.com | 10
100 Isabelli | bellydomi78@gmail.com | 10
101 Lucas | lucaszordanbio@gmail.com | 10
102 Maria | toaquindi@gmail.com | 10
103 Regina | rgsilva.ppgecb@uesc.br | 10
104 Thays | thays.klisan@gmail.com | 10
105 Virginia | vihobb25@gmail.com | 10
106
107 table: Nome, contato e notas dos alunos.
108
```

Shift + \

Google pipe caracter X

Modo IA Tudo Imagens Shopping Vídeos Notícias Vídeos curtos Mais Ferramentas

Você quis dizer: pipe **caractere**

A barra vertical (pipe) é um caractere ASCII 124, simbolizado por uma barra vertical | ou uma barra vertical interrompida \|, pode ser facilmente criada com os botões shift esquerdo + barra inclinada para a esquerda (\) ou apertando e segurando ALT esquerdo e digitando 124 (Alt+124) no teclado numérico.

```

93
94 -### tabelas
95
96 Aluno(a) | E-mail | Nota
97 ----|-----|-----
98 Amanda | amandasabinia2102@gmail.com | 10
99 Iara | iaracamposc98.ic@gmail.com | 10
100 Isabelly | bellydomi78@gmail.com | 10
101 Lucas | lucaszordanbio@gmail.com | 10
102 Maria | toaquindi@gmail.com | 10
103 Regina | rgsilva.ppgecb@uesc.br | 10
104 Thays | thays.klisan@gmail.com | 10
105 Virgínia | vihobb25@gmail.com | 10
106
107 table: Nome, contato e notas dos alunos.
108

```

tabelas

Table 1: Nome, contato e notas dos alunos.

Aluno(a)	E-mail	Nota
Amanda	amandasabinia2102@gmail.com	10
Iara	iaracamposc98.ic@gmail.com	10
Isabelly	bellydomi78@gmail.com	10
Lucas	lucaszordanbio@gmail.com	10
Maria	toaquindi@gmail.com	10
Regina	rgsilva.ppgecb@uesc.br	10
Thays	thays.klisan@gmail.com	10
Virgínia	vihobb25@gmail.com	10

The screenshot shows the RStudio interface. The top bar includes icons for file operations, a 'Knit on Save' button, and search functions. Below the bar, tabs for 'Source' and 'Visual' are visible. The Source tab contains the following code:

```

1 ---  

2 title: "TABELAS"  

3 author: "HERNANI"  

4 date: "`r Sys.Date()`"  

5 output: pdf_document  

6 lang: pt-br  

7 ---  

8

```

tabelas

Tabela 1: Nome, contato e notas dos alunos.

Aluno(a)	E-mail	Nota
Amanda	amandasabinia2102@gmail.com	10
Iara	iaracamposc98.ic@gmail.com	10
Isabelly	bellydomi78@gmail.com	10
Lucas	lucaszordanbio@gmail.com	10
Maria	toaquindi@gmail.com	10
Regina	rgsilva.ppgecb@uesc.br	10
Thays	thays.klisan@gmail.com	10
Virgínia	vihobb25@gmail.com	10

```
119  
120 ~~~{r, echo=FALSE}  
121 knitr::kable(airquality[1:5,1:5], col.names =  
  c("Ozônio", "Rad. Solar", "Vel. Vento", "Températura", "Mês"),  
  caption = "Qualidade do Ar", align = "c") # lcccr  
122  
123 ~~~  
124  
125
```

titulo

Ctrl + Alt + i

- Pede no console: airquality
- Recorta primeiras 5 linhas e primeiras 5 colunas.

Tabela 2: Qualidade do Ar

Ozônio	Rad.Solar	Vel. Vento	Températura	Mês
41	190	7.4	67	5
36	118	8.0	72	5
12	149	12.6	74	5
18	313	11.5	62	5
NA	NA	14.3	56	5

Nomeia variáveis

esq,cen,cen,cen,dir

centralizado

```
14 ## AULA SOBRE CÓDIGOS  
15  
16 Existem duas formas de inserir códigos no RMD.  
17  
18 ### Exemplo de como inserir códigos em linha.  
19  
20 - A raiz quadrada de 9 = `r sqrt(9)`!  
21  
22 - A raiz quadrada de 9 = `r x=9; sqrt(x)`!!  
23  
24 - Data: `r sys.Date()`  
25
```

lista

Data do sistema

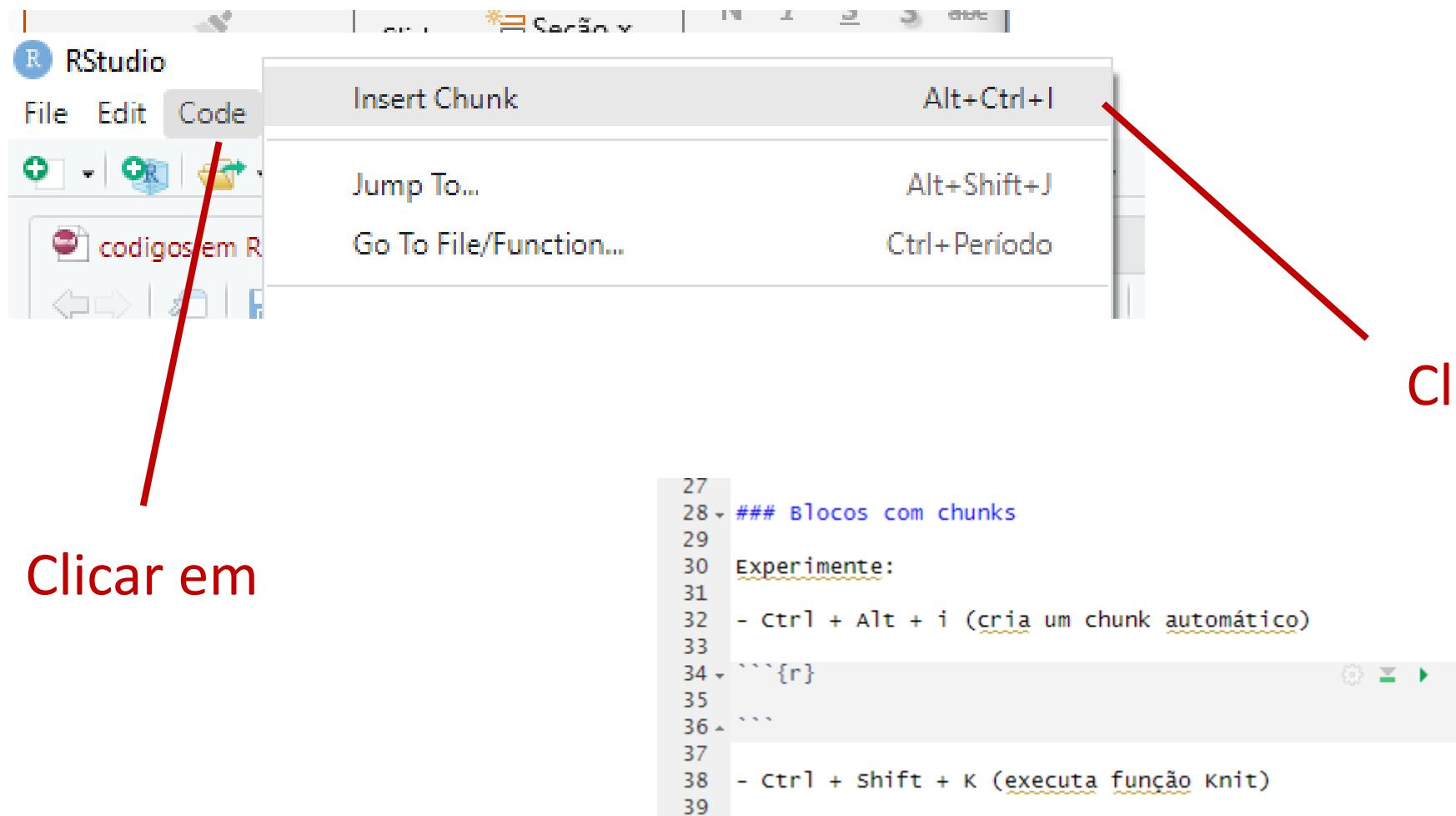
codigo R no meio do texto

AULA SOBRE CÓDIGOS

Existem duas formas de inserir códigos no RMD.

Exemplo de como inserir códigos em linha.

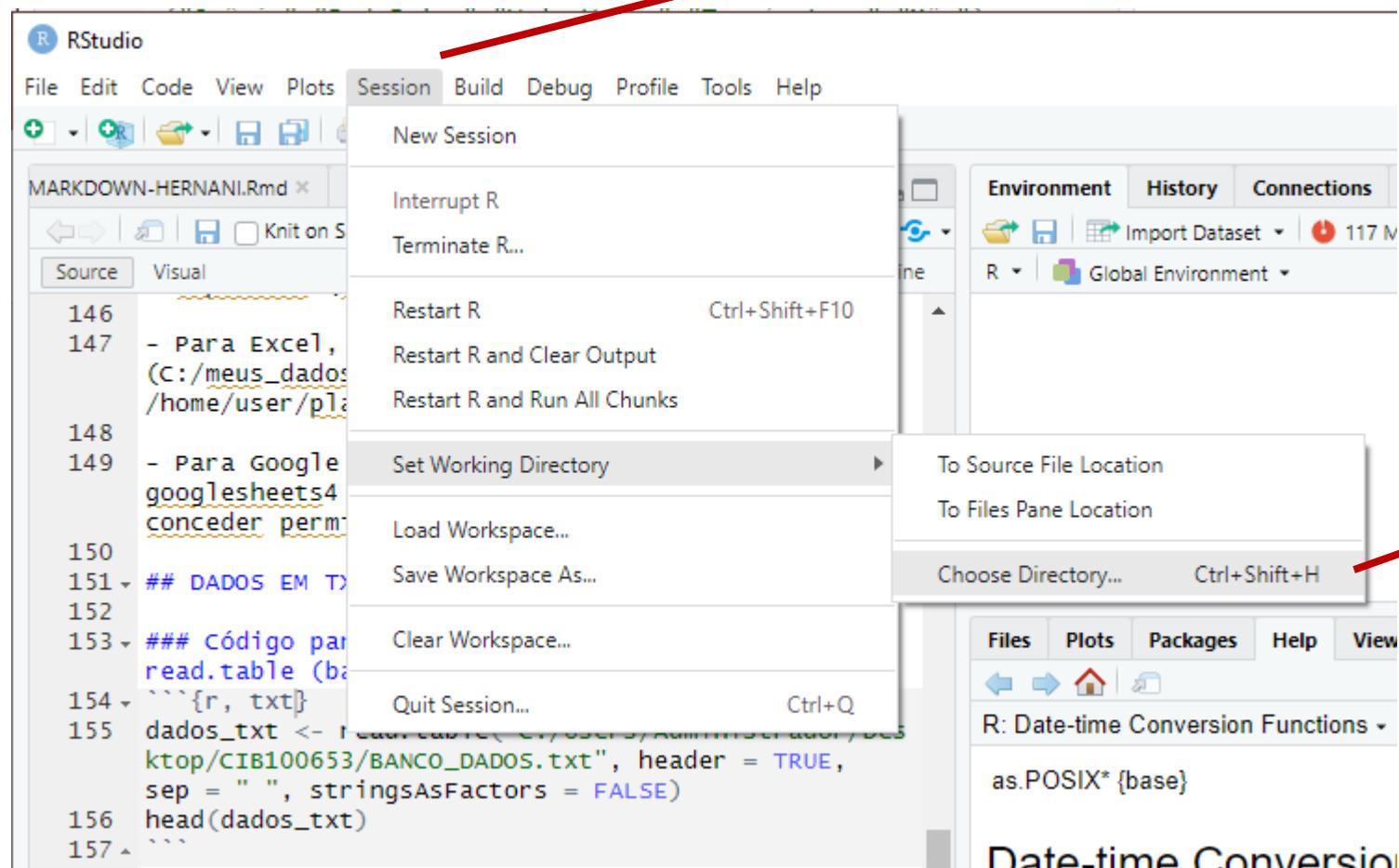
- A raiz quadrada de 9 = 3!
- A raiz quadrada de 9 = 3!!
- Data: 2025-09-23



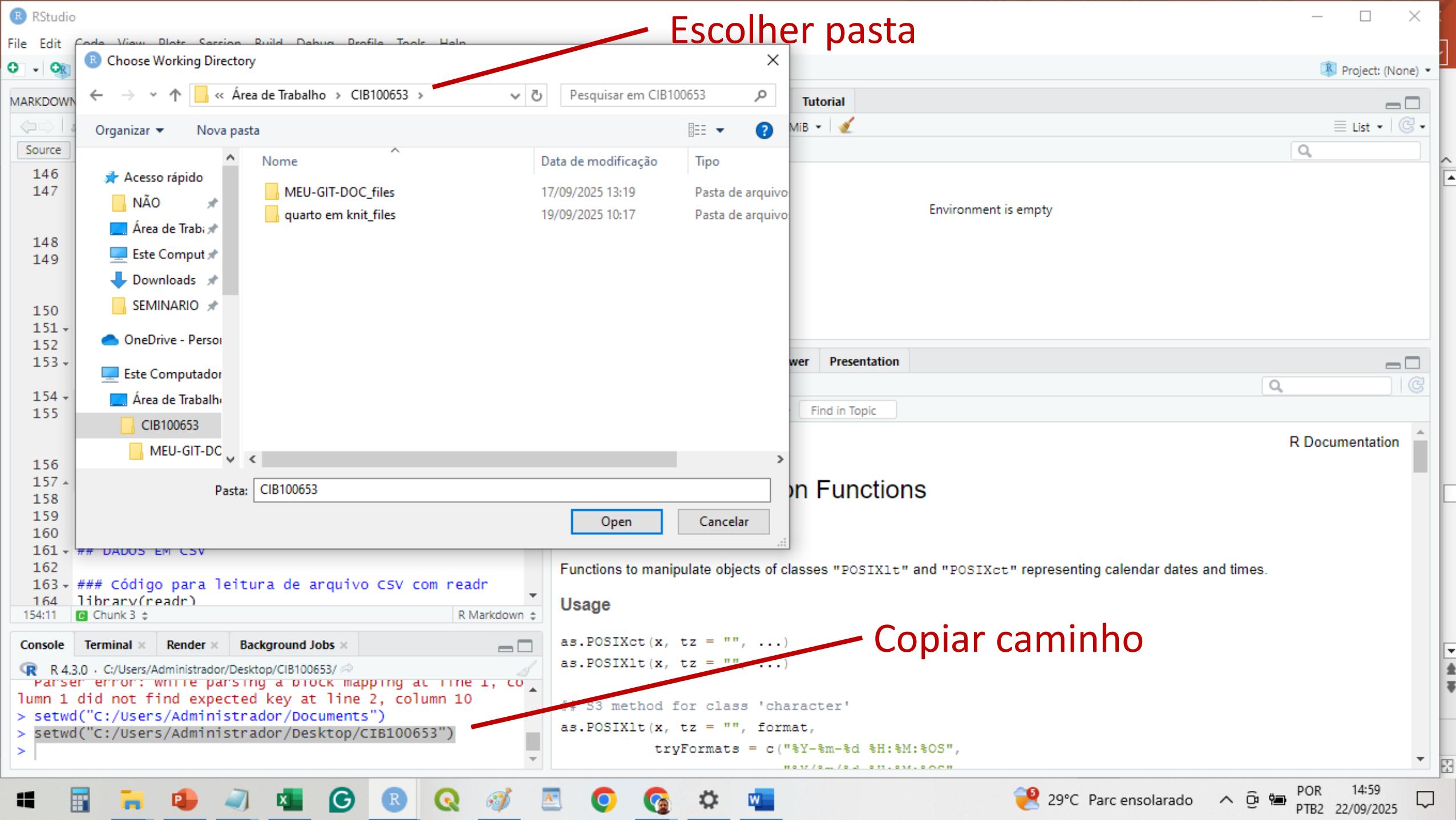
Clicar em (tecla atalho)

Clicar em

Clicar em



Clicar em



Escolher pasta

Copiar caminho

Colar e
Conectar pasta

DADOS EM TXT

Código para leitura de arquivo TXT com read.table (base R)

```
setwd("C:/Users/Administrador/Desktop/CIB100653")  
  
dados_txt <- read.table("C:/Users/Administrador/Desktop/CIB100653/BANCO_DADOS.txt",  
                         header = TRUE,  
                         sep = ";")  
  
head(dados_txt)
```

```
##      PPG NIVEL      N SEXO          PAIS NASCIMENTO IDADE  IDIOMA1 DOCENTE  
## 1 PPGCA  DOC 23107    M     Peru 27/08/1991    34 Espanhol     NO  
## 2 PPGCA  DOC 22865    M   Nigeria 27/05/1985    40   Inglês     NO  
## 3 PPGCA  DOC 22555    M Mozambique 23/10/1991    34 Português    YES  
## 4 PPGCA  DOC 22103    M    Haiti 10/01/1973    53 Francês     YES  
## 5 PPGCA  DOC 21293    M    Angola 14/11/1998    27   Inglês     NO  
## 6 PPGCA  DOC 21165    M Mozambique 16/02/2000    26 Português    NO  
##      INSTITUICAO PRIMEIRA_VEZ TENTATIVAS  
## 1     Publica       Sim      0  
## 2     Outros        Sim      0  
## 3     Publica      <NA>      0  
## 4     Privada       Sim      0  
## 5     Outros        Sim      0  
## 6     Publica       Sim      0
```

```
9  
10 ``{r setup, include=FALSE}  
11 knitr::opts_chunk$set(  
12   echo = TRUE,  
13   tidy = TRUE, # organiza o código  
14   tidy.opts = list(width.cutoff = 60) # quebra  
15   linhas de código longas  
16 }  
17  
18 ````
```

Permite a tabela
encaixar na pagina

DADOS EM EXCEL

Código para leitura de planilha Excel com readxl

```
library(readxl)  
  
## Warning: package 'readxl' was built under R version 4.3.3  
  
setwd("C:/Users/Administrador/Desktop/CIB100653")  
  
dados_excel <- read_excel(  
  "C:/Users/Administrador/Desktop/CIB100653/BANCO_DADOS.xlsx",  
  sheet = "Planilha1"  
)  
  
# Para impressão no PDF sem estourar a página:  
library(kableExtra)  
  
## Warning: package 'kableExtra' was built under R version 4.3.3  
  
knitr::kable(head(dados_excel), format = "latex", booktabs = TRUE) %>%  
  kable_styling(latex_options = "scale_down")
```

PPG	NIVEL	N	SEXO	PAÍS	NASCIMENTO	IDADE	IDIOMA1	DOCENTE	INSTITUICAO	PRIMEIRA_VEZ	TENTATIVAS
PPGCA	DOC	23107	M	Peru	33677	34	Espanhol	NO	Pública	Sim	0
PPGCA	DOC	22865	M	Nigéria	31194	46	Inglês	NO	Outros	Sim	0
PPGCA	DOC	22553	M	Moambique	33534	34	Português	YES	Pública	NA	0
PPGCA	DOC	22103	M	Haiti	26674	53	Françês	YES	Privada	Sim	0
PPGCA	DOC	21293	M	Angola	36113	27	Inglês	NO	Outros	Sim	0
PPGCA	DOC	21165	M	Moambique	36572	26	Português	NO	Pública	Sim	0

```
13
14 - ````{r}
15 library(googlesheets4)
16
17 # Desativa autenticação, só funciona se a planilha
18 # for pública
19 gs4_deauth()
20
21 url_planilha <-
22 "https://docs.google.com/spreadsheets/d/1PmHZ3AQ_ELM
23 iIHQuhlU1cJyjDGq2hzP2jzaNy9go2Kw/edit?usp=drive_link
24 "
25
26 dados <- read_sheet(url_planilha, sheet =
27 "Planilha1")
28 head(dados)
29
30
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94
95
96
97
98
99
100
```

Caminho para banco de dados em planilha google

HERNANI

2025-09-22

```
library(googlesheets4)

## Warning: package 'googlesheets4' was built under R version 4.3.3

# Desativa autenticação, só funciona se a planilha for pública
gs4_deauth()

url_planilha <- "https://docs.google.com/spreadsheets/d/1PmHZ3AQ_ELMiIHQuhlU1cJyjDGq2hzP2jzaNy9go2Kw/ed

dados <- read_sheet(url_planilha, sheet = "Planilha1")

## v Reading from "BANCO_DADOS".

## v Range "'Planilha1'".

head(dados)

## # A tibble: 6 × 12
##   PPGCA NIVEL    N SEXO PAIS      NASCIMENTO IDADE IDIOMA1 DOCENTE INSTITUICAO
##   <chr>  <chr>  <dbl> <chr> <chr>    <list>   <lis> <chr>  <chr>  <chr>
## 1 PPGCA DOC    23107 M   Peru     <dttm [1]> <dbl> Espanh- NO   Pública
## 2 PPGCA DOC    22865 M   Nigeria  <dttm [1]> <dbl> Inglês NO   Outros 
## 3 PPGCA DOC    22555 M   Mozambiq- <dttm [1]> <dbl> Portug- YES  Pública
## 4 PPGCA DOC    22103 M   Haiti    <dttm [1]> <dbl> FrancêS YES  Privada
## 5 PPGCA DOC    21293 M   Angola   <dttm [1]> <dbl> Inglês NO   Outros 
## 6 PPGCA DOC    21165 M   Mozambiq- <dttm [1]> <dbl> Portug- NO   Pública
## # i 2 more variables: PRIMEIRA_VEZ <chr>, TENTATIVAS <dbl>
```

```
34 ````{r}
35 # Load necessary packages
36 library(readxl) # For reading Excel files
37 library(ggplot2) # For data visualization (if needed)
38
39
40 # Define the path to your data file
41 data_file <- "C:/Users/Administrador/Desktop/CIB100653/BANCO_DADOS.xlsx"
42
43 # Read the data from the 'DADOS' and 'coo' sheets
44 dados <- read_excel(data_file, sheet = "DADOS")
45
46 # Display a summary of the data
47 summary(dados)
48 ````
```

Conecta Excel e faz Sumário dos dados

```
49  
50 - ### SEGUNDA PLANILHA (PRIMEIRAS LINHAS)  
51  
52 - ````{r}  
53 # Read the data from the 'DADOS' and 'coo' sheets  
54 coo <- read_excel(data_file, sheet = "coo")  
55  
56 # Display a summary of the data  
57 head(coo)  
58 ````
```

Conecta segunda planilha para outro objeto

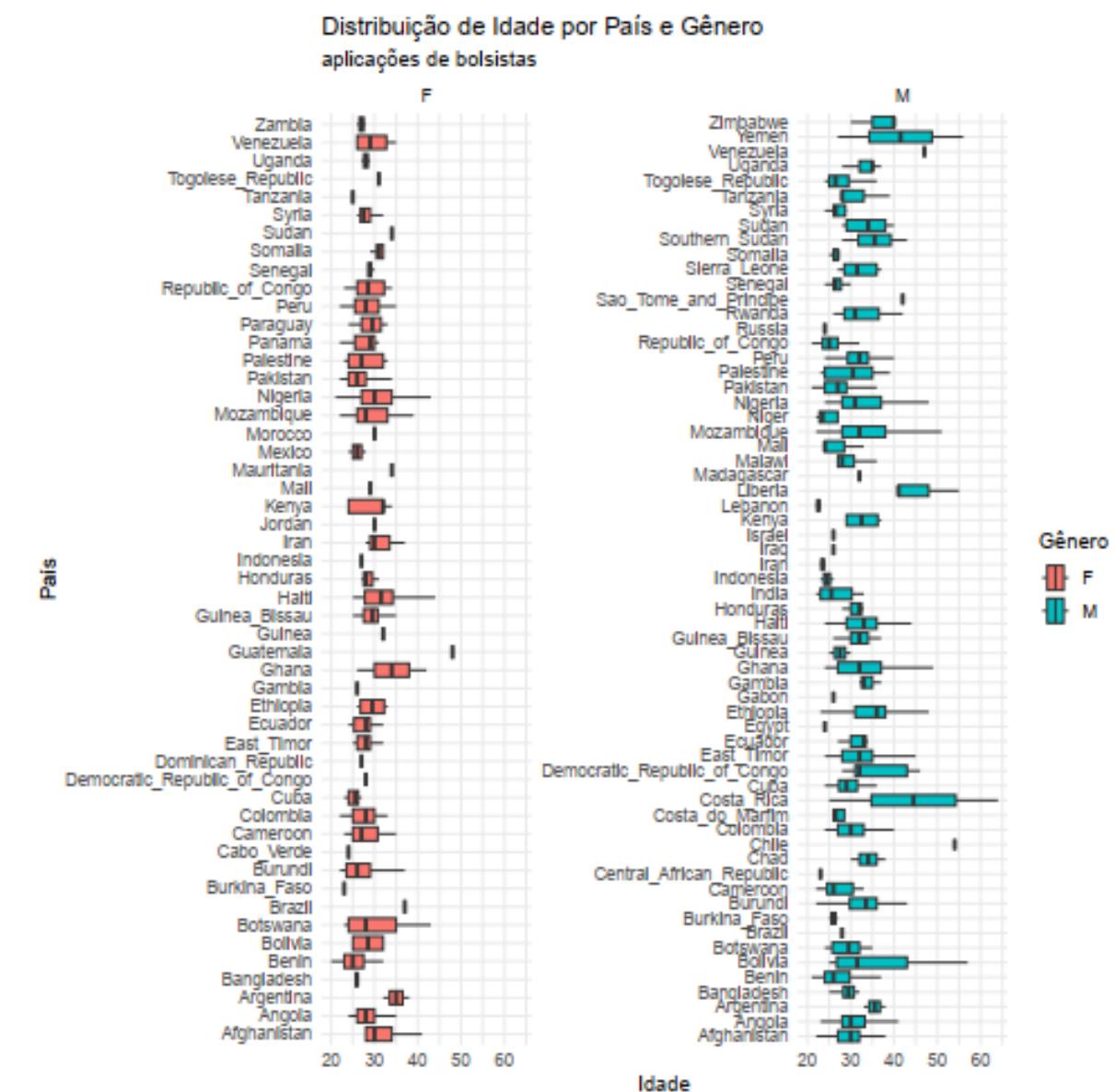
SEGUNDA PLANILHA (PRIMEIRAS LINHAS)

```
# Read the data from the 'DADOS' and 'COO' sheets  
coo <- read_excel(data_file, sheet = "COO")  
  
# Display a summary of the data  
head(coo)
```

```
## # A tibble: 6 × 4  
##   PAIS          CAPITAL      LONG     LAT  
##   <chr>        <chr>       <dbl>    <dbl>  
## 1 Afghanistan Kabul      69.2     34.6  
## 2 Angola       Luanda     13.2    -8.84  
## 3 Argentina    Buenos_Aires -58.4    -34.6  
## 4 Bangladesh   Dhaka      90.4     23.8  
## 5 Benin        Porto-Novo  2.63     6.50  
## 6 Bolivia      Sucre     -65.3    -19.0
```

```

59
60 ~`{r, fig.height = 8, fig.width = 8}
61 ggplot(dados, aes(x = IDADE, y = PAIS, fill = SEXO)) +
62   geom_boxplot(outlier.shape = NA) +
63   facet_wrap(~ SEXO, scales = "free_y") +
64   labs(
65     title = "Distribuição de Idade por País e Gênero",
66     subtitle = "aplicações de bolsistas",
67     x = "Idade",
68     y = "País",
69     fill = "Gênero") +
70   theme_minimal()
71 ~`}
```

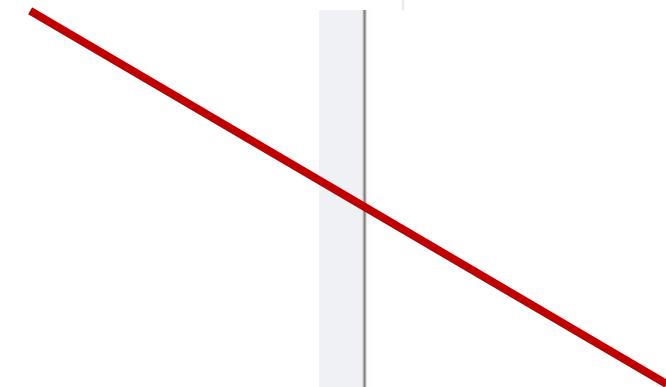


```
teste_t <- t.test(IDADE ~ NIVEL, data = dados,
                    alternative = "greater",
                    subset = NIVEL %in% c("MEST", "DOC"))
print(teste_t)
```

```
##  
## Welch Two Sample t-test  
##  
## data: IDADE by NIVEL  
## t = 11.431, df = 622.66, p-value < 2.2e-16  
## alternative hypothesis: true difference in means between group DOC and group MEST is greater than 0  
## 95 percent confidence interval:  
##  3.382133      Inf  
## sample estimates:  
## mean in group DOC mean in group MEST  
##             34.02506            30.07349
```

Hipótese verdadeira
Diferença na idade

```
13  
14 ! [Figura 1. Leão com 50%] (C:/Users/Administrador/Desktop/CIB100653/lion.png) {width=50%}  
15 ! [Figura 2. Leão com 25%] (C:/Users/Administrador/Desktop/CIB100653/lion.png) {width=25%}  
16 ! [Figura 3. Leão com 10%] (C:/Users/Administrador/Desktop/CIB100653/lion.png) {width=10%}  
17 ! [Figura 4. Leão com 5%] (C:/Users/Administrador/Desktop/CIB100653/lion.png) {width=5%}  
18 ! [Figura 5. Leão com 1%] (C:/Users/Administrador/Desktop/CIB100653/lion.png) {width=1%}  
19
```



HERNANI

2025-09-23



Figure 1: Figura 2. Leão com 25%

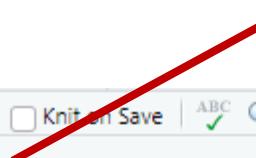


Figure 2: Figura 3. Leão com 10%



Figure 3: Figura 4. Leão com 5%

```
21  
22 ````{r, out.width="50%", fig.align='left', fig.cap="Meu Leão com 50%"}  
23  
24 knitr::include_graphics(path =  
  "C:/Users/Administrador/Desktop/CIB100653/lion.png")  
25  
26 ````
```



```
13  
14 texto Switch markdown editing mode (Ctrl+Shift+F4)  
15  
16 texto aqui xuna xuna  
17  
18 texto aqui xuna xuna  
19  
20 texto aqui xuna xuna  
21  
22 texto aqui xuna xuna  
23  
24  
25  
26
```

Source Visual Knit on Save ABC Knit

```
knitr::opts_chunk$set(echo = TRUE)
```

texto aqui xuna xuna

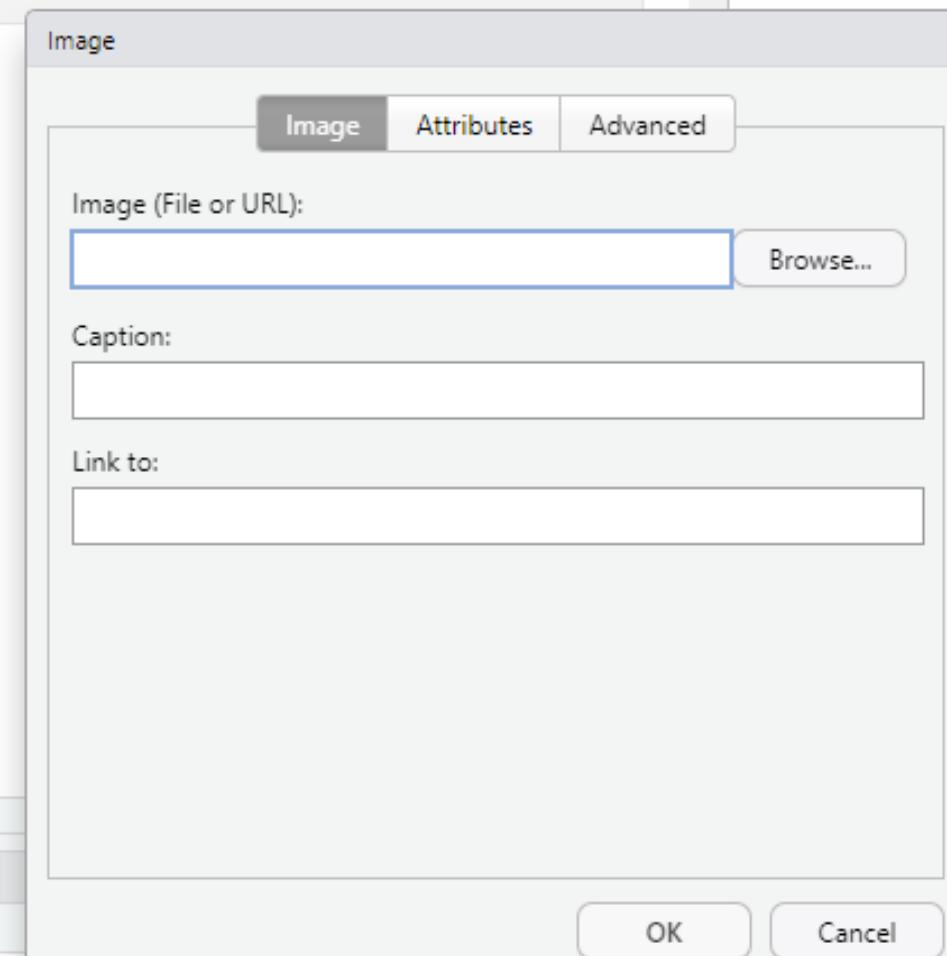
texto aqui xuna xuna

texto aqui xuna xuna

texto aqui xuna xuna

Console Terminal × Render × Background Jobs ×

.../CIB100653/xuna.Rmd



RStudio

File ID:52133237 Code View Plots Session Build Debug Profile Tools Help

+ - X

Untitled4* teste.Rmd* Untitled3* Go to file/function Addins Project: (None)

Untitled4* teste.Rmd* Untitled3* Knit on Save ABC Knit RStudio

11
12 # Doc
13
14 # Capa{.titulo #capa}
15
16
17 # Introdução{.titulo #intro}
18
19
20 ## R Markdown
21
22 This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and details on using R Markdown see <ht
23
24 When you click the **Knit** button includes both content as well as the chunks within the document. You can
14:16 Capa

Console Terminal Render Jobs

R 4.1.2 · C:/Users/merce/Documentos/evento_aula2/

11
12 #
13
14 #
15
16
17 #
18
19
20 #
21
22 Th
S
de
23 wh
ir
ch
17:25

Console

R 4.1.

11
12 #
13
14 #
15
16
17 #
18
19
20 #
21
22 Th
S
de
23 wh
ir
ch
17:25

C:/Users/merce/Documentos/evento_aula2/teste.html

teste.html Open in Browser Find

exemplo3

Merce
06/02/2022

Doc

Capa

Introdução

R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and details on using R Markdown see <http://rmarkdown.rstudio.com>.

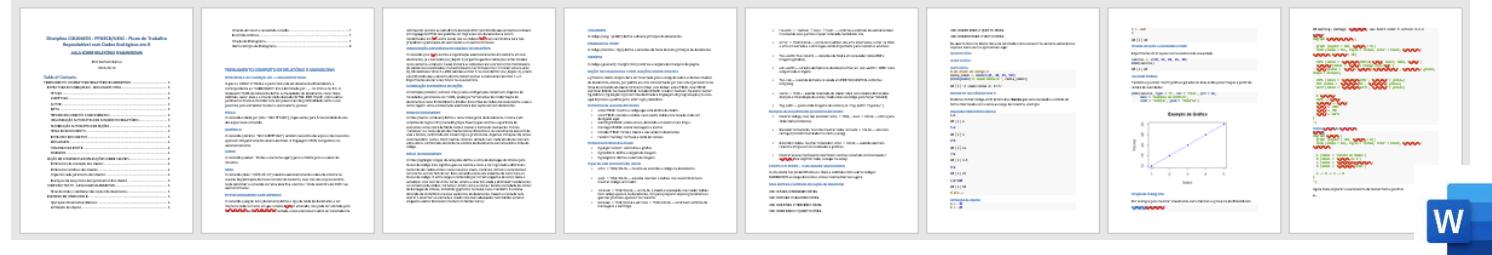
When you click the **Knit** button a document will be generated that includes both content as well as the output within the document. You can embed an R code chunk like this:

ÚTIL PARA REFERENCIAR AO LONGO DO TEXTO

EXERCÍCIO

Etapa:

- Mostrar o arquivo “AULA-DE-R-MARKDOWN-HERNANI.Rmd”
- Mostrar base de linguagem YAML
- Mostrar base de linguagem Markdown
- Mostrar base de comandos dos chunks e linguagem R
- Observar diferenças nos modelos de relatórios



C:/Users/Administrador/Desktop/Disciplina Relatórios Reprodutivos/AULA-DE-R-MARKDOWN-HERNANI.html

Disciplina CIB100653 - PPGEBC/UESC - Fluxo de Trabalho Reprodutível com Dados Ecológicos em R

AULA SOBRE RELATÓRIO R MARKDOWN

Prof. Hernani Ramos
2025-09-19
true

HTML

TREINAMENTO COMPLETO DE RELATÓRIO R MARKDOWN

ESTRUTURA DO CABEÇALHO - LINGUAGEM YAML



Disciplina CIB100653 - PPGEBC/UESC - Fluxo de Trabalho Reprodutível com Dados Ecológicos em R
AULA SOBRE RELATÓRIO R MARKDOWN

Prof. Hernani Ramos

2025-09-19

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AUTOR	2
DATA	2
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ORGANIZAÇÃO AUTOMÁTICA DE SUMÁRIO NO RELATÓRIO	3
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1

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TREINAMENTO COMPLETO DE RELATÓRIO R MARKDOWN



github.com/search?q=remedy&type=repositories

remedy

Filter by

Category	Count
Code	1.2M
Repositories	2.6k
Issues	72k
Pull requests	61k
Discussions	2k

2.6k results (192 ms)

Filter by

Code

1.2M

Repositories

2.6k

Issues

72k

Pull requests

61k

Discussions

2k



ThinkR-open/remedy

RStudio Addins to Simplify Markdown Writing

hacktoberfest

• R • ⭐ 454 • Updated on 29 de out. de 2022

← → C

github.com/ThinkR-open/remedy



Apps

README Code of conduct Contributing License



All the functions are meant to be mapped to keyboard shortcuts. A list of suggested shortcuts is provided towards the end of this README.

Note that most of the addins/shortcuts below will also work without selecting any text.

Install

```
remotes::install_github("ThinkR-open/remedy")
```



Once you've installed the package, you don't need to load it with `library()`, the addins are installed on your machine as part of the package install process.

Using {remedy}

```
remotes::install_github("ThinkR-open/remedy")
```



Go to file/function

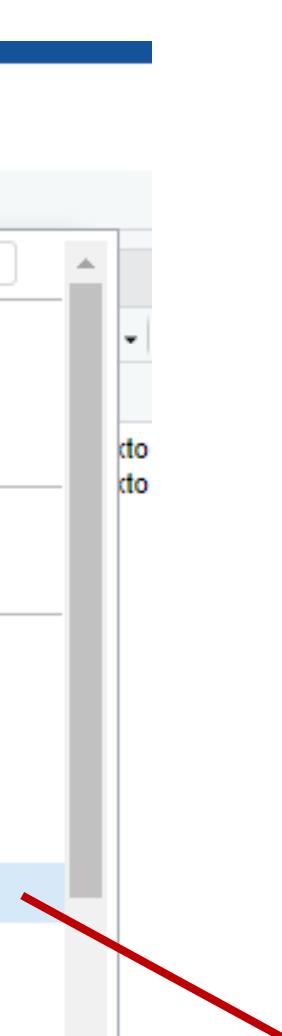
Addins

```
9
10 `r setup, include=FALSE}
11 knitr::opts_chunk$set(echo = TRUE)
12 ``
13
14 **texto** aqui xuna xuna
15
16 *texto aqui xuna xuna*
17
18 # texto aqui xuna xuna
19
20 # texto aqui xuna xuna
21
22 ! [texto aqui xuna xuna]
23
24 ^ [texto aqui xuna xuna]
25
26 _ [texto aqui xuna xuna]
27
28 texto __ aqui __ xuna xuna
29
30 _ [texto aqui xuna xuna]
```

CLIPR

Value to clipboard
Output to clipboard
COVR
Calculate package test coverage
REMEDY

Align
AlignEqual
Backtick
Blockquote
Bold
Chunk Embolden selected text
Chunksplit
Chunkname
Fig Ref
Footnote
H1
H2



RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

codigos em RMD.Rmd x inserção de figuras.Rmd* x xuna.

Knit on Save ABC Knit

Source Visual

```
1 ---  
2 title: "Untitled"  
3 author: "HERNANI"  
4 date: ``r sys.Date()``  
5 output:  
6   pdf_document: default  
7   html_document: default  
8 ---  
9  
10 `r setup, include=FALSE`  
11 knitr::opts_chunk$set(echo = TRUE)  
12 ---  
13  
14 **texto** aqui xuna xuna  
15  
16 | a | b | c |  
17 |---|---|---|  
18 | 1 | 2 | 3 |  
19 | 2 | 3 | 4 ||
```

H2
H3
H4
H5
H6
Htmlcomment
ID Ref
Image
Italics
LaTeX
List (ordered)
List (unordered)
Right
Strike
Table
Table Ref
Url
Xaringan

Insert a markdown table

Buscar as referencias

A red arrow points from the text "Buscar as referencias" at the top left to the search bar in the screenshot below.

The screenshot shows a Google Scholar search results page. The search query "carcass da cunha ramos" is entered in the search bar. The results page displays approximately 3,120 results found in 0.09 seconds. The results are listed in descending order of relevance. The first result is a link to an article titled "[HTML] An Overview of Forensic Ecology applied for marine megafauna conservation" by HG da Cunha Ramos, AC Colosio... (Forensic Science, 2024, Elsevier). The second result is a link to an article titled "Carcass non-recovery rate of franciscana dolphin (Pontoporia blainvillei), calibrated with a drift mark-recapture study at FMA Ia, Brazil" by HG da Cunha Ramos, AC Colosio... (American Journal of..., 2022, Iajamjournal.org).

scholar.google.com/scholar?hl=pt-BR&as_sdt=0%2C5&q=carcass+da+cunha+ramos&btnG=

Apps

Google Acadêmico

carcass da cunha ramos

Artigos

Aproximadamente 3.120 resultados (0,09 s)

A qualquer momento

Desde 2025

Desde 2024

Desde 2021

Período específico...

Ordenar por relevância

Ordenar por data

Em qualquer idioma

Pesquisar páginas em Português

[HTML] An Overview of Forensic Ecology applied for marine megafauna conservation
HG da Cunha Ramos, AC Colosio... - Forensic Science ..., 2024 - Elsevier
... The capability to backtrack **carcass** drift and estimate death sites helps evaluate anthropogenic impacts. This information also forms the basis for legal applications and gives ecological ...
☆ Salvar 99 Citar Citado por 2 Artigos relacionados Todas as 2 versões

Carcass non-recovery rate of franciscana dolphin (Pontoporia blainvillei), calibrated with a drift mark-recapture study at FMA Ia, Brazil
HG da Cunha Ramos, AC Colosio... - ... American Journal of ..., 2022 - Iajamjournal.org
... to the **carcass** recovery rate. This work aims to estimate the non-recovery **carcass** rate of ... estimate the non-recovery rate of franciscana **carcass** based on a) calibration with the drifter'...
☆ Salvar 99 Citar Citado por 4 Artigos relacionados Todas as 5 versões >>

The screenshot shows a Google Scholar search results page. The search query is "carcass da cunha ramos". The results are filtered by "Artigos" and show approximately 3,120 results in 0.09 seconds. A sidebar on the left provides filtering options: "A qualquer momento", "Desde 2025", "Desde 2024", "Desde 2021", "Período específico...", "Ordenar por relevância", "Ordenar por data", "Em qualquer idioma", "Pesquisar páginas em Português", "Qualquer tipo", "Artigos de revisão", and checkboxes for "incluir patentes" and "incluir citações". A red arrow points from the text "Clica em" to the first result title, "[HTML] An Overview of Forensic Ecology applied for marine megafauna conservation". Another red arrow points from the text "Clica em" to the bottom right citation export options: BibTeX, EndNote, RefMan, and RefWorks.

carcass da cunha ramos

Aproximadamente 3.120 resultados (0,09 s)

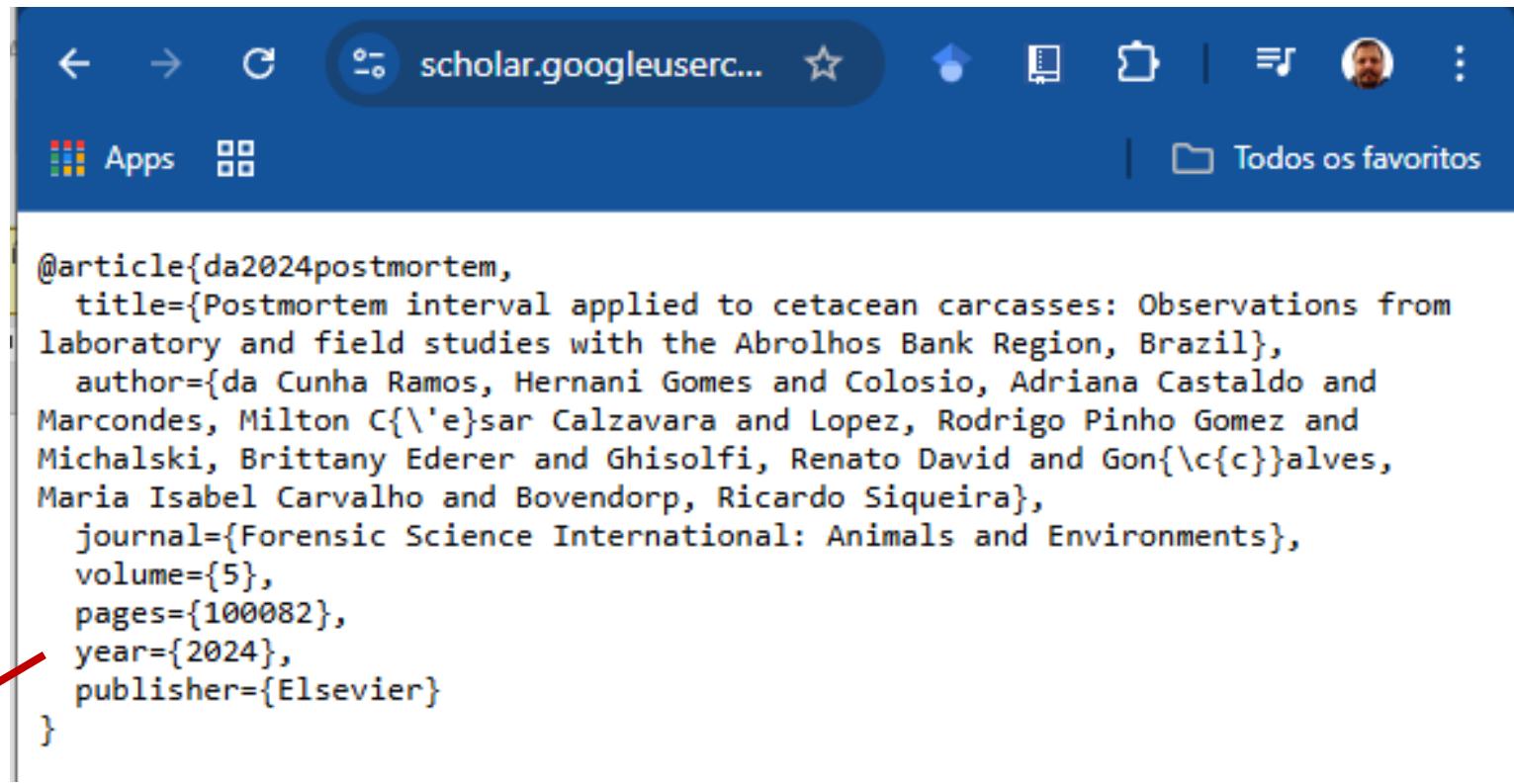
X Citar

MLA da Cunha Ramos, Hernani Gomes, et al. "An Overview of Forensic Ecology applied for marine megafauna conservation." *Forensic Science International: Animals and Environments* 5 (2024): 100085.

NBR 6023 DA CUNHA RAMOS, Hernani Gomes et al. An Overview of Forensic Ecology applied for marine megafauna conservation. *Forensic Science International: Animals and Environments*, v. 5, p. 100085, 2024.

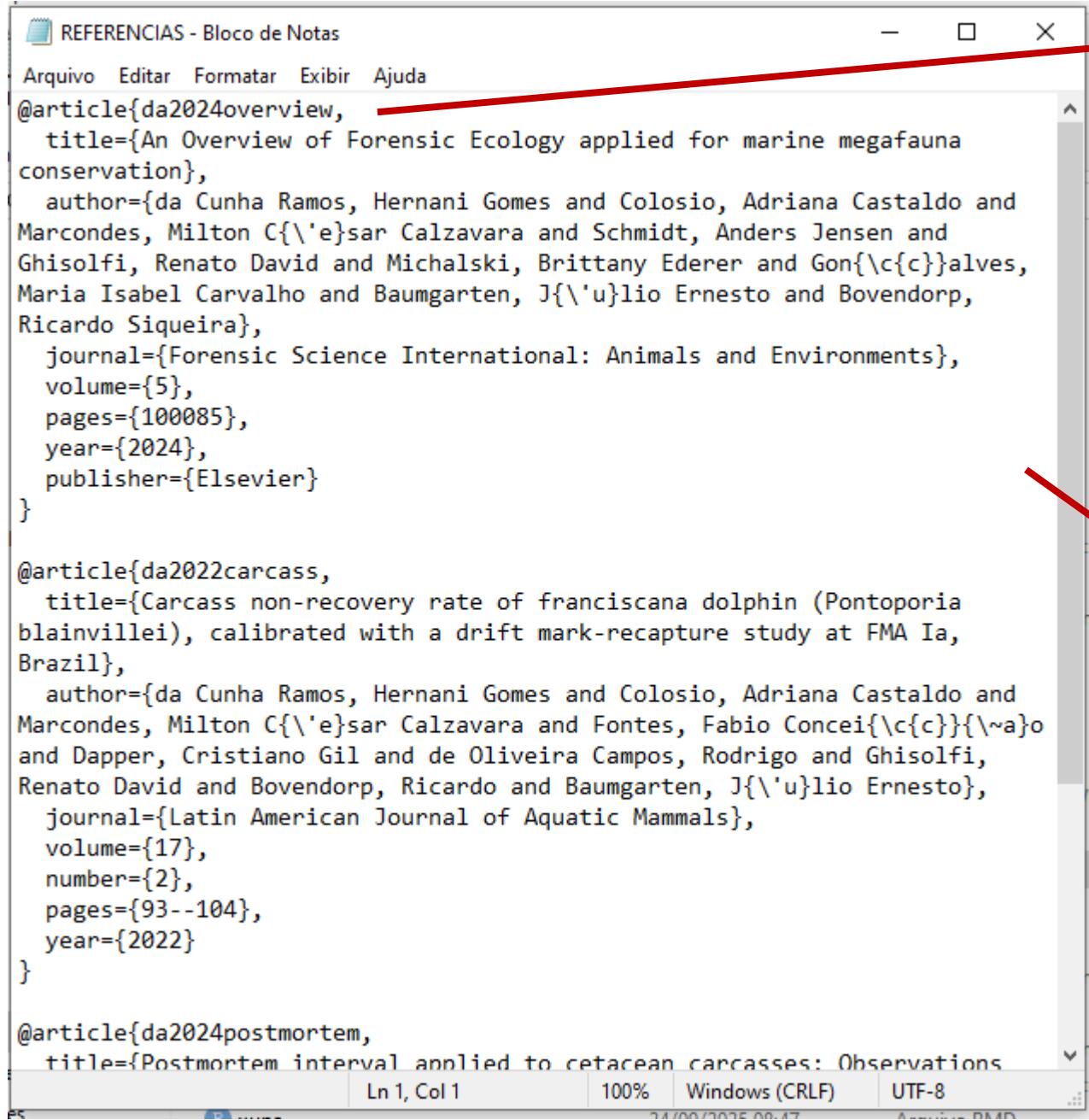
APA da Cunha Ramos, H. G., Colosio, A. C., Marcondes, M. C. C., Schmidt, A. J., Ghisolfi, R. D., Michalski, B. E., ... & Bovendorp, R. S. (2024). An Overview of Forensic Ecology applied for marine megafauna conservation. *Forensic Science International: Animals and Environments*, 5, 100085.

BibTeX EndNote RefMan RefWorks



```
@article{da2024postmortem,  
    title={Postmortem interval applied to cetacean carcasses: Observations from  
laboratory and field studies with the Abrolhos Bank Region, Brazil},  
    author={da Cunha Ramos, Hernani Gomes and Colosio, Adriana Castaldo and  
Marcondes, Milton C{\e}sar Calzavara and Lopez, Rodrigo Pinho Gomez and  
Michalski, Brittany Ederer and Ghisolfi, Renato David and Gon{\c{c}}alves,  
Maria Isabel Carvalho and Bovendorp, Ricardo Siqueira},  
    journal={Forensic Science International: Animals and Environments},  
    volume={5},  
    pages={100082},  
    year={2024},  
    publisher={Elsevier}  
}
```

Copia tudo
e salve num
bloco de notas



REFERENCIAS - Bloco de Notas

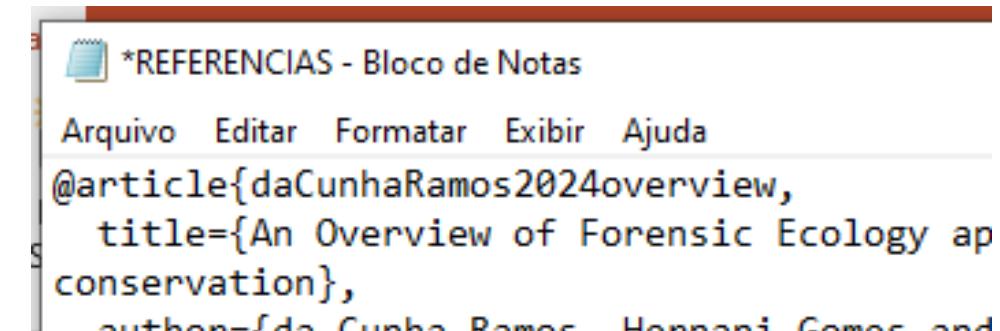
Arquivo Editar Formatar Exibir Ajuda

```
@article{da2024overview,
  title={An Overview of Forensic Ecology applied for marine megafauna
conservation},
  author={da Cunha Ramos, Hernani Gomes and Colosio, Adriana Castaldo and
Marcondes, Milton C{\e}sar Calzavara and Schmidt, Anders Jensen and
Ghisolfi, Renato David and Michalski, Brittany Ederer and Gon{\c{c}}alves,
Maria Isabel Carvalho and Baumgarten, J{\u}lio Ernesto and Bovendorp,
Ricardo Siqueira},
  journal={Forensic Science International: Animals and Environments},
  volume={5},
  pages={100085},
  year={2024},
  publisher={Elsevier}
}

@article{da2022carcass,
  title={Carcass non-recovery rate of franciscana dolphin (Pontoporia
blainvilie), calibrated with a drift mark-recapture study at FMA Ia,
Brazil},
  author={da Cunha Ramos, Hernani Gomes and Colosio, Adriana Castaldo and
Marcondes, Milton C{\e}sar Calzavara and Fontes, Fabio Concei{\c{c}}{\~a}o
and Dapper, Cristiano Gil and de Oliveira Campos, Rodrigo and Ghisolfi,
Renato David and Bovendorp, Ricardo and Baumgarten, J{\u}lio Ernesto},
  journal={Latin American Journal of Aquatic Mammals},
  volume={17},
  number={2},
  pages={93--104},
  year={2022}
}

@article{da2024postmortem,
  title={Postmortem interval applied to cetacean carcasses: Observations
```

Pode alterar o nome



*REFERENCIAS - Bloco de Notas

Arquivo Editar Formatar Exibir Ajuda

```
@article{daCunhaRamos2024overview,
  title={An Overview of Forensic Ecology ap
conservation},
  author={da Cunha Ramos Hernani Gomes and
```

Salvar como *bib
na mesma pasta
do *Rmd

```
REFERENCIAS - Bloco de Notas

Arquivo Editar Formatar Exibir Ajuda
@article{da2024overview,
    title={An Overview of Forensic Ecology applied for marine megafauna
conservation},
    author={da Cunha Ramos, Hernani Gomes and Colosio, Adriana Castaldo and
Marcondes, Milton C{\e}sar Calzavara and Schmidt, Anders Jensen and
Ghisolfi, Renato David and Michalski, Brittany Ederer and Gon{\c{c}}alves,
Maria Isabel Carvalho and Baumgarten, J{\u}lio Ernesto and Bovendorp,
Ricardo Siqueira},
    journal={Forensic Science International: Animals and Environments},
    volume={5},
    pages={100085},
    year={2024},
    publisher={Elsevier}
}

@article{da2022carcass,
    title={Carcass non-recovery rate of franciscana dolphin (Pontoporia
blainvilie), calibrated with a drift mark-recapture study at FMA Ia,
Brazil},
    author={da Cunha Ramos, Hernani Gomes and Colosio, Adriana Castaldo and
Marcondes, Milton C{\e}sar Calzavara and Fontes, Fabio Concei{\c{c}}{\~a}o
and Dapper, Cristiano Gil and de Oliveira Campos, Rodrigo and Ghisolfi,
Renato David and Bovendorp, Ricardo and Baumgarten, J{\u}lio Ernesto},
    journal={Latin American Journal of Aquatic Mammals},
    volume={17},
    number={2},
    pages={93-104},
    year={2022}
}

@article{da2024postmortem,
    title={Postmortem interval applied to cetacean carcasses: Observations
Ln 1, Col 1      100% Windows (CRLF)      UTF-8
24/09/2025 00:47      Automação BMD}
```

Ç em Bibtex

acentos em Bibtex

O uso de acentos e caracteres especiais em arquivos .bib pode ser um pouco complicado, pois o BibTeX é uma tecnologia mais antiga que não lida nativamente com caracteres Unicode (como o ç ou ã). Por isso, você precisa usar uma sintaxe especial do LaTeX.

Acentos e Caracteres Especiais no BibTeX

- **Acento Agudo** (á, é, í, ó, ú)
 - á → {\\'a}
 - Á → {\\'A}
 - Exemplo: title = {Análise de Frequência}
 - No BibTeX: title = {An{\\'a}lise de Frequ{\^e}ncia}
- **Acento Grave** (à)

 - à → {\`a}
 - À → {\`A}
 - Exemplo: address = {à Esquerda}

- **Til** (ã, ô)
 - ã → {\~a}
 - Ã → {\~A}
 - Exemplo: publisher = {Editora Ação}
 - No BibTeX: publisher = {Editora A{\c c}{\~a}o}

- **Crase** (à, è)
 - à → {\`a}
 - À → {\`A}
 - Exemplo: title = {à Venda}
 - No BibTeX: title = {a Venda}
- **Cedilha** (ç)
 - ç → {\c{c}}
 - Ç → {\c{C}}
 - Exemplo: journal = {Ciência da Computação}
 - No BibTeX: journal = {Ci{\^e}ncia da Comput{\c a}o}

*REFERENCIAS - Bloco de Notas

Arquivo Editar Formatar Exibir Ajuda

```
@article{daCunhaRamos2024overview,
  title={An Overview of Forensic Ecology applied for marine megafauna
conservation},
  author={da Cunha Ramos, Hernani Gomes and Colosio, Adriana Castaldo and
Marcondes, Milton C{'e}sar Calzavara and Schmidt, Anders Jensen and
Ghisolfi, Renato David and Michalski, Brittany Ederer and Gon{c{c}}alves,
Maria Isabel Carvalho and Baumgarten, J{u}lio Ernesto and Bovendorp,
Ricardo Siqueira},
  journal={Forensic Science International: Animals and Environments},
  volume={5},
  pages={100085},
  year={2024},
  doi={https://doi.org/10.1016/j.fsiae.2024.100085},
  publisher={Elsevier}
}
```

doi + vírgula

Livro

```
@book{Pereira2022,
  author      = {Pereira, Carlos Eduardo},
  title       = {{Introdução à Ciência de Dados}},
  publisher   = {Editora Moderna},
  address     = {São Paulo},
  year        = {2022},
  edition     = {2nd},
}
```

Capítulo de livro

```
@incollection{Costa2021,
  author      = {Costa, Fabiana M.},
  title       = {{Os Desafios da Pesquisa em Tecnologia}},
  editor      = {Almeida, Joana P.},
  booktitle   = {{Manual de Metodologia Científica}},
  publisher   = {Editora Acadêmica},
  address     = {Rio de Janeiro},
  pages       = {88-105},
  year        = {2021},
}
```

Anais de congresso

```
@inproceedings{Gomes2023,
  author      = {Gomes, Lucas S. and Vieira, Daniela F.},
  title       = {{O Impacto da Inteligência Artificial no Ensino}},
  booktitle   = {{Anais da 15ª Conferência Internacional de Educação}},
  pages       = {210-218},
  address     = {Lisboa},
  year        = {2023},
}
```

Tese de doutorado

```
@phdthesis{Lima2020,
  author      = {Lima, Rafael E.},
  title       = {{A Utilização de Dados em Políticas Públicas}},
  school     = {Universidade de São Paulo},
  year        = {2020},
  type       = {Tese de Doutorado},
}
```

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Dunlop, Rebecca A.;... 2016 The song of the humpback whale: a study of the use of song during j... Behavioral Eco... 10:47

Dutra, G.F., Allen G.... 2005 A Review of the Abrolhos Bank and the Abrolhos Islands: An Analysis of the Abrolhos Ba... RAP Bulletin of... 10:47

Vila-Nova, D A; Ferr... 2016 Unidades de Conservação Marinhas do Brasil e conservação das espécies marinas. Conhecendo o... 10:47

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Morete, Maria E.; Bi...	2008	Fluctuating abundance of humpback whales (Megaptera no...	Journal of the ...	10:47	
Carvalho, Mateus S...	2018	Advances in Marine Vertebrate Research in Latin America		10:47	
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do Nascimento, Reg...	2022	Denomination of origin: a tool for the sustainable development of the Brazilian whalebone industry. Peira Do Brasil: Uma ...	Journal of Intern...	10:47	
Ramos, Eric Angel; ...	2023	International Conference on the Biology and Conservation of Humpback Whales acr...	Scientific Reports	10:47	
Dunlop, Rebecca A.;...	2016	The song of the humpback whale: a study of the use of song during j...	Behavioral Eco...	10:47	
Dutra, G.F., Allen G....	2005	A Review of the Abrolhos Bank and the Abrolhos Islands: An Analysis of the Abrolhos Ba...	RAP Bulletin of...	10:47	
Vila-Nova, D A; Ferr...	2016	Unidades de Conservação Marinhas do Brasil e conservação das espécies marinas. Conhecendo o...		10:47	
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★	Ramos, E.; Cheeseman, K.	Impact of vessel traffic on humpback whale groundings in the Southern Ocean
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Contents

Type: Journal Article

Geomorphometric maps of Australia's Marine Park estate and their role in improving the integrated monitoring and management of marine ecosystems

Authors: V. Lucieer, E. Flukes, J. Monk et al.

View research catalog entry for this paper

Journal: *Frontiers in Marine Science*

Year: 2023

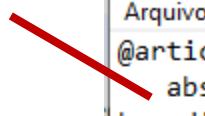
Formatted Citation

LaTeX Citation Command

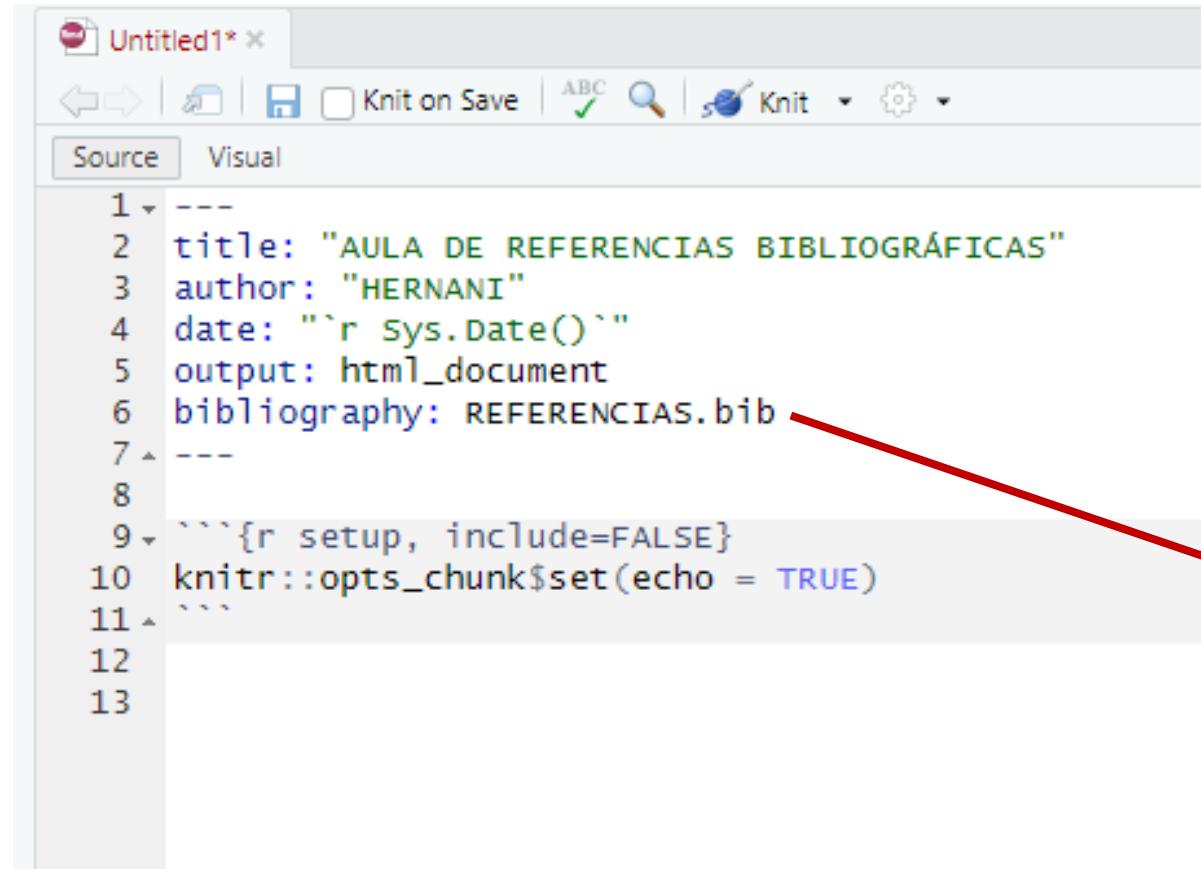
BibTeX Entry

The loss of marine biodiversity is a major global issue that needs to be prioritised. In Australia, a considerable proportion (48%) of its Exclusive Economic Zone is dedicated to marine protected areas. To effectively manage this network of marine protected areas Australia has recently

copia



```
*Sem título - Bloco de Notas
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@article{Morete2008,
  abstract = {The humpback whale (Megaptera novaeangliae) population that uses Abrolhos Bank, off the east coast of Brazil as a breeding ground is increasing. To describe temporal changes in the relative abundance of humpback whales around Abrolhos, seven years (1998-2004) of whale count data were collected during July through to November. During one-hour-scans, observers determined group size within 9.3 km (5 n.m.) of a land-based observing station. A total of 930 scans, comprising 7996 sightings of adults and 2044 calves were analysed using generalized linear models that included variables for time of day, day of the season, years and two-way interactions as possible predictors. The pattern observed was the gradual build-up and decline in whale counts within seasons. Patterns and peaks of adult and calf counts varied among years. Although fluctuation was observed, there was generally an increasing trend in adult counts among years. Calf counts increased only in 2004. These fluctuations may have been caused by some environmental conditions in humpback whales' summering grounds and also by changes in spatial-temporal concentrations in Abrolhos Bank. The general pattern observed within the study area mirrored what was observed in the whole Abrolhos Bank. Knowledge of the consistency with which humpback whales use this important nursing area should prove beneficial for designing future monitoring programmes especially related to whale watching activities around Abrolhos Archipelago. ©2008 Marine Biological Association of the United Kingdom.},
  author = {Maria E. Morete and Tatiana L. Bisi and Richard M. Pace and Sergio Rosso},
  doi = {10.1017/S0025315408000362},
  issn = {00253154},
  issue = {6},
  journal = {Journal of the Marine Biological Association of the United Kingdom},
  keywords = {Abrolhos Bank,Abundance,Generalized linear model,Humpback whale,Land-based station,Megaptera novaeangliae},
  pages = {1229-1235},
  title = {Fluctuating abundance of humpback whales (Megaptera novaeangliae) in a calving ground off coastal Brazil},
  volume = {88},
  year = {2008}
}
```



```
Untitled1* | Knit on Save | ABC | Knit | Settings | Help
```

Source Visual

```
1 ---  
2 title: "AULA DE REFERENCIAS BIBLIOGRÁFICAS"  
3 author: "HERNANI"  
4 date: ``r sys.Date()``  
5 output: html_document  
6 bibliography: REFERENCIAS.bib  
7 ---  
8  
9 ```{r setup, include=FALSE}  
10 knitr::opts_chunk$set(echo = TRUE)  
11```  
12  
13
```

Se estiver na mesma
pasta entre assim,
caso contrario
especifique o caminho
completo

Source Visual

```
1 ---  
2 title: "AULA DE REFERENCIAS BIBLIOGRÁFICAS"  
3 author: "HERNANI"  
4 date: "`r Sys.Date()`"  
5 output:  
6   pdf_document: default  
7   html_document: default  
8 bibliography: REFERENCIAS.bib  
9 ---
```

```
10  
11 ```{r setup, include=FALSE}  
12 knitr::opts_chunk$set(echo = TRUE)  
13 ```
```

```
14  
15 # Como fazer as citações?  
16  
17 ## Citação direta, no meio do texto.
```

```
18 De acordo com @daCunhaRamos2024overview a ecologia forense compreende numa abordagem  
multidisciplinar inovadora para auxiliar na avaliação de impactos antrópicos e bla bla bla...
```

```
20  
21 ## Citação indireta, final de parágrafo.
```

```
22 A ecologia forense compreende numa nova ciencia em expansão [@daCunhaRamos2022carcass;  
@daCunhaRamos2024overview; @daCunhaRamos2024postmortem].
```

```
24  
25 #| REFERÊNCIAS
```

Citação direta

Citação indireta

AULA DE REFERENCIAS BIBLIOGRÁFICAS

HERNANI

2025-09-24

Como fazer as citações?

Citação direta, no meio do texto.

De acordo com Cunha Ramos, Colosio, Marcondes, Schmidt, et al. (2024) a ecologia forense compreende numa abordagem multidisciplinar inovadora para auxiliar na avaliação de impactos antrópicos e bla bla bla...

Citação indireta, final de parágrafo.

A ecologia forense compreende numa nova ciencia em expansão (Cunha Ramos et al. 2022; Cunha Ramos, Colosio, Marcondes, Schmidt, et al. 2024; Cunha Ramos, Colosio, Marcondes, Lopez, et al. 2024).

ordem
alfabética
automática

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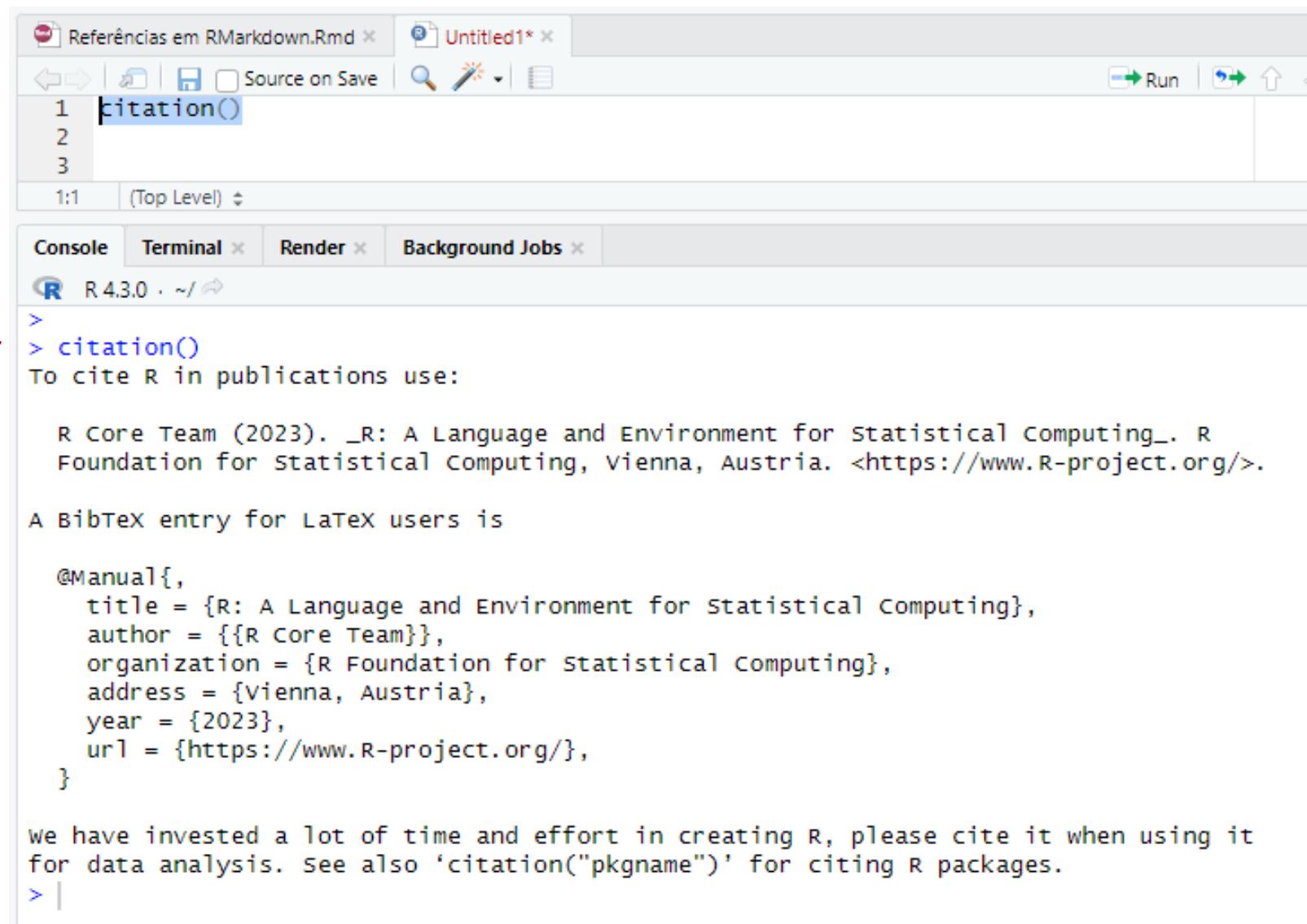
Cunha Ramos, Hernani Gomes da, Adriana Castaldo Colosio, Milton César Calzavara Marcondes, Fabio Conceição Fontes, Cristiano Gil Dapper, Rodrigo de Oliveira Campos, Renato David Ghisolfi, Ricardo Bovendorp, and Júlio Ernesto Baumgarten. 2022. "Carcass Non-Recovery Rate of Franciscana Dolphin (*Pontoporia Blainvilieii*), Calibrated with a Drift Mark-Recapture Study at FMA Ia, Brazil." *Latin American Journal of Aquatic Mammals* 17 (2): 93–104.

Cunha Ramos, Hernani Gomes da, Adriana Castaldo Colosio, Milton César Calzavara Marcondes, Rodrigo Pinho Gomez Lopez, Brittany Ederer Michalski, Renato David Ghisolfi, Maria Isabel Carvalho Gonçalves, and Ricardo Siqueira Bovendorp. 2024. "Postmortem Interval Applied to Cetacean Carcasses: Observations from Laboratory and Field Studies with the Abrolhos Bank Region, Brazil." *Forensic Science International: Animals and Environments* 5: 100082.

Cunha Ramos, Hernani Gomes da, Adriana Castaldo Colosio, Milton César Calzavara Marcondes, Anders Jensen Schmidt, Renato David Ghisolfi, Brittany Ederer Michalski, Maria Isabel Carvalho Gonçalves, Júlio Ernesto Baumgarten, and Ricardo Siqueira Bovendorp. 2024. "An Overview of Forensic Ecology Applied for Marine Megafauna Conservation." *Forensic Science International: Animals and Environments* 5: 100085.

Citação de pacotes

R



The screenshot shows the RStudio interface. In the top-left pane, there are two tabs: "Referências em RMarkdown.Rmd" and "Untitled1*". The "Untitled1*" tab contains the following R code:

```
1 citation()
```

In the bottom-right pane, the "Console" tab shows the output of the citation() function:

```
> citation()
> citation()
To cite R in publications use:

R Core Team (2023). _R: A Language and Environment for Statistical Computing_. R
Foundation for Statistical Computing, vienna, Austria. <https://www.R-project.org/>.

A BibTeX entry for LaTeX users is

@Manual{,
  title = {R: A Language and Environment for statistical computing},
  author = {{R Core Team}},
  organization = {R Foundation for Statistical Computing},
  address = {Vienna, Austria},
  year = {2023},
  url = {https://www.R-project.org/},
}
```

Below the BibTeX entry, a note encourages citation:

we have invested a lot of time and effort in creating R, please cite it when using it
for data analysis. See also 'citation("pkgname")' for citing R packages.

The "Console" tab also displays the R version information: "R 4.3.0".

Função mais limpa → toBibtex()

The screenshot shows the RStudio interface. In the top-left panel, there are two tabs: "Referências em RMarkdown.Rmd" and "Untitled1*". The main workspace shows the following R code:

```
1 toBibtex(citation())
2
3
```

The status bar at the bottom indicates "2:1 (Top Level)". Below the workspace is a tab bar with "Console", "Terminal", "Render", and "Background Jobs". The "Console" tab is active, showing the R session output:

```
R 4.3.0 · ~/ 
>
> toBibtex(citation())
@manual{,
  title = {R: A Language and Environment for Statistical Computing},
  author = {{R Core Team}},
  organization = {R Foundation for Statistical Computing},
  address = {Vienna, Austria},
  year = {2023},
  url = {https://www.R-project.org/},
}
```

ggplot2

The screenshot shows the RStudio interface. In the top-left pane, there are two tabs: "Referências em RMarkdown.Rmd" and "Untitled1*". The "Untitled1*" tab contains the following R code:

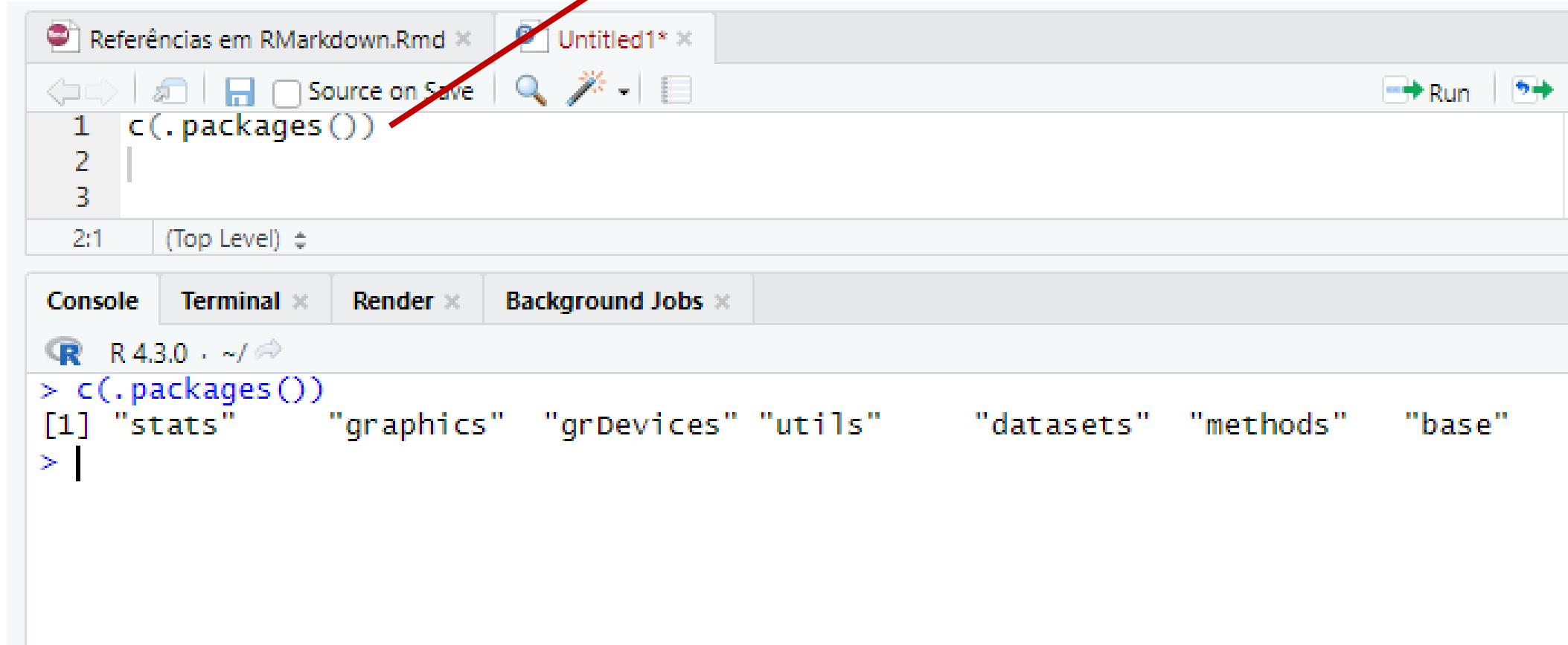
```
1 toBibtex(citation("ggplot2"))
2
3
```

In the bottom-right pane, the "Console" tab is active, displaying the output of the command:

```
R 4.3.0 . ~/ 
> toBibtex(citation("ggplot2"))
@Book{,
  author = {Hadley Wickham},
  title = {ggplot2: Elegant Graphics for Data Analysis},
  publisher = {Springer-Verlag New York},
  year = {2016},
  isbn = {978-3-319-24277-4},
  url = {https://ggplot2.tidyverse.org},
}
```

A red arrow points from the word "ggplot2" in the "ggplot2" section of the text above down to the "ggplot2" section in the console output.

Arquivos utilizados no script



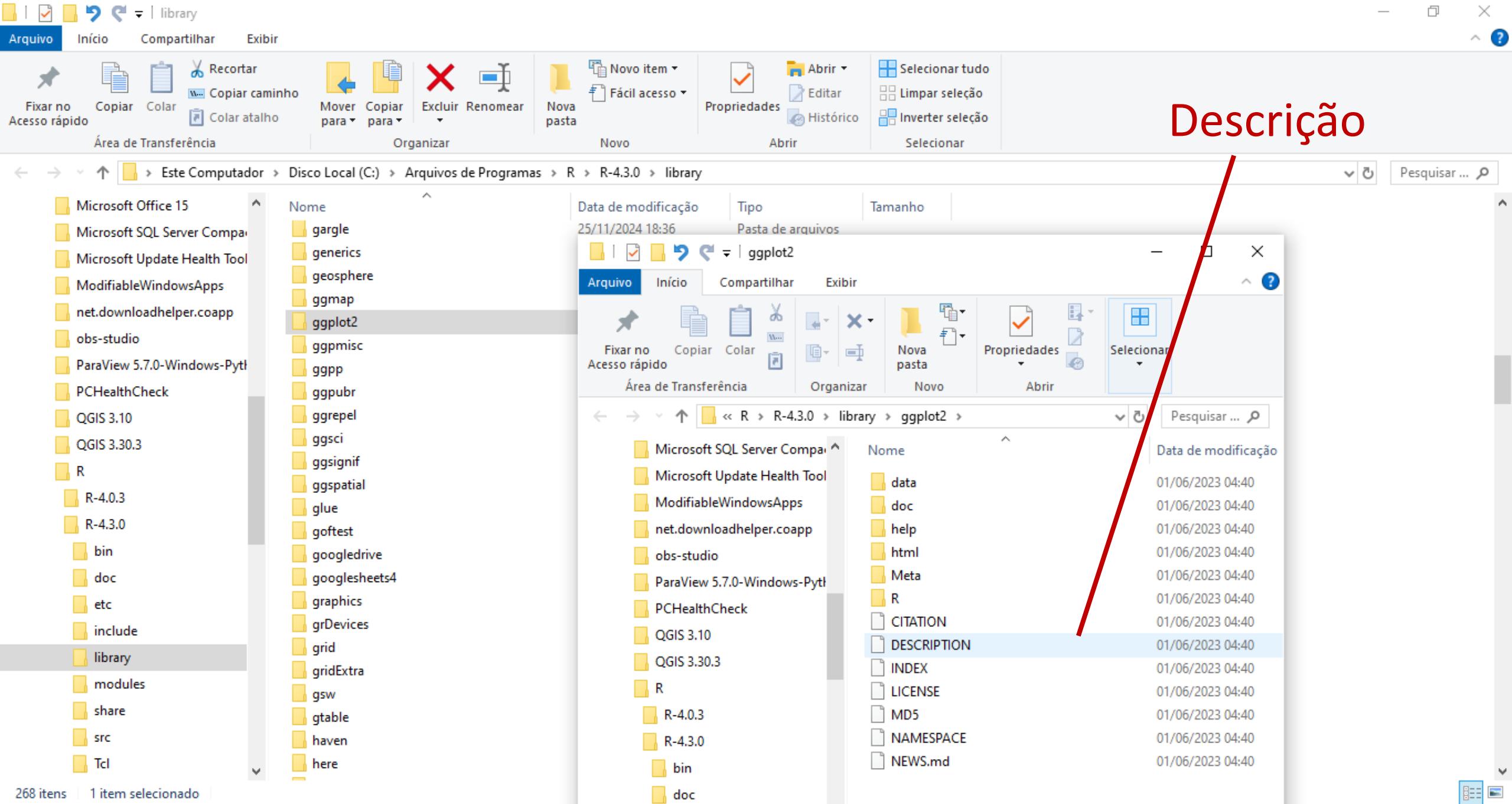
A screenshot of the RStudio interface. At the top, there are two tabs: "Referências em RMarkdown.Rmd" and "Untitled1*". Below the tabs is a toolbar with icons for back, forward, save, source on save, search, and run. The main workspace shows the following R code:

```
1 c(.packages())
2
3
```

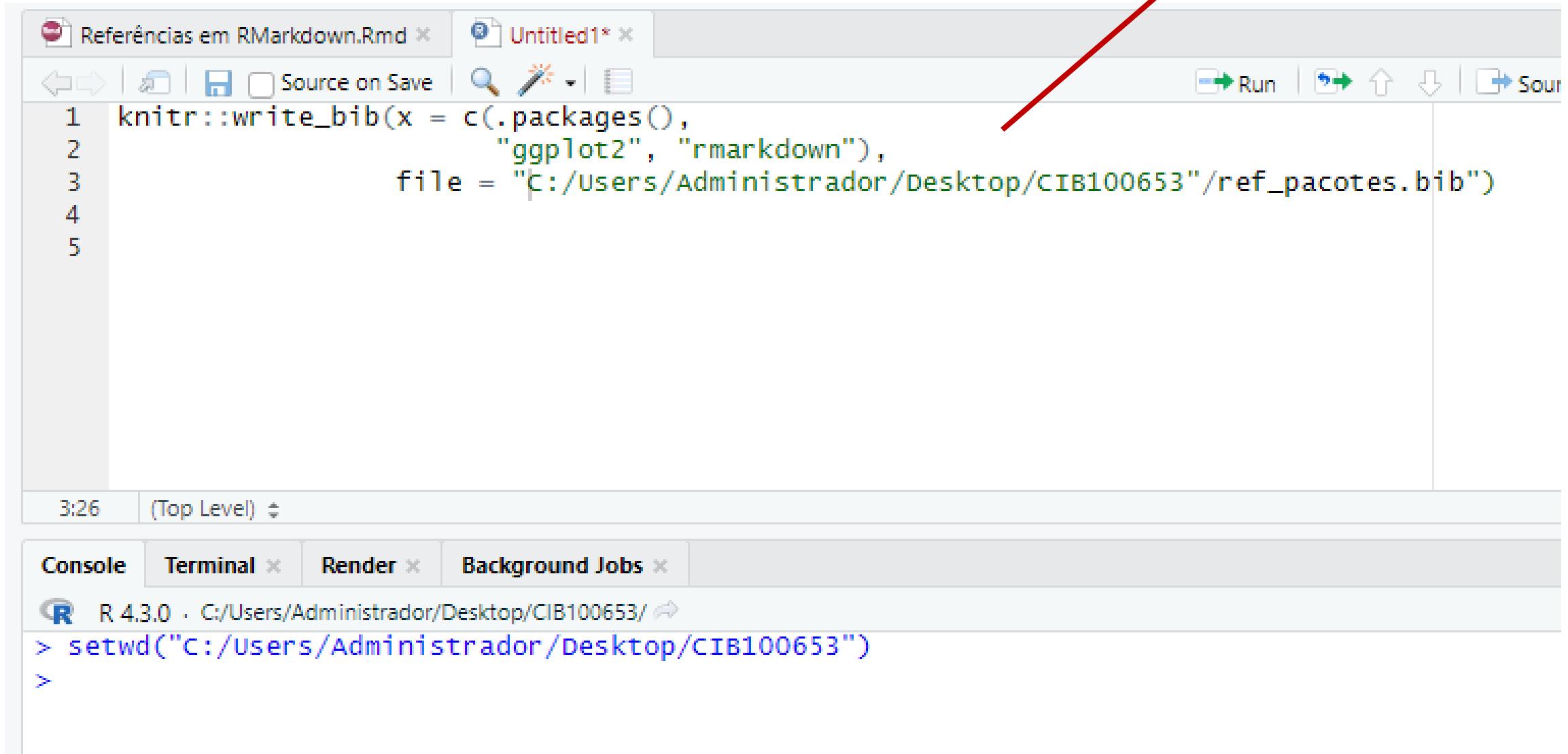
The status bar indicates "2:1 (Top Level)". Below the workspace is a tab bar with "Console", "Terminal", "Render", and "Background Jobs". The "Console" tab is active, showing the R environment and the results of the code execution:

```
R 4.3.0 - ~/r
> c(.packages())
[1] "stats"      "graphics"    "grDevices"   "utils"       "datasets"    "methods"    "base"
>
```

Descrição



Escreve o Bib



The screenshot shows the RStudio interface. In the top-left panel, there are two tabs: "Referências em RMarkdown.Rmd" and "Untitled1". The "Untitled1" tab contains the following R code:

```
1 knitr::write_bib(x = c(.packages(),
2                         "ggplot2", "rmarkdown"),
3                         file = "C:/Users/Administrador/Desktop/CIB100653/ref_pacotes.bib")
```

A red arrow points from the word "Bib" in the title "Escreve o Bib" to the ".bib" extension in the file path "ref_pacotes.bib".

In the bottom-left panel, there are four tabs: "Console", "Terminal", "Render", and "Background Jobs". The "Console" tab is active and shows the following R session:

```
R 4.3.0 · C:/Users/Administrador/Desktop/CIB100653/ ↵
> setwd("C:/Users/Administrador/Desktop/CIB100653")
>
```

Se houver
mais de um *bib

The screenshot shows the RStudio interface. In the top-left corner, there are two tabs: "Referências em RMarkdown.Rmd*" and "Untitled1*". The code editor window contains the following R code:

```
1 knitr::write_bib(x = c(.packages(), "ggplot2", "rmarkdown"),
2                   file ='C:/Users/Administrador/Desktop/CIB100653/ref_pacotes.bib')
3
4
```

Below the code editor is a status bar with "3:1" and "(Top Level)". Underneath the status bar is a tab bar with "Console", "Terminal", "Render", and "Background Jobs". The terminal window shows the command being run:

```
R 4.3.0 · C:/Users/Administrador/Desktop/CIB100653/
> knitr::write_bib(x = c(.packages(), "ggplot2", "rmarkdown"),
+                   file ='c:/users/Administrador/desktop/CIB100653/ref_pacotes.bib')
>
```

The RStudio file browser is visible at the bottom of the interface. It lists the following files:

File	Last Modified	Type
ref_pacotes.bib	24/09/2025 11:42	Arquivo BIB
Referências em RMarkdown	24/09/2025 09:54	Arquivo RMD
REFERENCIAS.bib	24/09/2025 09:52	Arquivo BIB
REFERENCIAS	24/09/2025 09:52	Documento de Texto

The screenshot shows the R Markdown source code in the RStudio editor. The code includes a YAML front matter section and a bibliography section:

```
1 ---  
2 title: "AULA DE REFERENCIAS BIBLIOGRÁFICAS"  
3 author: "HERNANI"  
4 date: "`r Sys.Date()`"  
5 output:  
6   pdf_document: default  
7   html_document: default  
8 bibliography: [REFERENCIAS.bib, ref_pacotes.bib]  
9 ---  
10
```

Screenshot of a browser window showing the Zotero Style Repository search results for 'abnt'. The search bar contains 'zotero.org/styles?q=abnt'. The page title is 'Zotero Style Repository'. The search results section shows 28 styles found, with a red arrow pointing from the text 'Escolher padrão desejado' to the first result in the list.

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- [Associação Brasileira de Normas Técnicas \(numérico, Português - Brasil\)](#) (2024-09-11 16:04:12)
- [Associação Brasileira de Normas Técnicas \(Português - Brasil\)](#) (2025-05-15 16:28:34)
- [Escola de Comando e Estado-Maior do Exército - ABNT \(Português - Brasil\)](#) (2021-02-15 03:41:57)
- [Escola de Comando e Estado-Maior do Exército - Instituto Meira Mattos - ABNT \(Português - Brasil\)](#) (2021-02-15 03:41:57)
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Citations

(Brosh, 2010; Hisakata; Nishida; Johnston, 2016; Hogue, 2001; Sambrook; Russell, 2001)

Bibliography

BROSH, Allie. **The Alot is better than you at everything. Hyperbole and a Half**, 13 abr. 2010. Disponível em: <<https://hyperboleandahalf.blogspot.com/2010/04/alot-is-better-than-you-at-everything.html>>. Acesso em: 6 fev. 2018

HISAKATA, Rumi; NISHIDA, Shin'ya; JOHNSTON, Alan. An adaptable metric shapes perceptual space. **Current Biology**, v. 26, n. 14, p. 1911–1915, 25 jul. 2016.

HOGUE, Christopher W. V. Structure databases. In: BAXEVANIS, Andreas D.; OUELLETTE, B. F. Francis (Orgs.). **Bioinformatics**. Life Sciences Series. 2. ed. New York, NY: Wiley-Interscience, 2001. p. 83–109.

- SAMBROOK, Joe; RUSSELL, David William. **Molecular cloning: a laboratory manual**. 3. ed. Cold Spring Harbor, NY: CSHL Press, 2001.

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- Escola de Comando e Estado-Maior do Exército - Instituto Meira Mattos - ABNT (Português - Brasil) (2021-02-15 03:41:57)
- Instituto Brasileiro de Informação em Ciência e Tecnologia - ABNT (autoria abreviada) (2025-05-18 00:55:38)
- Instituto Brasileiro de Informação em Ciência e Tecnologia - ABNT (autoria completa) (2025-05-18 00:55:38)
- Instituto de Pesquisa Econômica Aplicada - ABNT (Português - Brasil) (2021-02-15 03:41:57)
- Universidade de São Paulo - Escola de Comunicações e Artes - ABNT (Português - Brasil) (2025-05-18 00:55:38)

<https://www.zotero.org/styles/associacao-brasileira-de-normas-tecnicas>

Aspecto visual

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Format: author-date

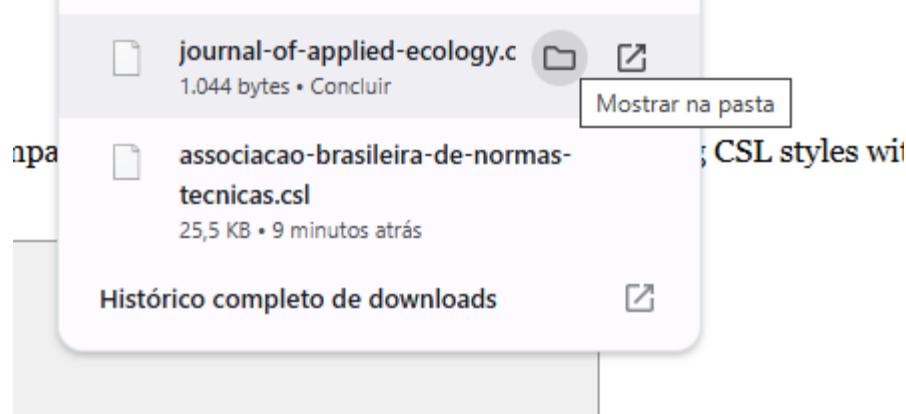
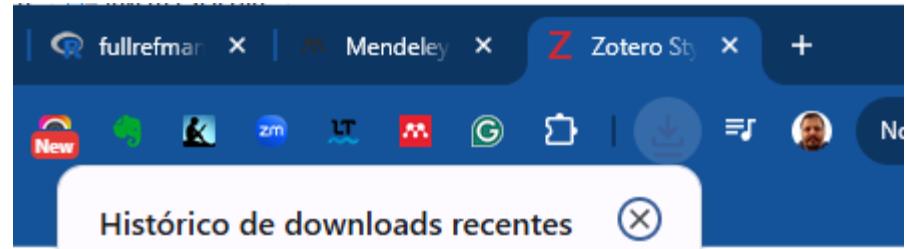
Fields: biology science social_science

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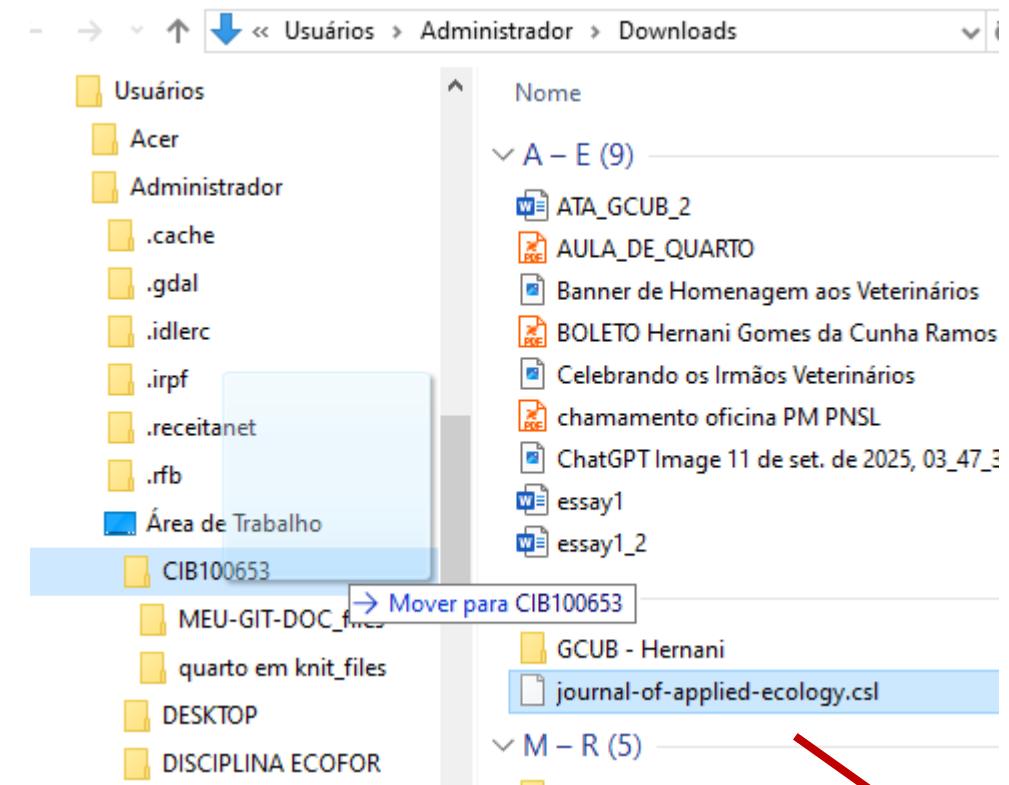
- [Journal of Agricultural and Applied Economics](#) (2018-05-22 00:59:23)
- [Journal of Applied Ecology](#) (2020-12-15 13:52:02)



A screenshot of RStudio showing an R Markdown file ('Referências em RMarkdown.Rmd') and an untitled R script ('Untitled1').

The R Markdown code is as follows:

```
1 ---  
2 title: "AULA DE REFERENCIAS BIBLIOGRÁFICAS"  
3 author: "HERNANI"  
4 date: "`r sys.date()`"  
5 output:  
6   pdf_document: default  
7   html_document: default  
8 bibliography: [REFERENCIAS.bib, ref_pacotes.bib]  
9 csv: journal-of-applied-ecology.csv  
10 ---
```





Start final.pdf X

Bookmarks

Search...

+ Como fazer as citacoes?

REFERENCIAS

Untitled

HERNANI

2025-09-24

Como fazer as citacoes?

Citacoes diretas, no meio do texto.

De acordo com Cunha Ramos et al. (2024a) a ecologia forense comprehende numa abordagem multidisciplinar inovadora para auxiliar na avaliaÃ§Ã£o de impactos antrÃ³picos e bla bla bla...

Citacoes indiretas, final de paragrafo.

A ecologia forense comprehende numa nova ciencia em expansÃ£o (Cunha Ramos et al., 2022, 2024a, 2024b).

REFERENCIAS

CUNHA RAMOS, Hernani Gomes da *et al.* Carcass non-recovery rate of franciscana dolphin (*Pontoporia blainvilliei*), calibrated with a drift mark-recapture study at FMA Ia, Brazil. *Latin American Journal of Aquatic Mammals*, v. 17, n. 2, p. 93–104, 2022.

CUNHA RAMOS, Hernani Gomes da *et al.* An Overview of Forensic Ecology applied for marine megafauna conservation. *Forensic Science International: Animals and Environments*, v. 5, p. 100085, a2024.

CUNHA RAMOS, Hernani Gomes da *et al.* Postmortem interval applied to cetacean carcasses: Observations from laboratory and field studies with the Abrolhos Bank Region, Brazil. *Forensic Science International: Animals and Environments*, v. 5, p. 100082, b2024.

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desejado

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Apps Todos os favoritos

About Search by name Search by example Visual editor Code editor

journal of mammalogy

Search for the name of a style, or the title of a Journal.

Displaying 2 results:

Hystrix, the Italian Journal of Mammalogy

INLINE CITATION (Mares, 2001)

Mares, I. 2001. Firms and the welfare state: When, why, and how does social policy matter to employers? In: Hall, P.A., Soskice, D.(Eds.) Varieties of capitalism. The institutional foundations of comparative advantage. Oxford University Press, New York. 184–213.

BIBLIOGRAPHY

Install Edit View style

Outra

Journal of Mammalogy

INLINE CITATION (Mares 2001)

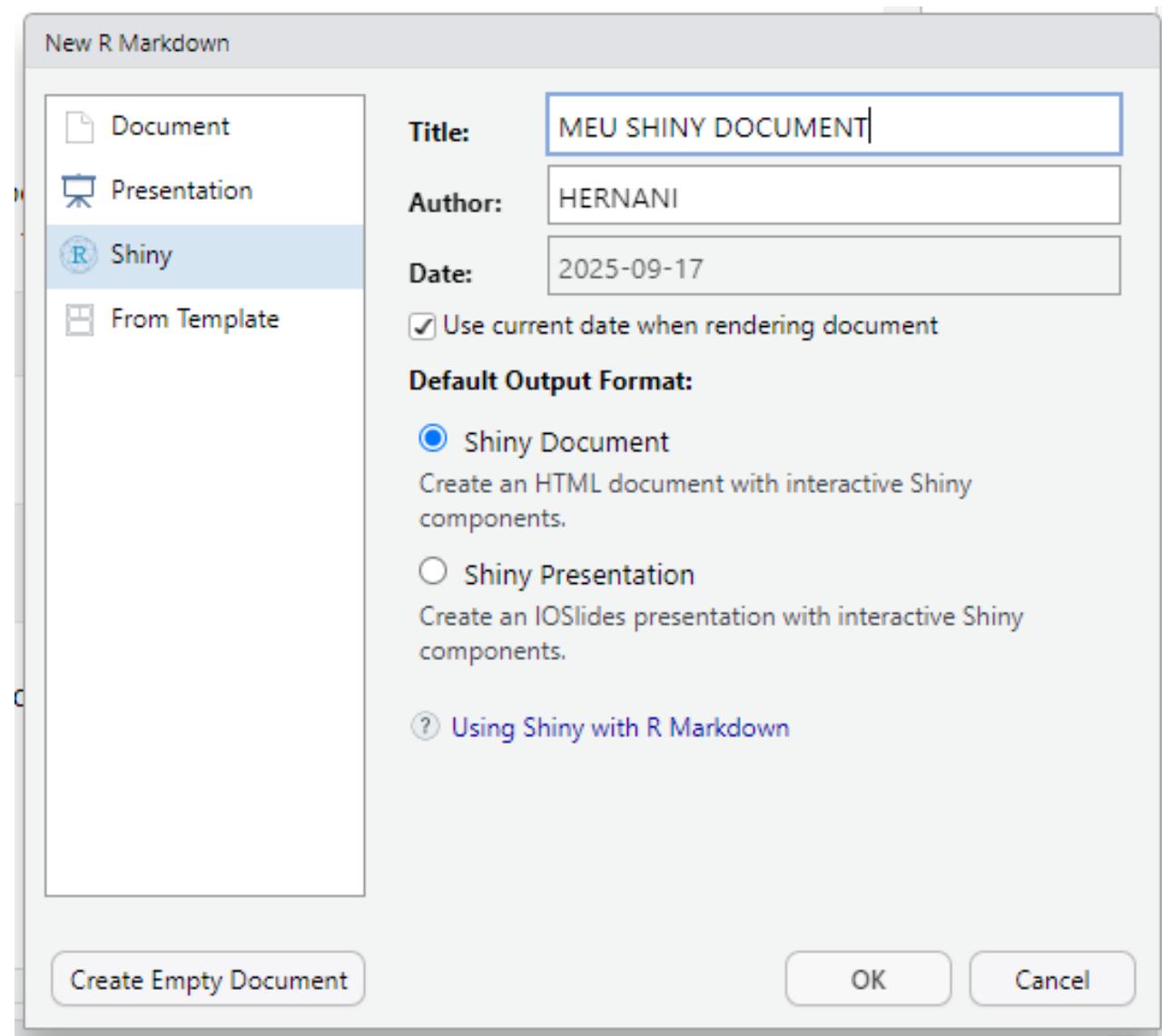
Mares, I. 2001. Firms and the welfare state: When, why, and how does social policy matter to employers? Pp. 184–213 in Varieties of capitalism. The institutional foundations of comparative advantage (P. A. Hall & D. Soskice, eds.). Oxford University Press, New York.

BIBLIOGRAPHY

Install Edit View style

Etapa:

- Montar um SHINY DOC





Etapa:

- Montar um SHINY DOC

The screenshot shows the RStudio interface with an R Markdown document open. The code editor displays the following content:

```
1 ---  
2 title: "MEU SHINY DOCUMENT"  
3 author: "HERNANI"  
4 date: `r Sys.Date()`  
5 output: html_document  
6 runtime: shiny  
7 ---  
8  
9 ```{r setup, include=FALSE}  
10 knitr:::opts_chunk$set(echo = TRUE)  
11 ```  
12  
13 This R Markdown document is made interactive using shiny.  
Unlike the more traditional workflow of creating static  
reports, you can now create documents that allow your readers  
to change the assumptions underlying your analysis and see  
the results immediately.  
14
```

The status bar at the bottom indicates the file is titled "# MEU SHINY DOCUMENT" and is an "R Markdown" file. A tooltip "View the current document with Shiny (Ctrl+Shift+K)" is visible above the code editor area.



To learn more, see [Interactive Documents](#).

Inputs and Outputs

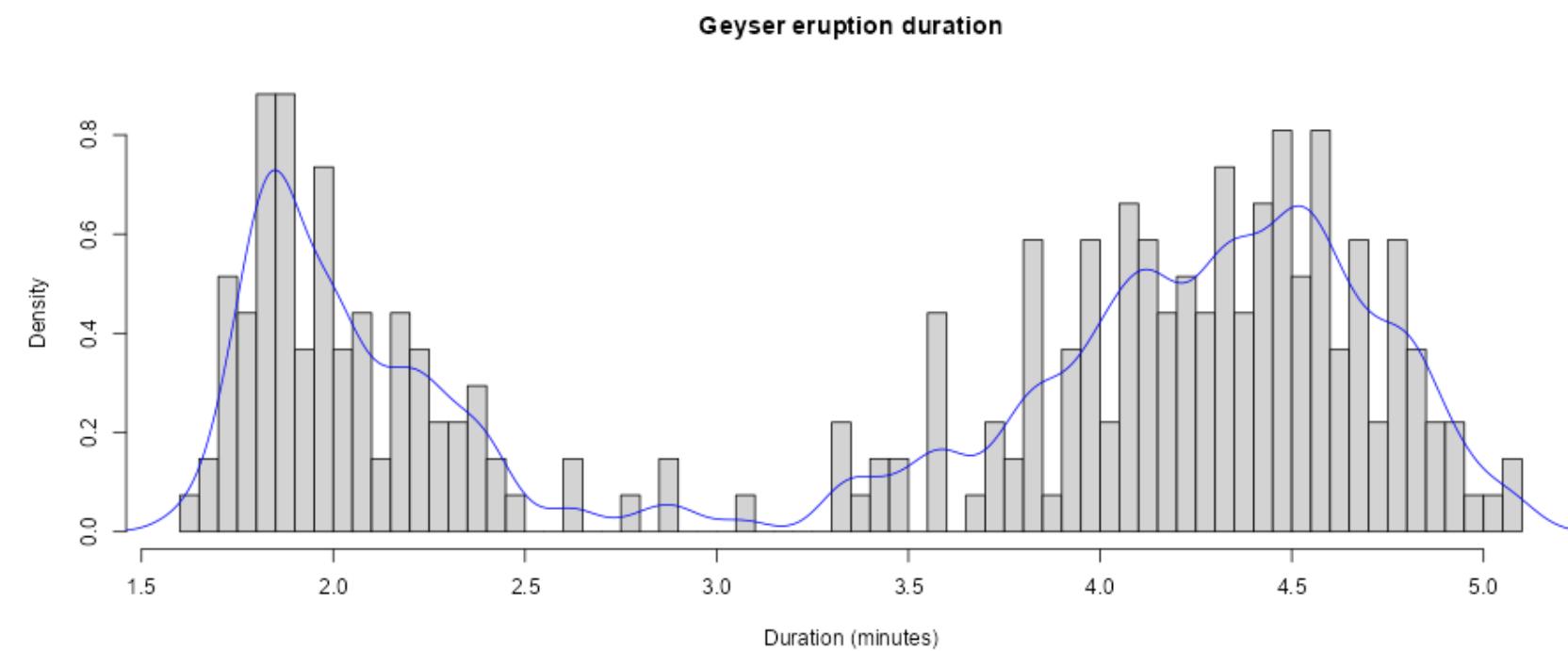
You can embed Shiny inputs and outputs in your document. Outputs are automatically updated whenever inputs change. This demonstrates how a standard R plot can be made interactive by wrapping it in the Shiny `renderPlot` function. The `selectInput` and `sliderInput` functions create the input widgets used to drive the plot.

Number of bins:

▼

Bandwidth adjustment:

0.22



Embedded Application

It's also possible to embed an entire Shiny application within an R Markdown document using the `shinyAppDir` function. This example embeds a Shiny application located in another directory:

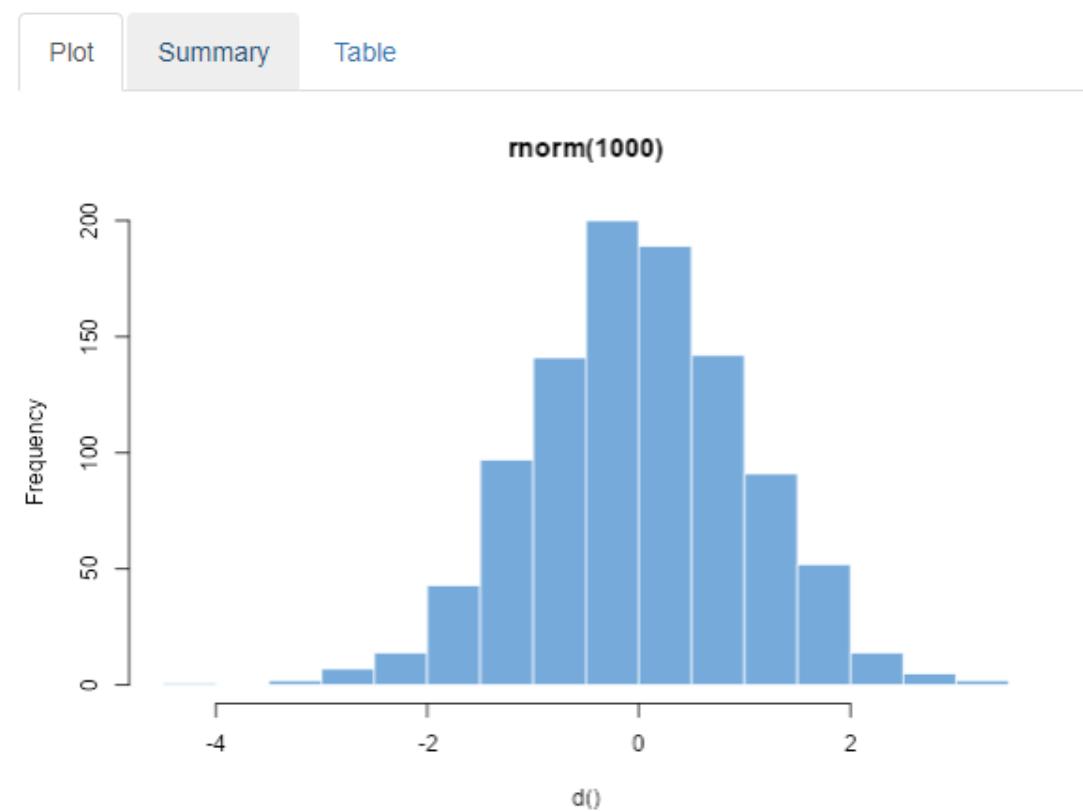
Tabssets

Distribution type:

- Normal
- Uniform
- Log-normal
- Exponential

Number of observations:

1 1,000

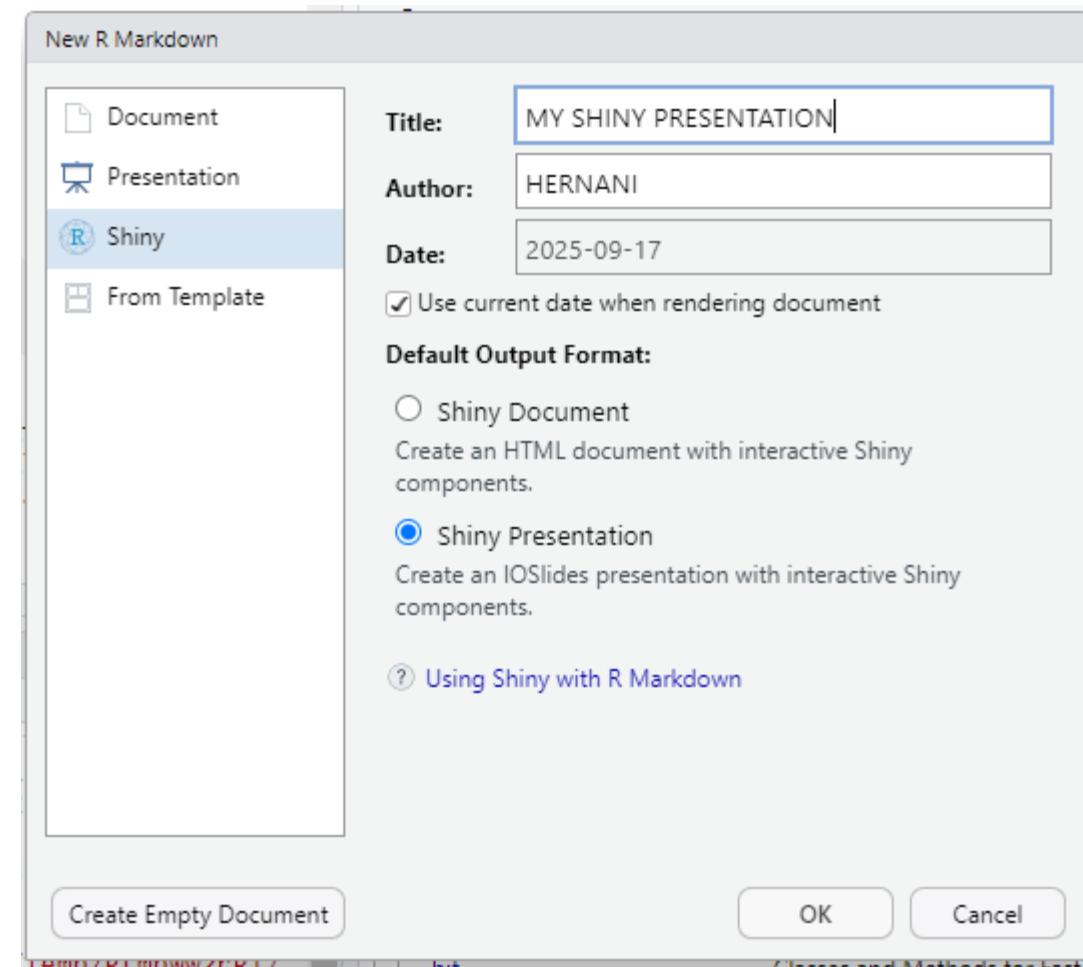


Note the use of the `width=1` parameter to determine how much vertical space the embedded application should occupy.



Etapa:

- Montar uma apresentação em formato SHINY





Interactive Plot

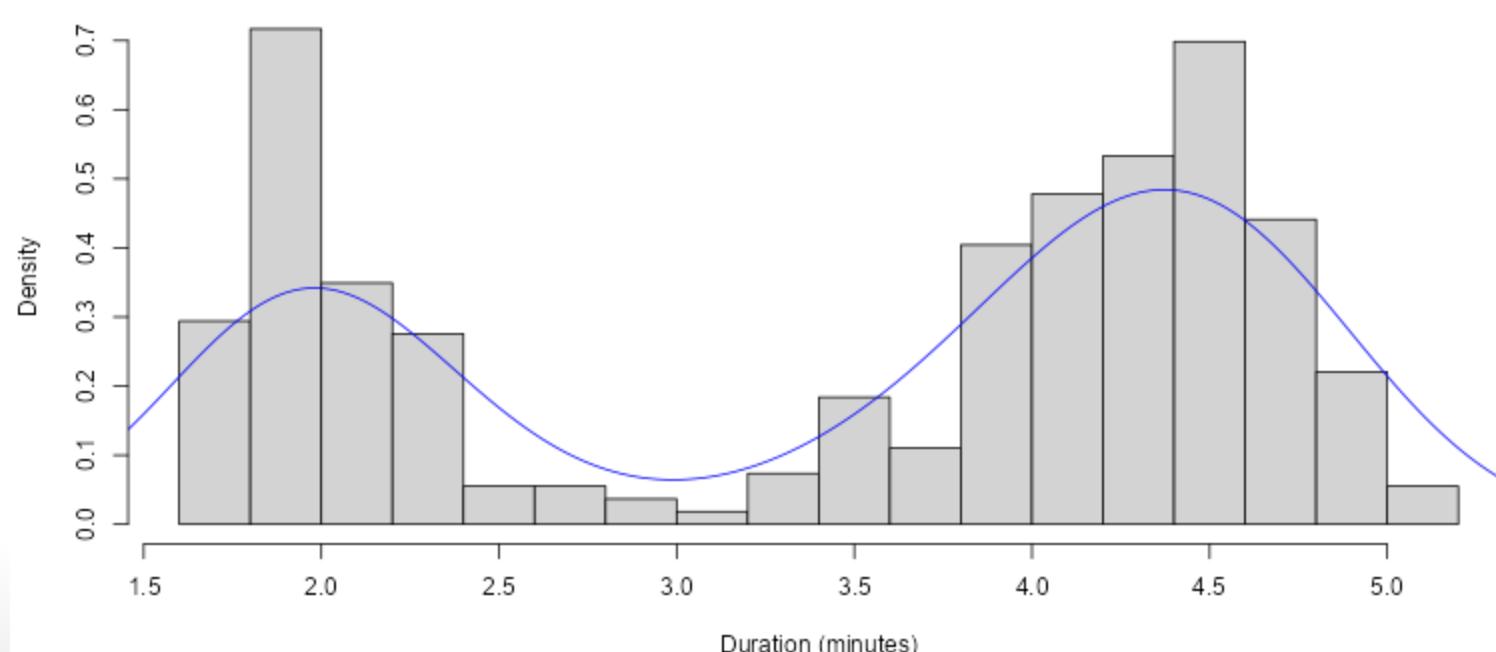
Number of bins:

20

Bandwidth adjustment:



Geyser eruption duration



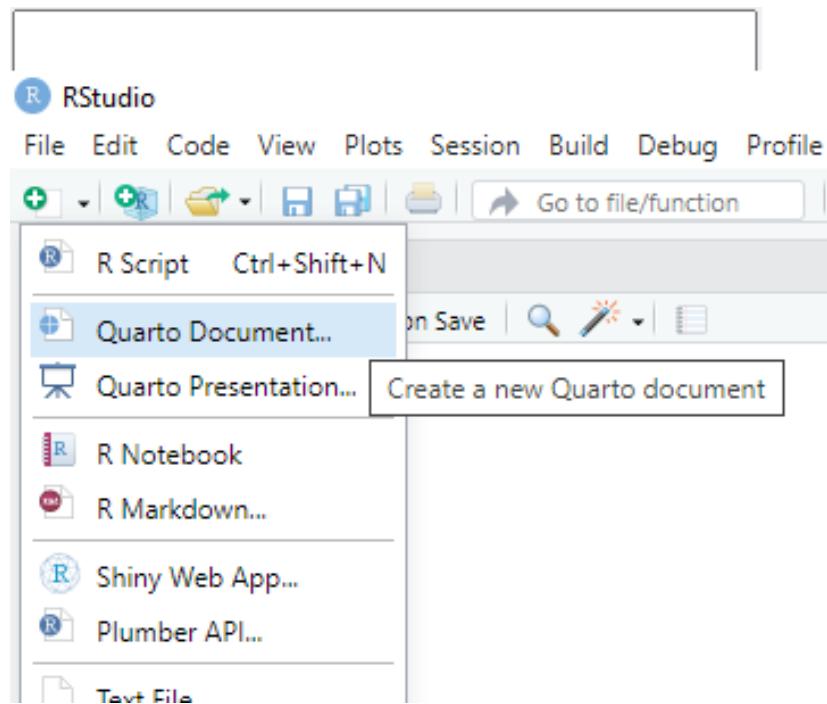
MÓDULO 5 – parte 2

FLUXO DE TRABALHO REPRODUTÍVEL COM DADOS ECOLÓGICOS EM R

Relatórios em formato Quarto

Etapa:

- Abrir Quarto Document



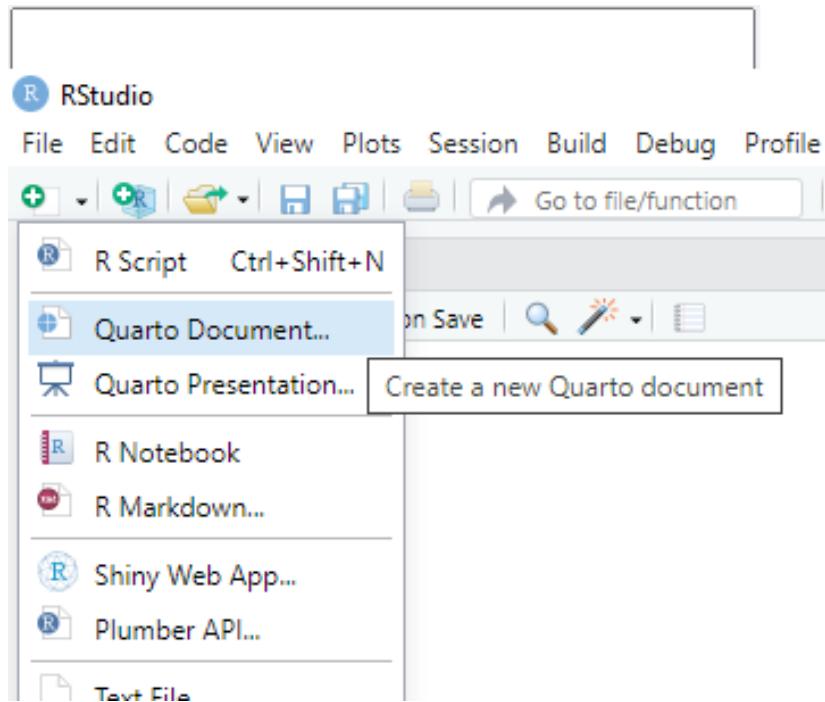
MÓDULO 5 – parte 2

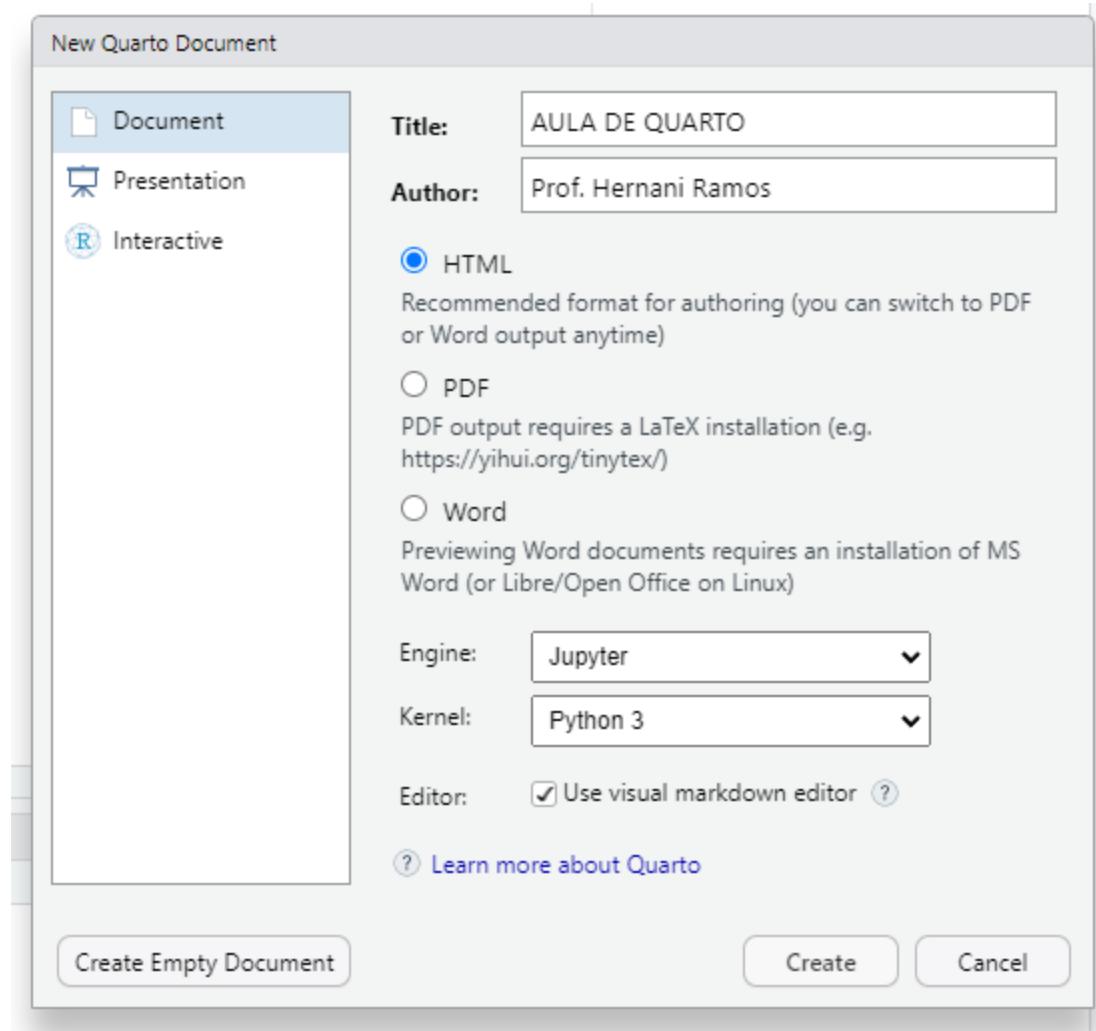
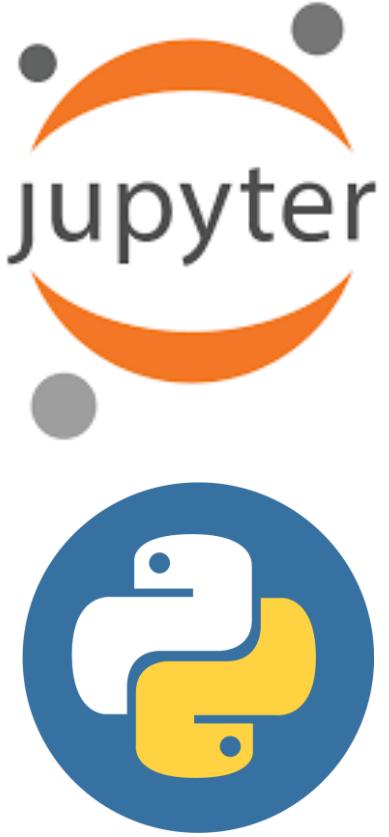
FLUXO DE TRABALHO REPRODUTÍVEL COM DADOS ECOLÓGICOS EM R

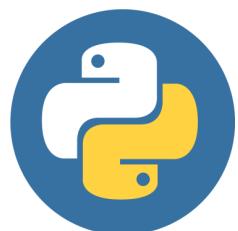
Relatórios em formato Quarto

Etapa:

- Abrir Quarto Document







RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Untitled1 x Untitled2* x Go to file/function Addins

Source Visual B I Normal Format Insert Table Outline

Render on Save Render

Quarto Running Code

```
--  
title: "AULA DE QUARTO"  
author: "Prof. Hernani Ramos"  
format: html  
editor: visual  
jupyter: python3  
---
```

Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see <https://quarto.org>.

Running Code

When you click the **Render** button a document will be generated that includes both content and the output of embedded code. You can embed code like this:

(Top Level) Quarto

Console Terminal Render Background Jobs

Python/Reticulate Dependencies 0:02

```
Installing 'reticulate' for Python/Reticulate...  
[1/3] Installing RcppTOML...
```

A blue arrow points from the text "[1/3] Installing RcppTOML..." towards the bottom of the "Running Code" section.

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

Untitled1 x quarto em python.qmd x quarto em python.qmd* Untitled2* x

Render on Save ABC Render

Source Visual B I Normal Render the current document (Ctrl+Shift+K)

Quarto Running Code

```
---  
title: "AULA DE QUARTO"  
author: "Prof. Hernani Ramos"  
format: html  
editor: visual  
jupyter: python3  
---
```

Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see <https://quarto.org>.

Running Code

When you click the **Render** button a document will be generated that includes both content and the output of embedded code. You can embed code like this:

```
{python}  
1 + 1
```

You can add options to executable code like this

```
{python}  
#| echo: false  
2 * 2
```

(Top Level) Quarto

Console

Project: (None)

Environment History Connections Tutorial

Import Dataset 315 MiB List C

R Global Environment

Data

coords_geo	num [1, 1:2]	-38.9 -14.5
coords_utm	num [1, 1:2]	511680 8399723
crs_utm	List of 2	
latlon_resu...	num [1, 1:2]	-38.9 -14.5
new_point_g...	List of 1	
new_point_u...	List of 1	
pf	List of 1	

Files Plots Packages Help Viewer Presentation

Home

Name	Size	Modified
.RData	4.7 KB	Feb 25, 2024
.Rhistory	8.8 KB	May 22, 2024
03 Diploma_Graduação_Hernani_R...	611.1 KB	Mar 19, 2024
23-07-06-Bernhart-Rices-Whale-Pe...	471.1 KB	Oct 23, 2023
CNH-e Hernani Ramos.pdf.pdf	206.7 KB	May 14, 2024
Currículo Lattes Hernani Ramos.pdf	1.4 MB	Mar 7, 2024
desktop.ini	402 B	Mar 27, 2024
Fatura Claro senha 15746.pdf	400.2 KB	May 26, 2024
Meus Vídeos		
Minhas Imagens		
Minhas Músicas		
Modelos Personalizados do Office		
Nota fiscal da prancha.pdf	448.7 KB	Apr 17, 2024
oCam		

27°C Pred. nublado POR PTB2 10:11 19/09/2025

Windows Icons

Source on Save | Run | Source | Import Dataset | 107 MIB | List | C |

PLANN | (9) Wha | Encontr | Google | python | Lion PN | Python | Google | Welcom | + | - | X |

python.org

Apps

Python PSF Docs PyPI

python-3.13.7-amd64.exe
27,5 MB • Concluir

lion.png
208 KB • 56 minutos atrás

Todos os favoritos

python™

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About Downloads Documentation Community Success Stories News Events

Python 3: Sim
>>> 1 / 2
0.5
>>> 2 ** 3
8
>>> 17 / 3 # c
5.666666666666666
>>> 17 // 3 #
5

All releases
Source code
Windows
macOS
Android
Other Platforms
License
Alternative Implementations

Download for Windows

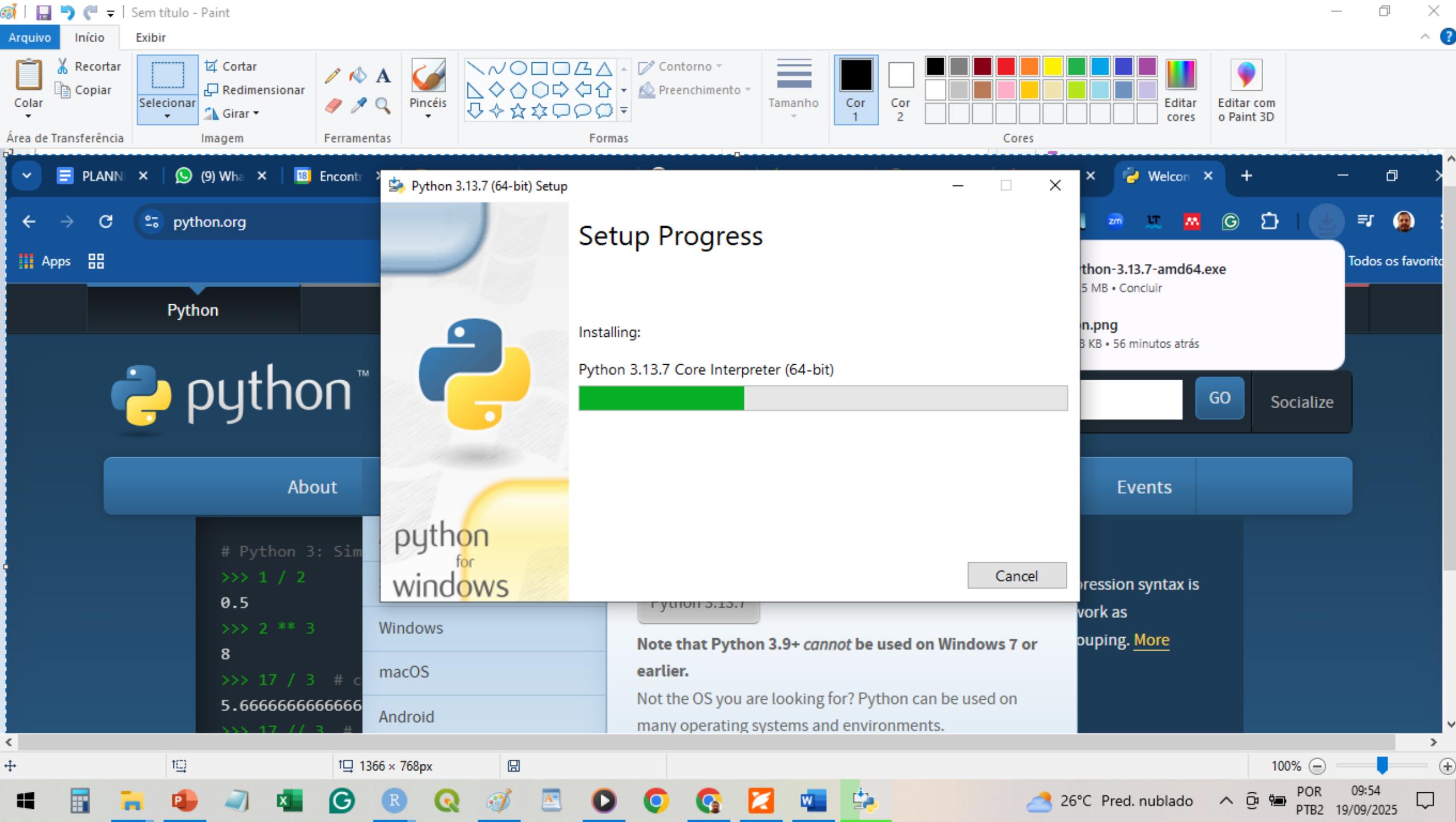
Python 3.13.7

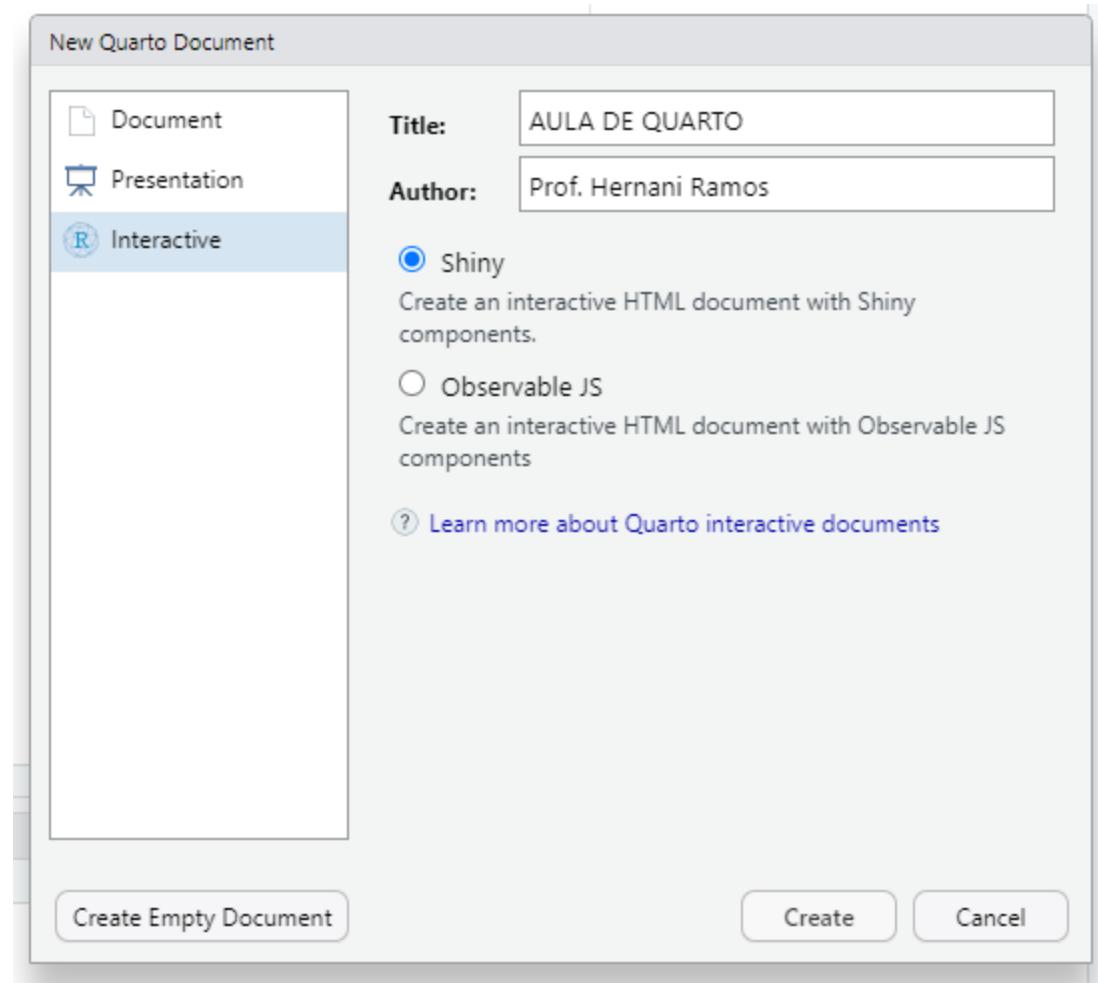
Note that Python 3.9+ cannot be used on Windows 7 or earlier.

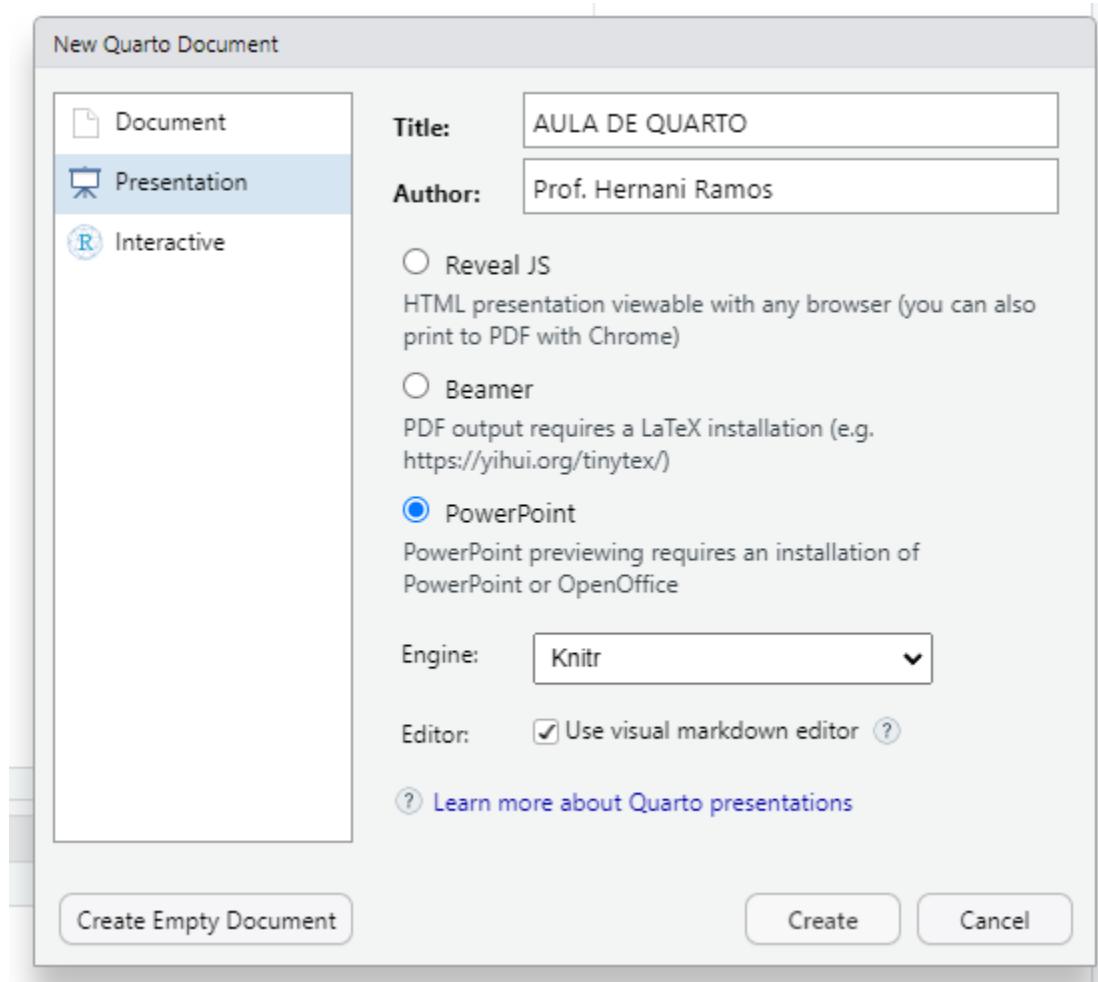
Not the OS you are looking for? Python can be used on many operating systems and environments.

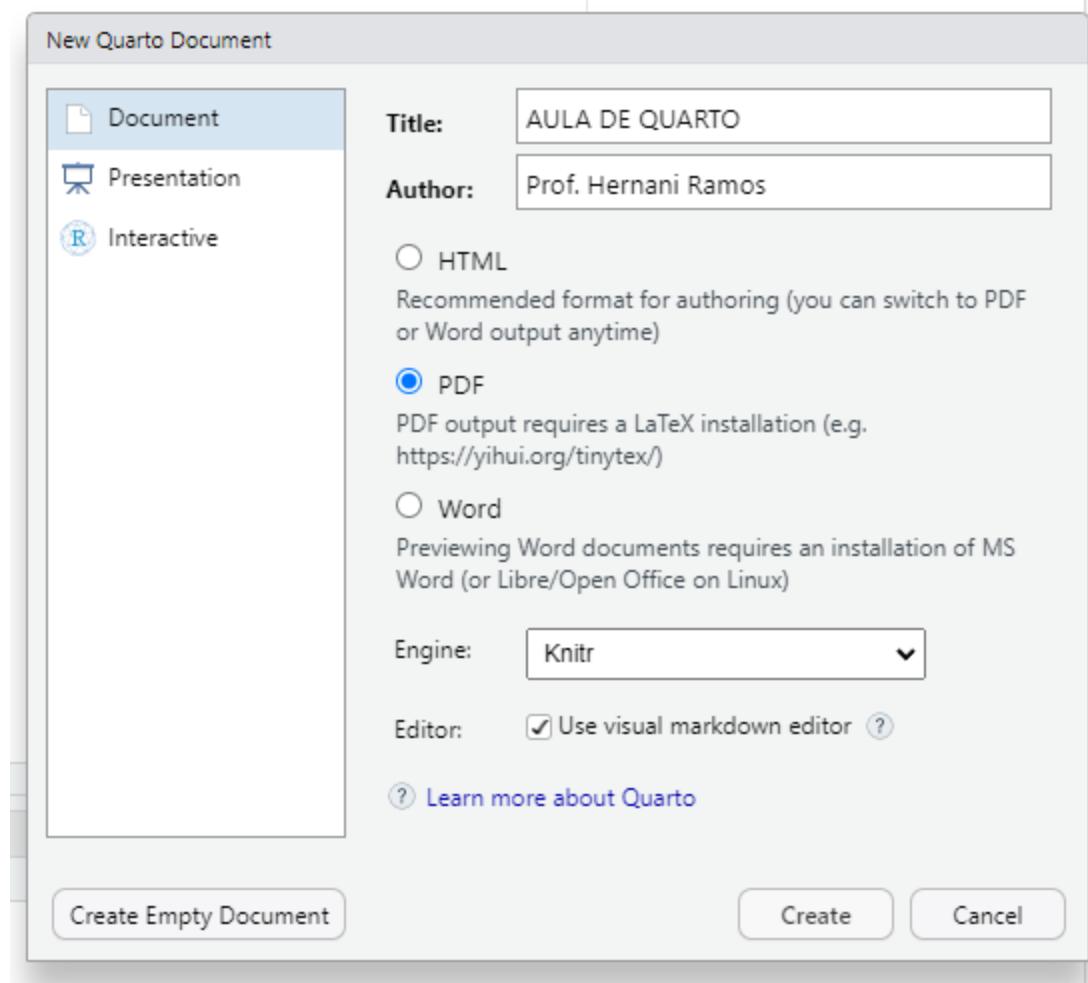
View the full list of downloads.

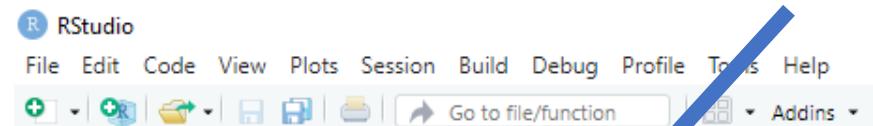
and integrate systems more effectively. [» Learn More](#)











A screenshot of an RStudio window displaying a Quarto document. The title bar says "AULA DE QUARTO.qmd". The toolbar has a "Render" button highlighted with a blue arrow. A tooltip for the "Render" button says "Render the current document (Ctrl+Shift+K)". The main pane shows the following YAML front matter:

```
---
```

```
title: "AULA DE QUARTO"
format: html
editor: visual
```

```
---
```

Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see <https://quarto.org>.

Running Code

When you click the **Render** button a document will be generated that includes both content and the output of embedded code. You can embed code like this:

```
{r}
1 + 1
```

You can add options to executable code like this

```
{r}
#| echo: false
2 * 2
```



AULA DE QUARTO

localhost:7858

Apps

AULA DE QUARTO

Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see <https://quarto.org>.

Running Code

When you click the **Render** button a document will be generated that includes both content and the output of embedded code. You can embed code like this:

```
1 + 1
```

```
[1] 2
```

You can add options to executable code like this

```
[1] 4
```

The `print = FALSE` option disables the printing of code (only output is displayed)



RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

AULA_DE_QUARTO.qmd

Source Visual B I Normal Format Ins

```
---  
title: "AULA DE QUARTO"  
format: pdf  
editor: visual  
---
```

Quarto

Quarto enables you to weave together content and executable code more about Quarto see <https://quarto.org>.

Running Code

When you click the **Render** button a document will be generated that output of embedded code. You can embed code like this:

```
{r}  
1 + 1
```

(Top Level) ▾

Console Terminal × Render × Background Jobs ×

R 4.3.0 ~/ ↗>

localhost AULA DE QUARTO - AULA_D

localhost:7595/... New zm

1 de 1

AULA_DE_QUARTO.pdf 14,1 KB • Concluir Baixar

AULA DE QUARTO

Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see <https://quarto.org>.

Running Code

When you click the **Render** button a document will be generated that includes both content and the output of embedded code. You can embed code like this:

```
1 + 1
```

[1] 2

You can add options to executable code like this

```
[1] 4
```

Project: (None)

Tutorial

MiB List C

-38.9 -14.5 511680 8399723

-38.9 -14.5

ower Presentation C

Size Modified

4.7 KB	Feb 25, 2023
8.8 KB	May 22, 2023
611.1 KB	Mar 19, 2023
471.1 KB	Oct 23, 2022
206.7 KB	May 14, 2023
1.4 MB	Mar 7, 2023
402 B	Mar 27, 2023
400.2 KB	May 26, 2023
448.7 KB	Apr 17, 2023

10:43

UNHH34 +1.03% POR PTB2 19/09/2025

oCam



Go to file/function



Addins

AULA_DE_QUARTO.qmd*

Render on Save



ABC



Render



Format



Insert



Table



Source

Visual



Figure / Image... (Ctrl+Shift+I)

Quarto



Quarto enables you to weave together content and code. When you click the **Render** button a document will be generated that includes both content and the output of embedded code. You can embed code like this:

{r}
1 + 1

You can add options to executable code like this

{r}
Quarto

Console



EXERCÍCIO: MONTAR RELATÓRIO QUARTO EM PDF

MÓDULO 5 – Parte III

FLUXO DE TRABALHO REPRODUTÍVEL COM DADOS ECOLÓGICOS EM R

POSIT CLOUD



 posit Cloud

Reminder: The ability to publish applications and documents to Posit Cloud has been deprecated. That functionality will be removed for all users by the end of July.

posit.cloud

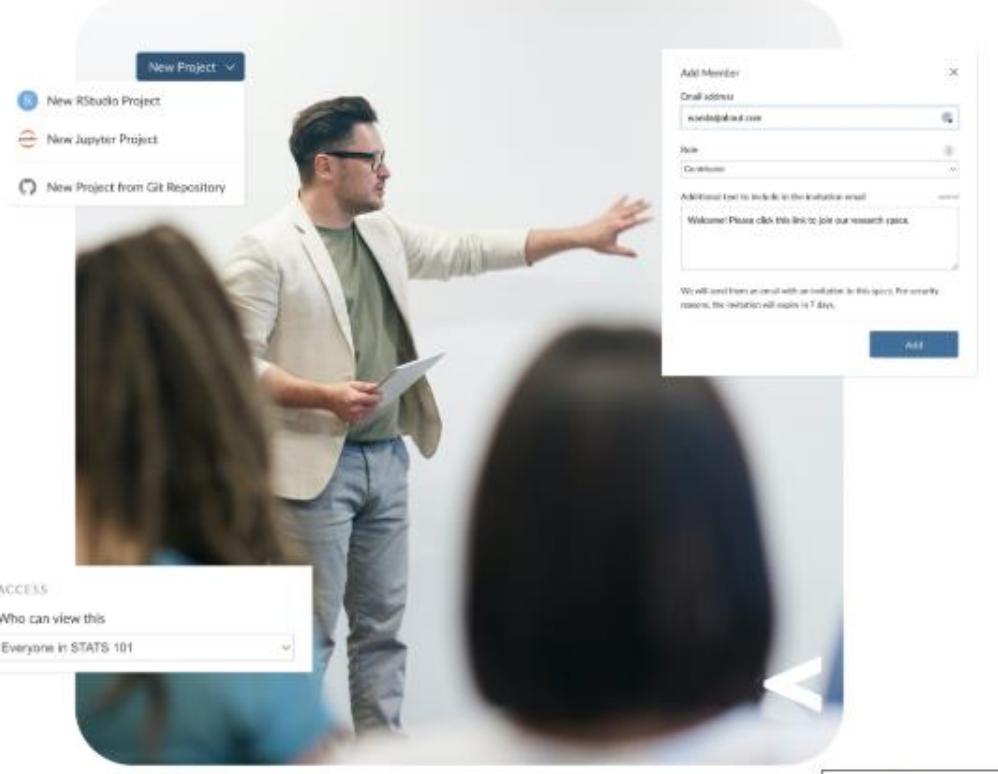
posit Cloud

Log In **Sign Up**

Friction free data science

Posit Cloud lets you access Posit's powerful set of data science tools right in your browser – no installation or complex configuration required.

GET STARTED **ALREADY A USER? LOG IN**



A blue arrow points from the top left towards the 'posit.cloud' tab in the browser bar. Another blue arrow points from the top right towards the 'Sign Up' button on the page.

ACCESS
Who can view this
Everyone in STATS 101

New Project ▾
New RStudio Project
New Jupyter Project
New Project from Git Repository

Add Member
Email address:
Role:
Additional text to include in the invitation email:
Welcome! Please click this link to join our research space.
We will send them an email with an invite in this space. For security reasons, the invitation will expire in 7 days.

Notificações novas

uv UV muito alto

POR PTB2 13:41 15/09/2025

[Guide](#)[What's New](#)[Recipes](#)[Cheatsheets](#)[Log In](#)[Sign Up](#)

Posit Recipes

Some tasty R code snippets

R Basics

Do basic tasks with R, like import data and call functions.

- [Read a CSV file \(.csv\)](#)
- [Read a character-delimited file \(.txt\)](#)
- [Read an Excel file \(.xls, .xlsx\)](#)
- [Arithmetic with single numbers](#)
- [Call a function on a number](#)
- [Obey R's naming rules](#)
- [Run a function](#)

Transform Tables

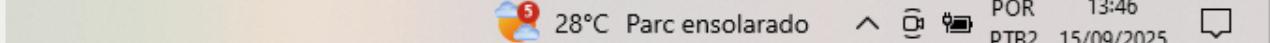
Do things like filter, sort, and pivot your tables of data.

- [Extract columns from a table as a new table](#)
- [Rename columns in a table](#)
- [Add a column to a table and compute its values](#)
- [Compute summary statistics for a table](#)
- [Compute summary statistics for groups of rows within a table](#)

Visualize Data

Plot your data in various ways.

- [Visualize two vectors using a scatterplot](#)
- [Visualize data with a scatterplot](#)
- [Visualize counts with a bar chart](#)
- [Visualize grouped counts with a stacked bar chart](#)
- [Visualize a distribution with a histogram](#)
- [Visualize ordered continuous data](#)



Reminder: The ability to publish applications and documents to Posit Cloud has been **deprecated**. That functionality will be removed for all users by the end of July.

Cloud					Cloud	Cloud	Cloud	Cloud
All Plans	Free	Basic	Standard	Instructor	Student	Instructor	Student	Student
	Cloud Free	Cloud Basic	Cloud Standard	Cloud Instructor	Cloud Student			
	\$0 / forever	\$25 / month	\$75 / month	\$15 / month	\$5 / month			
	Learn more	Learn more	Learn more	Learn more	Learn more			
SHARED SPACES	1 (with member & project limits)	Unlimited	Unlimited	Unlimited	1 (with member & project limits)			
PROJECTS	25	Unlimited	Unlimited	Unlimited	25			
COMPUTE HOURS	25 hours per month	150 hours included per month additional @ 10¢ per hour	500 hours included per month additional @ 10¢ per hour	300 hours included per month additional @ 10¢ per hour	75 hours included per month additional @ 10¢ per hour	Unlimited hours with a fixed price per user plans are also		



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Sign Up



Sign up

or

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Reminder: The ability to publish applications and documents to Posit Cloud has been **deprecated**. That functionality will be removed for all users by the end of July.

Your Workspace / FLUXO DE TRABALHO REPRODUTÍVEL

R version 4.4.2 (2024-10-31) -- "Pile of Leaves"
Copyright (C) 2024 The R Foundation for Statistical Computing
Platform: x86_64-pc-linux-gnu

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

Session restored from your saved work on 2024-Dec-18 19:18:04 UTC (270 days ago)
R version change [4.4.2 -> 4.4.3] detected when restoring session; search path not restored
>

Environment is empty

Cloud > project

uv UV muito alto POR PTB2 14:09 15/09/2025

Reminder: The ability to publish applications and documents to Posit Cloud has been **deprecated**. That functionality will be removed for all users by the end of July.

Your Workspace / FLUXO DE TRABALHO REPRODUTÍVEL

RAM Prof. Hernani Ramos

File Edit Code View Plots Session Build Debug Profile Tools Help

Addins

R Script Ctrl+Alt+Shift+N

Quarto Document...

Quarto Presentation...

R Notebook

R Markdown... Create a new R Markdown document ANTY. Distribute it under certain conditions. See ?rmarkdown::pandoc() for distribution details.

Shiny Web App...

Plumber API...

Text File

C++ File

Python Script

SQL Script

Stan File

D3 Script

R Sweave

R HTML

R Documentation...

Environment History Connections Tutorial

Import Dataset 206 MiB 206 MiB Global Environment

Environment is empty

Files Plots Packages Help Viewer Presentation

New Folder New File Upload Delete Rename More

Cloud > project

Name	Size	Modified
..	0 B	Dec 18, 2024, 4:09 PM
.Rhistory	0 B	Dec 18, 2024, 4:09 PM
project.Rproj	205 B	Sep 15, 2025, 2:06 PM

Atividade econômica... 14:09
PTB2 15/09/2025

Reminder: The ability to publish applications and documents to Posit Cloud has been **deprecated**. That functionality will be removed for all users by the end of July.

Your Workspace / FLUXO DE TRABALHO REPRODUTÍVEL

File Edit Code View Plots Session Build Debug Profile Tools Help

Untitled1 x Go to file/function Addins

Source Visual

```
1 ---  
2 title: "Aula sobre relatório em Rmarkdown"  
3 author: "Prof. Hernani Ramos"  
4 date: `r Sys.Date()`  
5 output: html_document  
6 ---  
7  
8 ````{r setup, include=FALSE}  
9 knitr::opts_chunk$set(echo = TRUE)  
2:1 # Aula sobre relatório em Rmarkdown
```

Console Terminal Background Jobs

R 4.4.3 /cloud/project/

```
R version 4.4.2 (2024-10-31) -- "Pile of Leaves"  
Copyright (C) 2024 The R Foundation for Statistical Computing  
Platform: x86_64-pc-linux-gnu  
  
R is free software and comes with ABSOLUTELY NO WARRANTY.  
You are welcome to redistribute it under certain conditions.  
Type 'license()' or 'licence()' for distribution details.
```

Environment History Connections Tutorials

Import Dataset 284 MiB

Global Environment

Files Plots Packages Help Viewer

New Folder New File Upload

Cloud > project

Name .Rhistory project.Rproj

Info Access Resources System

GENERAL ACCESS

All Posit Cloud Users Private All Posit Cloud Users

2 mm de chuva Qui. POR PTB2 14:14 15/09/2025

Reminder: The ability to publish applications and documents to Posit Cloud has been **deprecated**. That functionality will be removed for all users by the end of July.

Your Workspace / FLUXO DE TRABALHO REPRODUTÍVEL

File Edit Code View Plots Session Build Debug Profile Tools Help

Aula_RMarkdown.Rmd x

```
1 ---  
2 title: "Aula sobre relatório em Rmarkdown"  
3 author: "Prof. Hernani Ramos"  
4 date: `r Sys.Date()`  
5 output: html_document  
6 ---  
7  
8 ```{r setup, include=FALSE}  
9 knitr::opts_chunk$set(echo = TRUE)  
10```
```

16:205 # R Markdown

Console Terminal Background Jobs

R version 4.4.2 (2024-10-31) -- "Pile of Leaves"
Copyright (C) 2024 The R Foundation for Statistical Computing
Platform: x86_64-pc-linux-gnu

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Type 'license()' or 'licence()' for distribution details.

sempre subir arquivos
em formato zipado

RAM Prof. Hernani Ramos

Environment History Connections Tutorial

Import Dataset 285 MiB List C

Global Environment

Environment is empty

Files Plots Packages Help Viewer Presentation

Folder File Upload Delete Rename

Cloud > project

Name	Size	Modified
.Rhistory	0 B	Dec 18, 2024, 4:09 PM
project.Rproj	205 B	Sep 15, 2025, 2:06 PM
Aula_RMarkdown.Rmd	875 B	Sep 15, 2025, 2:18 PM

29°C Pred ensolarado POR PTB2 14:18 15/09/2025



PhD. Hernani G. da Cunha Ramos Veterinary & Ecologist

Forensic Ecology Group Applied to Conservation
International Society for Animal Forensic Sciences

Postdoctoral fellow at UESC/LEAC
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