

Week 1 Module 2: Graphics Plots

Exercises

First, let's clear the global computing environment:

```
rm( list = ls() )
```

Exercises for Week 1 Module 2: Graphics Plots

Exercise 2.1: Modifying a basic plot

Plot a single point at the location (60, 240). Set the x -axis to range between 0 and 100, and the y -axis to range between 0 and 400. Be sure to explicitly specify a main title, as well as titles for the x - and y axes.

Solution

```
# Type your answer here
```

Exercise 2.2: Using graphical parameters

Plot a single point at the location (60, 90).

Set both the x -axis and the y -axis to range between 0 and 100, and use a square graph shape.

Set a graphical parameter to remove the box around the display.

Be sure to include all the fancy stuff!

Solution

```
# Type your answer here
```

Exercise 2.3: Creating an empty plot with no data

Create an empty graph with no data where x ranges from 0 to 20 and y ranges from 0 to 5.

Solution

```
# Type your answer here
```

Exercise 2.4: Creating a completely blank display

Create a completely blank display where x ranges from 0 to 20 and y ranges from 0 to 5.

Solution

Solutions to the Exercises

Exercise 2.1: Modifying a basic plot

Plot a single point at the location (60, 240).

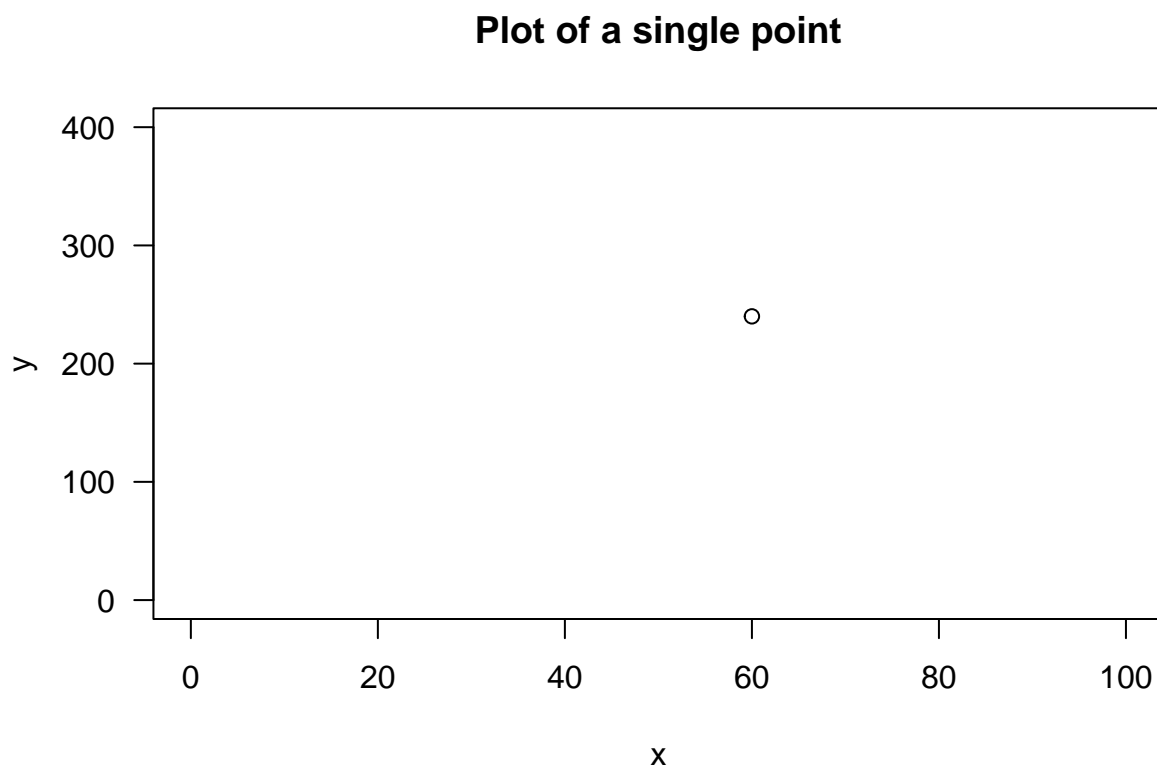
Set the x -axis to range between 0 and 100, and the y -axis to range between 0 and 400.

Be sure to put in all the extra stuff!

Solution

Here's my solution:

```
plot(  
  x = 60,  
  y = 240,  
  xlim = c(0, 100),  
  ylim = c(0, 400),  
  main = "Plot of a single point",  
  xlab = "x",  
  ylab = "y",  
  las = 1  
)
```



Exercise 2.2: Using graphical parameters

Plot a single point at the location (60, 90).

Set both the x -axis and the y -axis to range between 0 and 100, and use a square graph shape.

Set a graphical parameter to remove the box around the display.

Be sure to include all the fancy stuff!

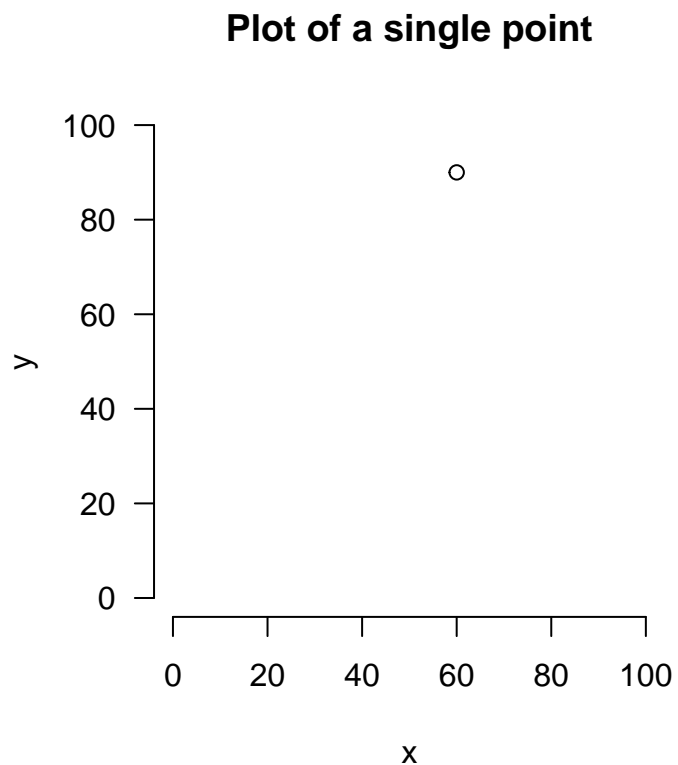
Solution

Here's my solution:

```
par( bty = "n" )

par( pty = "s" )

plot(
  x = 60,
  y = 90,
  xlim = c(0, 100),
  ylim = c(0, 100),
  main = "Plot of a single point",
  xlab = "x",
  ylab = "y",
  las = 1
)
```



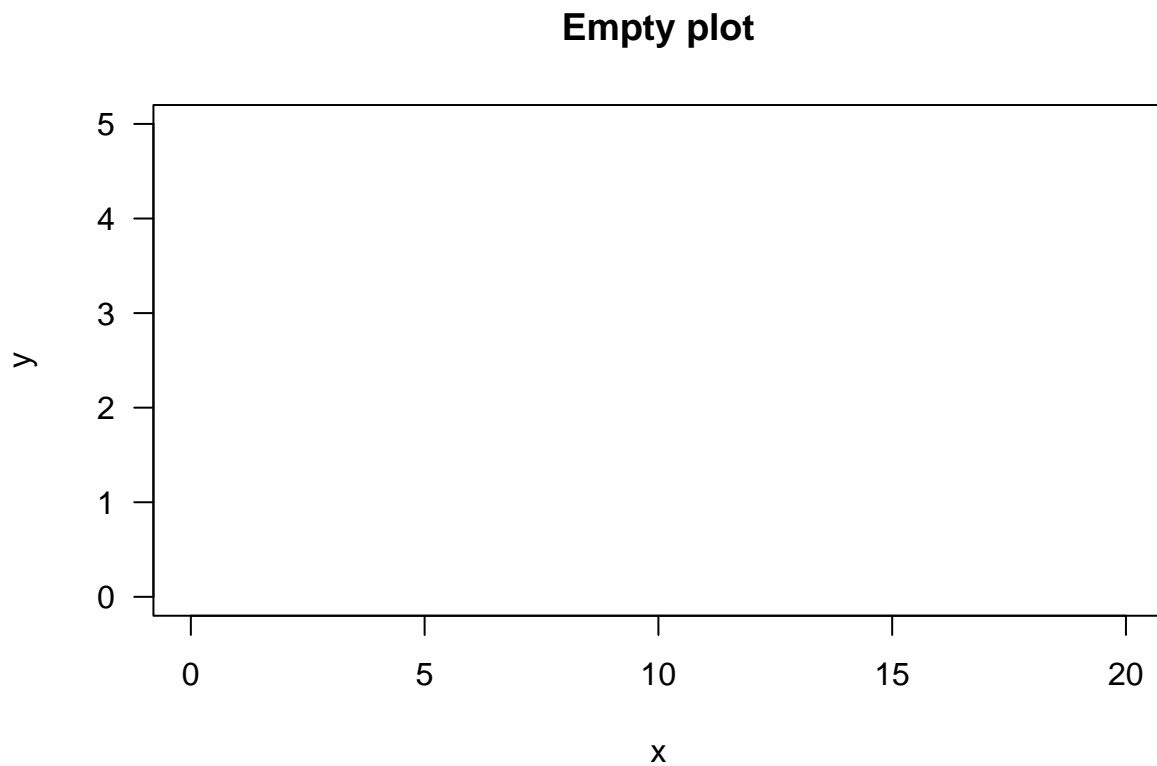
Exercise 2.3: Creating an empty plot with no data

Create an empty graph with no data where x ranges from 0 to 20 and y ranges from 0 to 5.

Solution

Here's my solution:

```
plot(  
  x = NULL,  
  xlim = c(0, 20),  
  ylim = c(0, 5),  
  main = "Empty plot",  
  xlab = "x",  
  ylab = "y",  
  las = 1  
)
```



Exercise 2.4: Creating a completely blank display

Create a completely blank plotting region where x ranges from 0 to 20 and y ranges from 0 to 5.

Solution

```
plot(  
  x = NULL,
```

```
xlim = c(0, 20),  
ylim = c(0, 5),  
xlab = "",  
ylab = "",  
axes = FALSE  
)
```