

File Edit Code View Plots Session Tools Debug Profile Tools Help

Environment History Executions Latency

Environment: R 4.4.2 (2024-04-24) 64-bit
Project: Pirates.Rproj
Session: RStudio Session
Values
age 40
name "John Doe"
sex "M"
height 180
text "average"
text1 "M is"
text2 "average"
var1 "orange"
var2 "orange"

Plot Plots Packages Help Viewer Presentation

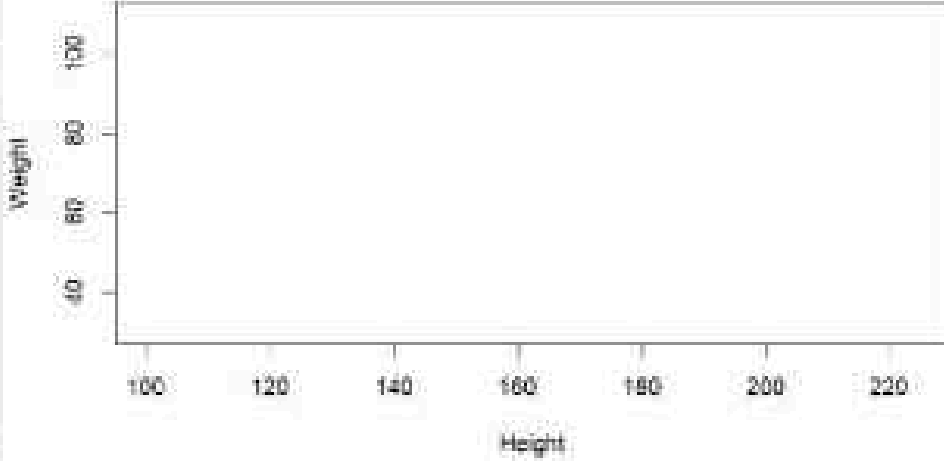
Zoom Export

```
37 plot(x = 1,  
38      type = "n",  
39      xlim = c(100, 220),  
40      ylim = c(40, 100),  
41      pch = 16,  
42      xlab = "height",  
43      ylab = "weight",  
44      main = "Adding points to a plot with points()")  
45 points(x = pirates$height [pirates$sex == "male"],  
46        y = pirates$weight [pirates$sex == "male"],  
47        pch = 16,  
48        col = transparent("coral2", trans.val = .8))  
49 y = pirates$weight [pirates$sex == "female"],  
50 y = pirates$height [pirates$sex == "female"]
```

Console Terminal Background Jobs

R 4.4.2 (2024-04-24)
xlab = "height",
ylab = "weight",
main = "Adding points to a plot with points()"
points(x = pirates\$height [pirates\$sex == "male"],
y = pirates\$weight [pirates\$sex == "male"],
pch = 16,
col = transparent("coral2", trans.val = .8))
Error: object 'pirates' not found
y = pirates\$weight [pirates\$sex == "female"],
Error: unexpected ']' in "y = pirates\$weight [pirates\$sex == "female"]"
^

Adding points to a plot with points()



RStudio interface showing R code, Environment pane, and a plot.

Environment

Variable	Value
age	40
name	"John Doe"
sex	"male"
weight	150
height	180
text1	"He is"
text2	"awesome"
var1	"orange"
var2	"banana"

Code Editor

```
47 ylab = "Weight",
48
49 main = "Adding points to a plot with points()"
50 points(x = pirates$height[pirates$sex == "male"],
51
52        y = pirates$weight[pirates$sex == "male"],
53
54        pch = 16,
55
56        col = transparent("coral", trans.val = .8))
57 points(x = pirates$height[pirates$sex == "female"],
58
59        y = pirates$weight[pirates$sex == "female"],
60
61        pch = 16,
62
63        col = transparent("steelblue", trans.val = .8))
```

Console

```
R 4.4.2 >
+ ylab = "Weight",
+
+ main = "Adding points to a plot with points()"
+ points(x = pirates$height[pirates$sex == "male"],
+
+        y = pirates$weight[pirates$sex == "male"],
+
+        pch = 16,
+
+        col = transparent("coral", trans.val = .8))
+
+ points(x = pirates$height[pirates$sex == "female"],
+
+        y = pirates$weight[pirates$sex == "female"],
+
+        pch = 16,
+
+        col = transparent("steelblue", trans.val = .8))
+
+ Error: unexpected ',' in "
+
+ Error: unexpected ',' in "
+
+ Error: unexpected ',' in "
```

Plot

Adding points to a plot with points()

Sex	Height	Weight
male	180	150
male	190	160
male	200	170
male	210	180
female	150	100
female	160	110
female	170	120

```

67 # Create a blank plot
68 plot(x = 1,
69      type = "n",
70      xlim = c(100, 225),
71      ylim = c(40, 110),
72      pch = 16,
73      xlab = "Height",
74      ylab = "Weight",
75      main = "Adding points to a plot with points()")
76
77 # Add coral points for male data
78 points(x = pirates$height[pirates$sex == "male"],
79        y = pirates$weight[pirates$sex == "male"],
80        pch = 16,
81        col = transparent("coral", trans.val = .8))
82
83 # Add steelblue points for female data
84 points(x = pirates$height[pirates$sex == "female"],
85        y = pirates$weight[pirates$sex == "female"],
86        pch = 16,
87        col = transparent("steelblue3", trans.val = .8))
88 plot(x = pirates$height)

```

Environment History Connections Global

Environment: RStudio Desktop - 64-bit

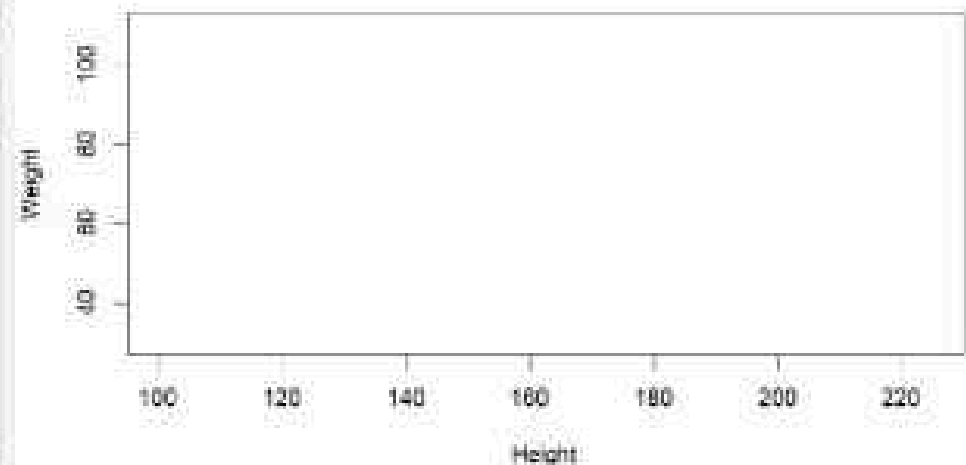
Values

age	40
name	"John Doe"
num1	1
num2	10
text	"awesome"
text1	"R is"
text2	"awesome"
var1	"orange"
var2	"banana"

File Plots Packages Help Viewer Presentation

Zoom Export

Adding points to a plot with points()



```

Console Terminal Background Job
> R 4.4.1 ~>
Error: object 'pirates' not found
> # Add steelblue points for female data
> points(x = pirates$height[pirates$sex == "female"],
>        y = pirates$weight[pirates$sex == "female"],
>        pch = 16,
>        col = transparent("steelblue3", trans.val = .8))
Error: object 'pirates' not found
> # Add vertical line at mean weight
> abline(x = mean(pirates$height),
>        lty = 2) # Dashed line
Error: object 'pirates' not found
> # Add vertical line at mean weight
> abline(x = mean(pirates$height),
>        lty = 2) # Dashed line
Error: object 'pirates' not found
>

```

```

83 # Add steelblue points for female data
84 points(x = pirates$height[pirates$sex == "female"],
85        y = pirates$weight[pirates$sex == "female"],
86        pch = 16,
87        col = transparent("steelblue", trans.val = .8))
88
89 plot(x = pirates$height,
90      y = pirates$weight,
91      xlab = "height",
92      ylab = "weight",
93      main = "Adding reference lines with abline()",
94      pch = 16,
95      col = gray(.5, .2))
96
97 # Add horizontal line at mean height
98 abline(v = mean(pirates$height),
99        lty = 2) # Dashed line
100
101 # Add vertical line at mean weight
102 abline(v = mean(pirates$weight),
103        lty = 2) # Dashed line
104
105 # End of script

```

Console Terminal Background Jobs

```

R 4.4.2 - 64-bit
> # Add steelblue points for female data
> points(x = pirates$height[pirates$sex == "female"],
+        y = pirates$weight[pirates$sex == "female"],
+        pch = 16,
+        col = transparent("steelblue3", trans.val = .8))
Error: object 'pirates' not found
> # Add vertical line at mean height
> abline(v = mean(pirates$height),
+        lty = 2) # Dashed line
Error: object 'pirates' not found
> # Add vertical line at mean weight
> abline(v = mean(pirates$weight),
+        lty = 2) # Dashed line
Error: object 'pirates' not found

```

Environment History Connections Global

Insert Dataset - R 4.4.2 - 64-bit

Object Designator

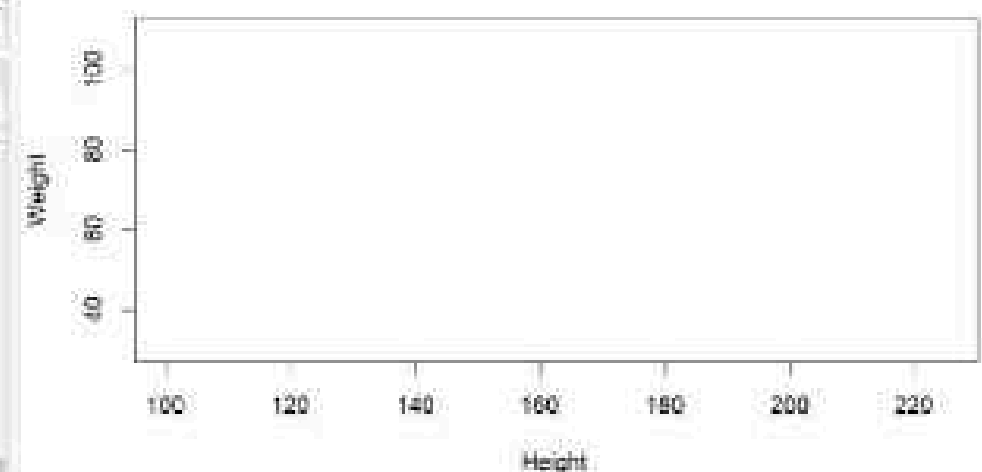
Values

age	40
name	"John Doe"
var1	5
var2	10
text	"awesome"
text1	"It is"
text2	"awesome"
var1	"orange"
var2	"orange"

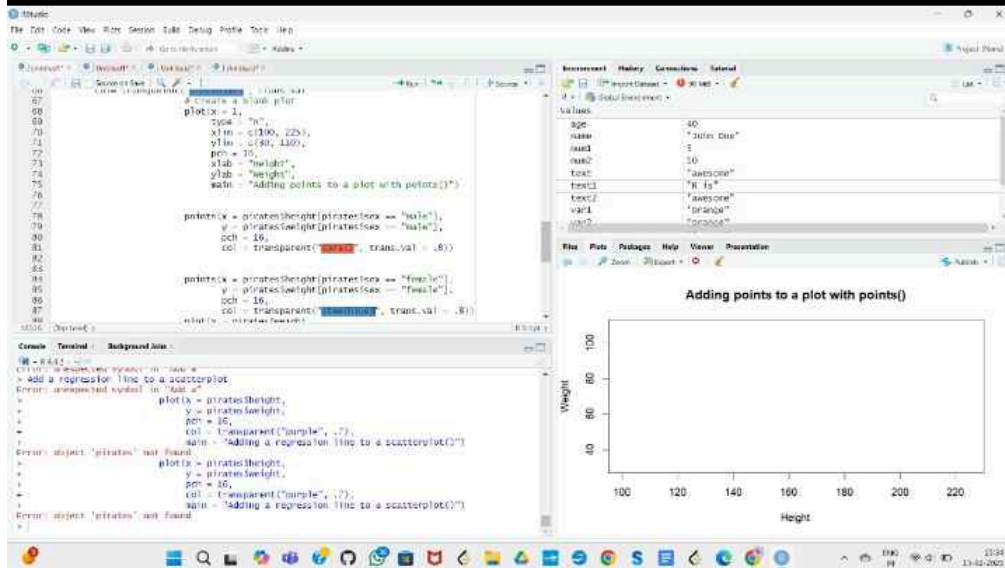
File Plot Packages Help Viewer Presentation

Zoom - Fit - Reset

Adding points to a plot with points()



3:54



Reply

Studio

File Edit Code View Plot Session Build Debug Profile Tools Help

Source Editor

```
84 points(x = pirates$height, pirates$sex == "female",
85 y = pirates$weight, pirates$sex == "female"),
86 pch = 16,
87 col = transparent("blue", .8), trans.col = .8))
88
89 plot(x = pirates$height,
90 y = pirates$weight,
91 xlab = "height",
92 ylab = "weight",
93 main = "adding reference lines with abline",
94 pch = 16,
95 col = gray(.5, .2))
96
97 plot(x = pirates$height,
98 y = pirates$weight,
99 pch = 16,
100 col = transparent("purple", .7),
101 main = "Adding a regression line to a scatterplot()")
102
103 # add horizontal line at mean height
104
105
```

Console

```
R 4.4.2 >
Error: unexpected symbol in "add a"
> Add a regression line to a scatterplot
Error: unexpected symbol in "Add a"
>
plot(x = pirates$height,
y = pirates$weight,
pch = 16,
col = transparent("purple", .7),
main = "Adding a regression line to a scatterplot()")
Error: object 'pirates' not found
>
plot(x = pirates$height,
y = pirates$weight,
pch = 16,
col = transparent("purple", .7),
main = "Adding a regression line to a scatterplot()")
Error: object 'pirates' not found
>
```

Environment

Environment History Connections Global

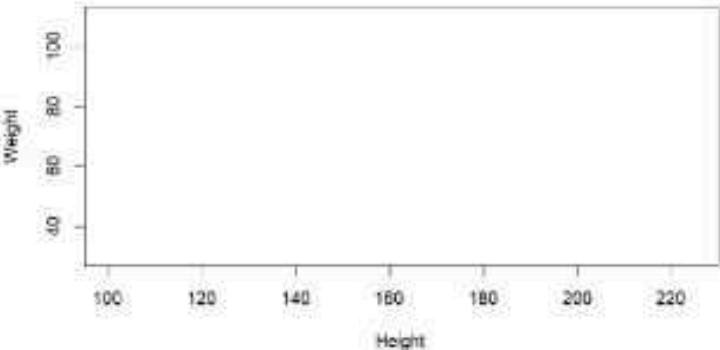
Global Environment

values

name	value
age	40
name	"John Doe"
rank	5
rank2	10
text	"awesome"
text1	"It is"
text2	"awesome"
var1	"orange"
var2	"orange"

Plot

Adding points to a plot with points()





RStudio interface showing R code for plotting data and a scatter plot titled "Adding points to a plot with points()".

R Code:

```
1 # Create two vectors of data
2 y = 1:10
3 x1m = c(1.5, 2.5)
4 y1m = c(0, 11)
5
6 # Add points to the plot
7 # Add connections with segments()
8 segments(x0 = x1m, length(after),
9         y0 = before,
10        x1 = x2m, length(after),
11        y1 = after,
12        col = gray(0.5))
13
14 # Add labels
15 text(x = c(1.5, 2.5), y = c(0, 11),
16      size = 1, at = c(1, 2), line = 1)
```

Environment:

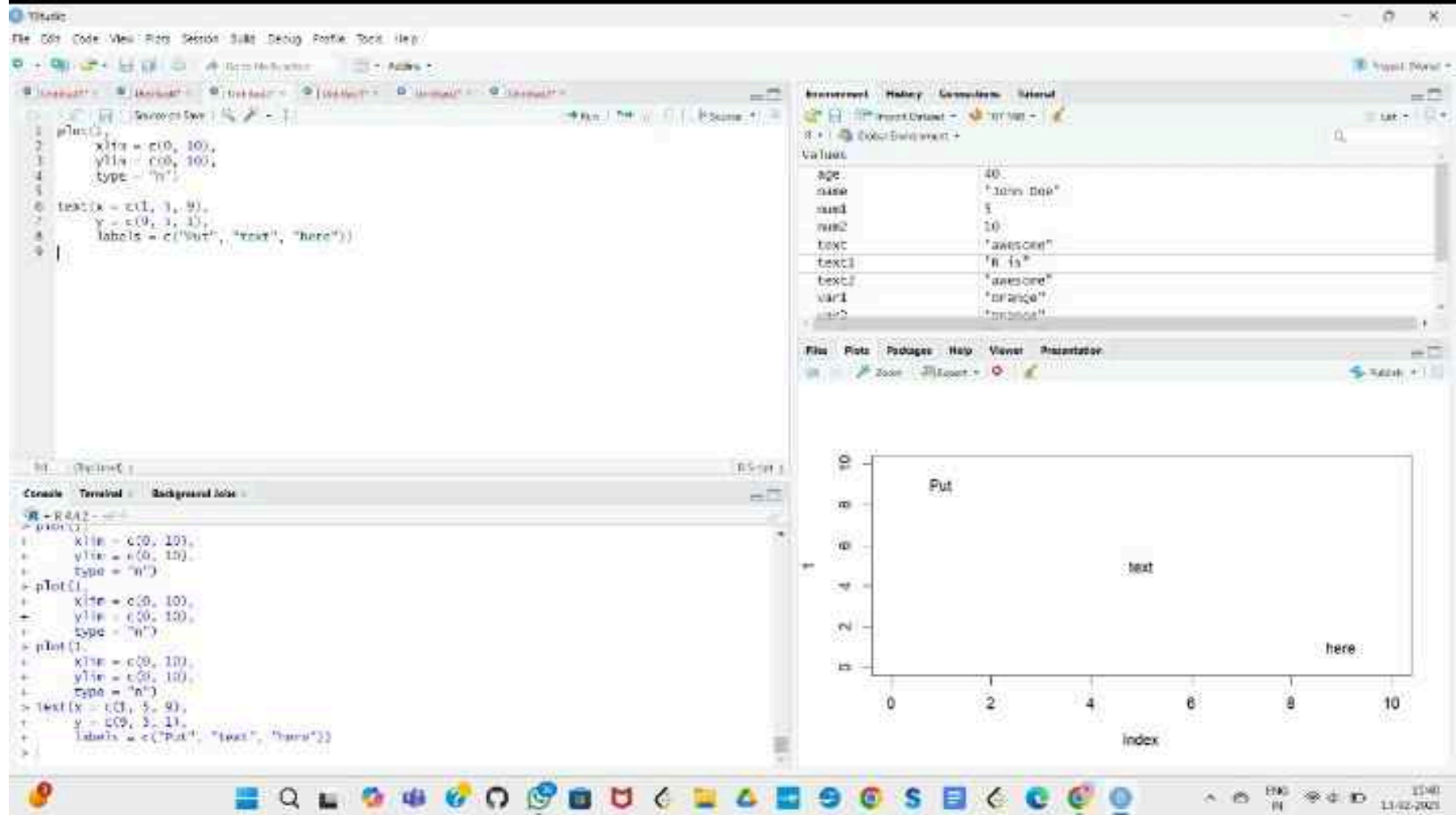
Object	Class	Attributes
y	numeric	
x1m	numeric	
y1m	numeric	
x2m	numeric	
after	numeric	
before	numeric	
text	text	
text1	text	
var1	text	
var2	text	

Plot:

Adding points to a plot with points()

Height

Weight



RStudio

File Edit View Session Environment Help

1 # Create data vectors
2 height <- c(156, 175, 160, 172, 159, 165, 178)
3 weight <- c(55, 74, 68, 77, 66, 75, 75)
4 id <- c("andrew", "heidi", "becki", "madison", "david", "vincent", "jack")
5
6 # Plot data
7 plot(x = height,
8
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Environment History Connections Scripts

height weight id

height 1 156
weight 1 55
id 1 andrew
height 2 175
weight 2 74
id 2 heidi
height 3 160
weight 3 68
id 3 becki
height 4 172
weight 4 77
id 4 madison
height 5 159
weight 5 66
id 5 david
height 6 165
weight 6 75
id 6 vincent
height 7 178
weight 7 75
id 7 jack

File Edit Packages Help Viewer Presentation

Put

test

here

Index

Console Terminal Background Data

> # Create data vectors
1 weight <- c(55, 74, 68, 77, 66, 75, 75)
2 id <- c("andrew", "heidi", "becki", "madison", "david", "vincent", "jack")
3
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RStudio interface showing R code, console output, and a plot.

Source Editor:

```
1 plot(1,
2     type = "n",
3     main = "the \\n tag",
4     xlab = "", ylab = "")
5
6 # Text without breaks
7 text(x = 1, y = 1.4, labels = "Text without \\n", font = 2)
8 text(x = 1, y = 1.2,
9     labels = "Hailus are easy. But sometimes they don't make sense. Refrigerator",
10     font = 3) # italic font
11
12 plot(mtcars, lty = 2)
13 # Text with breaks
14 text(x = 1, y = .8, labels = "Text with \\n", font = 3)
15 text(x = 1, y = .7,
16     labels = "Hailus are easy\\nBut sometimes they don't make sense\\nRefrigerator",
17     font = 3) # italic font
18
```

Console:

```
R 4.4.2 -- 64-bit
> y = seq(0.5, 1.5, by = 0.1)
> xlab = c(155, 180),
> ylab = c(85, 80),
> pch = 16,
> col = yarr::rainbowpal("xarr")
error: object 'height' not found
> # Create data vectors
> height <- c(150, 175, 180, 172, 159, 165, 178)
> weight <- c(65, 74, 89, 72, 68, 75, 74)
> text(x = 1, y = .7,
+     labels = "Hailus are easy\\nBut sometimes they don't make sense\\nRefrigerator",
+     font = 3) # italic font
> text(x = 1, y = 1.2,
+     labels = "Hailus are easy. But sometimes they don't make sense. Refrigerator",
+     font = 3) # italic font
>
```

Environment:

Object	Value
code	"John Doe"
name1	1
name2	10
text	"John Doe"
text1	"It is"
text2	"John Doe"
var1	"orange"
var2	"orange"
var3	"orange"

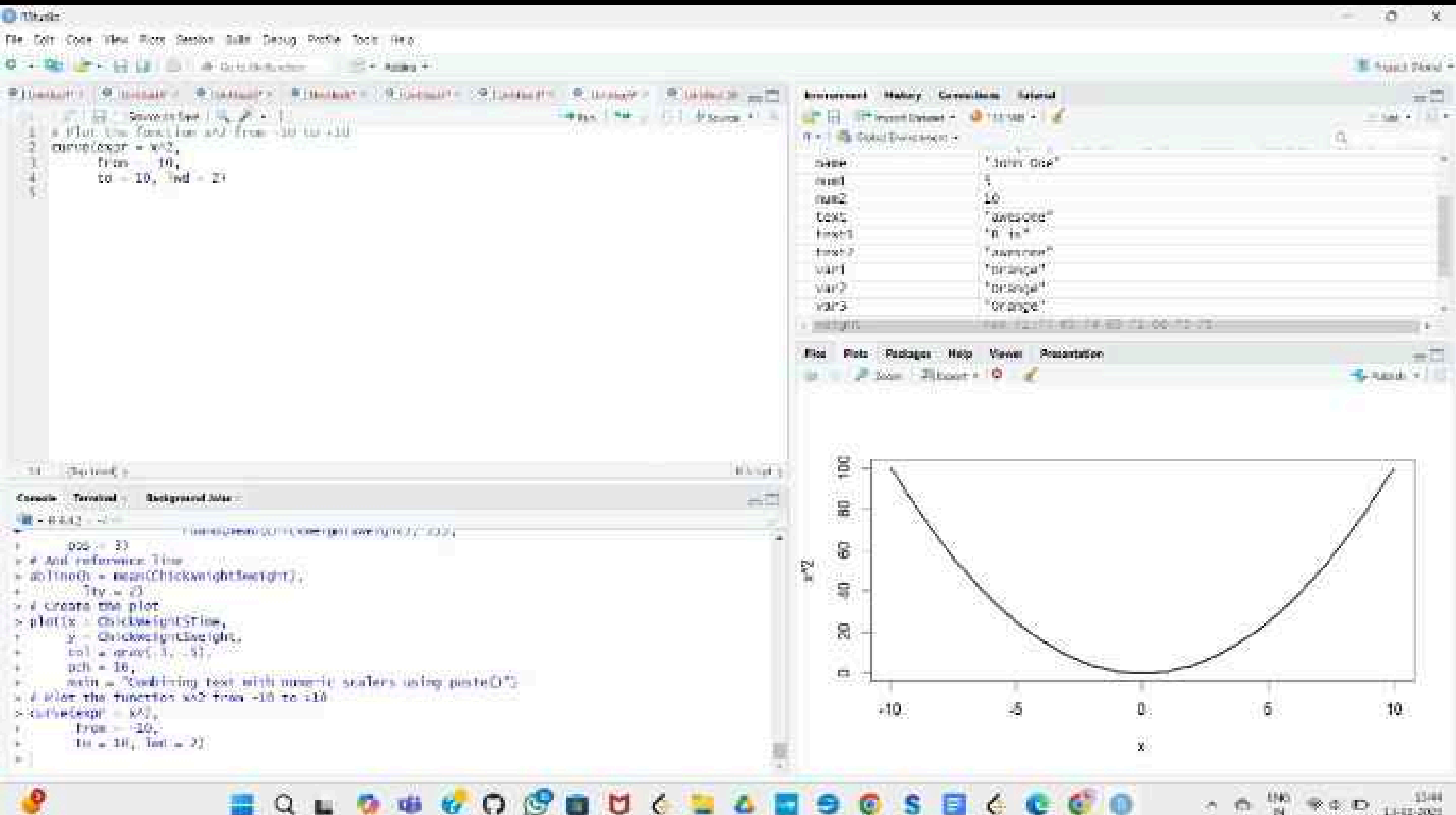
Plot:

Put

text

here

Hailus are easy\\nBut sometimes they don't make sense\\nRefrigerator



Python IDE interface showing code, console, and a presentation slide.

Code Editor:

```
1 plt.plot(xlim = x(1, 100), ylim = y(1, 100),  
2         edgecolor = 'b', linestyle = 'solid')  
3  
4  
5 text(25, 75, label = 'rect()')  
6 rectwidth = 10, rectheight = 10  
7  
8  
9  
10  
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Console:

```
> text(75, 95, label = "symbols(circles)")  
> symbols(x = randint(5, 60, 90),  
+         y = randint(5, 60, 90),  
+         circles = c(1, -1, 3),  
+         add = True, fg = gray(0.5, .3))  
> text(75, 90, label = "arrows()")  
> arrows(x0 = randint(5, 60, 90),  
+        y0 = randint(5, 10, 25),  
+        x1 = randint(5, 60, 90),  
+        y1 = randint(5, 10, 25),  
+        length = .1, .... [TRUNCATED])
```

Environment:

Variable	Value
rect1	[1, 10]
rect2	[10, 10]
rect3	[10, 10]
rect4	[10, 10]
rect5	[10, 10]
rect6	[10, 10]
rect7	[10, 10]
rect8	[10, 10]
rect9	[10, 10]
rect10	[10, 10]
rect11	[10, 10]
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rect99	[10, 10]
rect100	[10, 10]

Slide:

Adding simple figures to a plot

The slide illustrates the following plot elements:

- rect():** A red rectangle.
- polygon():** A blue triangle.
- segments():** Two black line segments.
- symbols(circles):** A large circle containing three smaller circles of different colors (red, blue, and green).
- arrows():** Two black arrows pointing in different directions.