

RStudio interface showing a script named `soovz.rmd` and the Environment pane.

**Source**

```
14 names<-c("rishu","vishal")
15 library(tidyverse)
16 view(msleep)
17
18 sum(a+b)
19
20 x <- 154
21 y <- 200
22 z <- 300
23
24 sum(x+y+z)
25 typeof(y)
26 name= "rishu"
27 typeof(name)
28
29
```

**Console**

```
R 4.2.1 ~\...
> names
[1] "rishu"
> x
[1] 154
> y
[1] 200
> z
[1] 300
> sum(x+y+z)
[1] 654
> typeof(y)
[1] "double"
> name= "rishu"
> typeof(name)
[1] "character"
>
```

**Environment**

Object	Class	Value
a	num [1:2]	5 6
ages	num [1:2]	5 6
b	num	7
my_packages	chr [1:24]	"tidyverse" "broom" "coefplot" "cowp..."
name	chr	"rishu"
x	num	154
y	num	200
z	num	300

**Files**

Name	Description	Version
<input type="checkbox"/> abind	Combine Multidimensional Arrays	1.4-5
<input type="checkbox"/> arm	Data Analysis Using Regression and Multilevel/Hierarchical Models	1.13-1
<input type="checkbox"/> askpass	Safe Password Entry for R, Git, and SSH	1.1
<input type="checkbox"/> assertthat	Easy Pre and Post Assertions	0.2.1
<input type="checkbox"/> backports	Reimplementations of Functions Introduced Since R-3.0.0	1.4.1
<input checked="" type="checkbox"/> base	The R Base Package	4.2.1
<input type="checkbox"/> base64enc	Tools for base64 encoding	0.1-3
<input type="checkbox"/> bit	Classes and Methods for Fast Memory-Efficient Boolean Selections	4.0.4
<input type="checkbox"/> bit64	A S3 Class for Vectors of 64bit Integers	4.0.5
<input type="checkbox"/> blob	A Simple S3 Class for Representing Vectors of Binary Data ('BLOBS')	1.2.3
<input type="checkbox"/> boot	Bootstrap Functions (Originally by Angelo Canty for S)	1.3-28
<input type="checkbox"/> brew	Templating Framework for Report Generation	1.0-7

RStudio interface showing a script named `soovz.rmd` and the Environment pane.

**Source**

```
28 formul=21+22
29 typeof(formul)
30 pass=false
31 typeof(pass)
32 library(tidyverse)
33 data()
34 view(msleep)
35 min(msleep$awake)
36 max(msleep$awake)
37 range(msleep$awake)
38 IQR(msleep$awake)
39 mean(msleep$awake)
40 median(msleep$awake)
41 var(msleep$awake)
42
43
```

**Console**

```
R 4.2.1 ~\...
> max(msleep$awake)
[1] 22.1
> range(msleep$awake)
[1] 4.1 22.1
> IQR(msleep$awake)
[1] 5.9
> mean(msleep$awake)
[1] 13.56747
> median(msleep$awake)
[1] 13.9
> var(msleep$awake)
[1] 19.82106
>
```

**Environment**

Object	Class	Value
ages	num [1:2]	5 6
b	num	7
formul	num	22+21
my_packages	chr [1:24]	"tidyverse" "broom" "coefplot" "cowp..."
name	chr	"rishu"
x	num	154
y	num	200
z	num	300

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<input type="checkbox"/> brew	Templating Framework for Report Generation	1.0-7

RStudio interface showing a script named `msleep.Rmd` with the following code:

```
31 typeof(pass)
32 library(tidyverse)
33 data()
34 view(msleep)
35 min(msleep$awake)
36 max(msleep$awake)
37 range(msleep$awake)
38 IQR(msleep$awake)
39 mean(msleep$awake)
40 median(msleep$awake)
41 var(msleep$awake)
42 summarise(selected variables)
43
44 summary(msleep)
45
46
```

The console output shows summary statistics for `msleep`:

```
R 4.2.1 ~
      mean      3rd Qu.      Max.
      11.075    13.75      19.90
      NA's :22
      awake      brainwt      bodywt
      Min. : 4.10   Min. : 0.00014   Min. : 0.005
      1st Qu.:10.25 1st Qu.: 0.00290   1st Qu.: 0.174
      Median :13.90 Median : 0.01240   Median : 1.670
      Mean   :13.57 Mean   : 0.28158   Mean   :166.136
      3rd Qu.:16.15 3rd Qu.: 0.12550   3rd Qu.: 41.750
      Max.   :22.10 Max.   : 5.71200   Max.   :6654.000
      NA's :27
```

The Environment pane shows the Global Environment with variables:

Variable	Value
<code>pass</code>	<code>NULL [1:2]</code>
<code>b</code>	<code>7</code>
<code>formul</code>	<code>22+21</code>
<code>my_packages</code>	<code>chr [1:24] "tidyverse" "broom" "coefplot" "cowp..."</code>
<code>name</code>	<code>"rishi"</code>
<code>x</code>	<code>154</code>
<code>y</code>	<code>200</code>
<code>z</code>	<code>300</code>

The Packages pane shows the System Library with the following packages installed:

Package	Description	Version
<code>abind</code>	Combine Multidimensional Arrays	1.4-5
<code>arm</code>	Data Analysis Using Regression and Multilevel/Hierarchical Models	1.13-1
<code>askpass</code>	Safe Password Entry for R, Git, and SSH	1.1
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<code>boot</code>	Bootstrap Functions (Originally by Angelo Canty for S)	1.3-28
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RStudio interface showing a script named `msleep.Rmd` with the following code:

```
32 library(tidyverse)
33 data()
34 view(msleep)
35 min(msleep$awake)
36 max(msleep$awake)
37 range(msleep$awake)
38 IQR(msleep$awake)
39 mean(msleep$awake)
40 median(msleep$awake)
41 var(msleep$awake)
42 summarise(selected variables)
43
44 summary(msleep)
45 summary(msleep$sleep_total)
46
47
```

The console output shows summary statistics for `msleep` and `msleep$sleep_total`:

```
R 4.2.1 ~
      awake      brainwt      bodywt
      Min. : 4.10   Min. : 0.00014   Min. : 0.005
      1st Qu.:10.25 1st Qu.: 0.00290   1st Qu.: 0.174
      Median :13.90 Median : 0.01240   Median : 1.670
      Mean   :13.57 Mean   : 0.28158   Mean   :166.136
      3rd Qu.:16.15 3rd Qu.: 0.12550   3rd Qu.: 41.750
      Max.   :22.10 Max.   : 5.71200   Max.   :6654.000
      NA's :27
> summary(msleep$sleep_total)
      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
      1.90   7.85   10.10   10.43   13.75   19.90
```

The Environment pane shows the Global Environment with variables:

Variable	Value
<code>pass</code>	<code>NULL [1:2]</code>
<code>b</code>	<code>7</code>
<code>formul</code>	<code>22+21</code>
<code>my_packages</code>	<code>chr [1:24] "tidyverse" "broom" "coefplot" "cowp..."</code>
<code>name</code>	<code>"rishi"</code>
<code>x</code>	<code>154</code>
<code>y</code>	<code>200</code>
<code>z</code>	<code>300</code>

The Packages pane shows the System Library with the following packages installed:

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<code>boot</code>	Bootstrap Functions (Originally by Angelo Canty for S)	1.3-28
<code>brew</code>	Templating Framework for Report Generation	1.0-7

RStudio

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Go to file/function Addins

Project: (None)

Environment History Connections Tutorial

R - Global Environment

Variable	Value
b	7
formul	22+21
my_packages	chr [1:24] "tidyverse" "broom" "coefplot" "cowp..."
name	"rishi"
x	154
y	200
z	300

Files Plots Packages Help Viewer Presentation

Install Update

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<input type="checkbox"/> abind	Combine Multidimensional Arrays	1.4-5
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msleep

name	genus	vore	order	conservation	sleep_total	sleep_rem
1 Cheetah	Acinonyx	carni	Carnivora	lc	12.1	
2 Owl monkey	Aotus	omni	Primates	NA	17.0	
3 Mountain beaver	Aplodontia	herbi	Rodentia	nt	14.4	
4 Greater short-tailed shrew	Blarina	omni	Soricomorpha	lc	14.9	
5 Cow	Bos	herbi	Artiodactyla	domesticated	4.0	
6 Three-toed sloth	Bradypus	herbi	Pilosa	NA	14.4	
7 Northern fur seal	Callorhinus	carni	Carnivora	vu	8.7	
8 Vesper mouse	Calomys	NA	Rodentia	NA	7.0	
9 Dog	Canis	carni	Carnivora	domesticated	10.1	
10 Boa constrictor	Constrictor	herbi	Artiodactyla	lc	3.0	

Showing 1 to 10 of 83 entries, 11 total columns

Console Terminal Background Jobs

```
R 4.2.1 ~
> library(tidyverse)
Attaching packages:
  ggplot2 3.3.6      purrr 0.3.4
  tidbale 3.1.3      dplyr 1.0.10
  tidy 1.2.0         stringr 1.4.1
  readr 2.1.2        forcats 0.5.2
tidyverse_conflicts()
X dplyr::filter() masks stats::filter()
X dplyr::lag() masks stats::lag()
> view(msleep)
>
```

82°F Sunny 1:15 PM 9/10/2022

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

Project: (None)

Environment History Connections Tutorial

R - Global Environment

Variable	Value
b	7
formul	22+21
my_packages	chr [1:24] "tidyverse" "broom" "coefplot" "cowp..."
name	"rishi"
x	154
y	200
z	300

Files Plots Packages Help Viewer Presentation

Zoom Export

msleep

```
13
14 msleep %>%
15   select(sleep_total, brainwt) %>%
16   summary
17
18 msleep %>%
19   drop_na(vore) %>%
20   group_by(vore) %>%
21   summarise(Lower = min(sleep_total),
22             Average = mean(sleep_total),
23             Upper = max(sleep_total),
24             Difference =
25               max(sleep_total) - min(sleep_total) %>%
26             Arrange(average) %>%
27             view()
28
```

28:1 (Top Level) R Markdown

Console Terminal Background Jobs

```
R 4.2.1 ~
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.

[Workspace loaded from ~/.RData]
```

73°F Mostly cloudy 10:35 AM 9/11/2022

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins Project: (None)

sooviz\_rmd msleep Untitled1 anscombe\_quadrant (1).R

```

1 #creating contingency tables
2 library(MASS)
3 attach(Cars93)
4
5 glimpse(Cars93)
6
7 table(AirBags)
8 table(AirBags, Origin)
9 addmargins(table(AirBags, Origin))
10
11 table(AirBags, Origin)
12 prop.table(table(AirBags, Origin), 2) * 100

```

12:41 (Top Level) R Script

Console Terminal Background Jobs

```

R 4.2.1 ~
AirBags      Origin
Driver & Passenger 9      7
Driver only      23     20
None             16     18
> addmargins(table(AirBags, Origin))
AirBags      Origin
Driver & Passenger 9      7 16
Driver only      23     20 43
None             16     18 34
Sum              48     45 93
>

```

Environment History Connections Tutorial

R - Global Environment

Variable	Value
b	7
formul	22+21
my_packages	chr [1:24] "tidyverse" "broom" "coefplot" "cowp..."
name	"rishi"
x	154
y	200
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Files Plots Packages Help Viewer Presentation

Install Update

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76°F Cloudy 11:09 AM 9/11/2022

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins Project: (None)

sooviz\_rmd msleep Untitled1 anscombe\_quadrant (1).R

```

1 #creating contingency tables
2 library(MASS)
3 attach(Cars93)
4
5 glimpse(Cars93)
6
7 table(AirBags)
8 table(AirBags, Origin)
9 addmargins(table(AirBags, Origin))
10
11 table(AirBags, Origin)
12 prop.table(table(AirBags, Origin), 2) * 100
13 round(prop.table(table(AirBags, Origin), 2) * 100)
14
15 Cars93 %>%
16   group_by(Origin, AirBags) %>%
17   summarise(number=n()) %>%
18   pivot_wider(names_from=Origin, values_from=number)
19
20 #creating contingency tables
21 library(MASS)
22 attach(Cars93)
23
24 glimpse(Cars93)
25
26 table(AirBags)
27 table(AirBags, Origin)
28 addmargins(table(AirBags, Origin))
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30 table(AirBags, Origin)
31 prop.table(table(AirBags, Origin), 2) * 100
32 round(prop.table(table(AirBags, Origin), 2) * 100)
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183 prop.table(table(AirBags, Origin), 2) * 100
184 round(prop.table(table(AirBags, Origin), 2) * 100)
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186 Cars93 %>%
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195 glimpse(Cars93)
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name	"rishi"
x	154
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Name	Description	Version
<input type="checkbox"/> abind	Combine Multidimensional Arrays	1.4-5
<input type="checkbox"/> arm	Data Analysis Using Regression and Multilevel/Hierarchical Models	1.13-1
<input type="checkbox"/> askpass	Safe Password Entry for R, Git, and SSH	1.1
<input type="checkbox"/> assertthat	Easy Pre and Post Assertions	0.2.1
<input type="checkbox"/> backports	Reimplementations of Functions Introduced Since R-3.0.0	1.4.1
<input checked="" type="checkbox"/> base	The R Base Package	4.2.1
<input type="checkbox"/> base64enc	Tools for base64 encoding	0.1-3
<input type="checkbox"/> bit	Classes and Methods for Fast Memory-Efficient Boolean Selections	4.0.4
<input type="checkbox"/> bit64	A S3 Class for Vectors of 64bit Integers	4.0.5
<input type="checkbox"/> blob	A Simple S3 Class for Representing Vectors of Binary Data ('BLOBS')	1.2.3
<input type="checkbox"/> boot	Bootstrap Functions (Originally by Angelo Canty for S)	1.3-28
<input type="checkbox"/> brew	Templating Framework for Report Generation	1.0-7

```

1 #creating contingency tables
2 library(MASS)
3 attach(Cars93)
4
5 glimpse(Cars93)
6
7 table(AirBags)
8 table(AirBags, Origin)
9 addmargins(table(AirBags, Origin))
10
11 table(AirBags, Origin)
12 prop.table(table(AirBags, Origin),2)*100
13 round(prop.table(table(AirBags, Origin),2)*100)
14
15 Cars93 %>%
16   group_by(Origin, AirBags)%>%
17   summarise(number=n())%>%
18   arrange(desc(number))
19
20 (Top Level)

```

Console Terminal Background Jobs

R 4.2.1

```

AirBags      Origin
Driver & Passenger 9      7
Driver only      23     20
None             16     18
> addmargins(table(AirBags, Origin))
AirBags      Origin
Driver & Passenger 9      7 16
Driver only      23     20 43
None             16     18 34
Sum              48     45 93
>

```

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RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins

Project: (None)

Environment History Connections Tutorial

R - Global Environment

Variable	Value
b	7
formul	22+21
my_packages	chr [1:24] "tidyverse" "broom" "coefplot" "cowp...
name	"rishi"
x	154
y	200
z	300

Files Plots Packages Help Viewer Presentation

Install Update

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Console Terminal Background Jobs

R 4.2.1

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