

WS #2 - R

Monday, January 27, 2025

DS 002R, Fall 2024

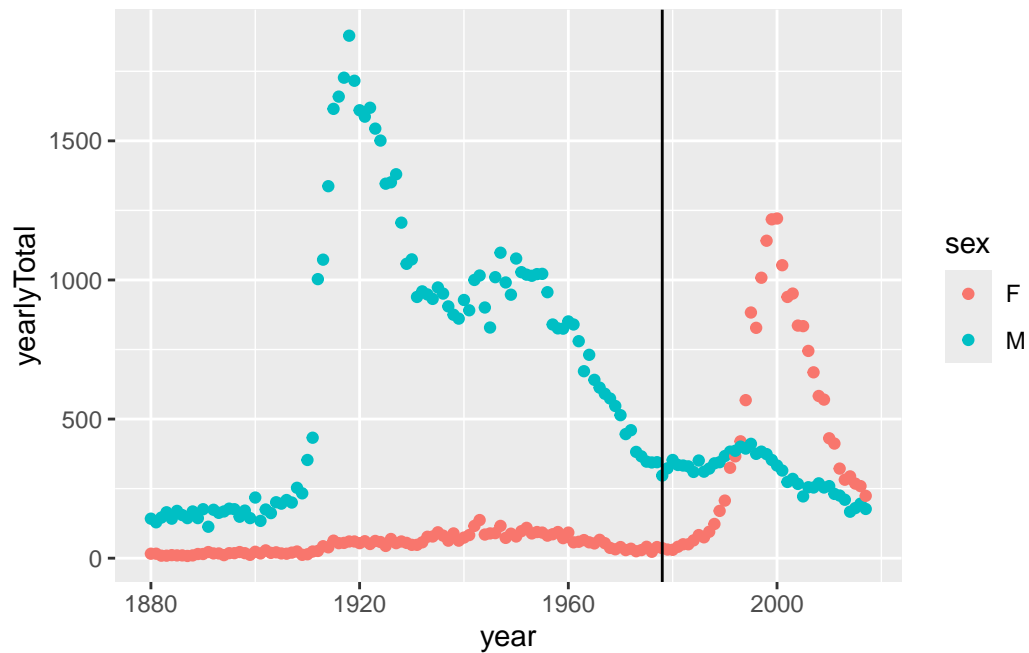
Your Name: _____

Names of people you worked with: _____

How your classes are going? Is your schedule set or are you trying to move things around?

Task:

Consider the following R code (you don't need to know the functions to solve the problem.)



```

Sidneys <- babynames |>
  dplyr::filter(name == "Sidney") |>
  dplyr::group_by(year, sex) |>
  dplyr::summarise(yearlyTotal = sum(n))

Sidneys |>
  ggplot2::ggplot(aes(x = year,
                      y = yearlyTotal)) +
  ggplot2::geom_point(aes(color = sex)) +
  ggplot2::geom_vline(xintercept = 1978)

```

The expressions above contain several types of objects as categorized here. Identify the object type for each of the items in the table. That is, assign one of a. through e. to each word.

- a. function
- b. data frame
- c. variable
- d. “named argument”
- e. level / value of the variable
- f. package

Item	Object Type	Item	Object Type
<code>babynames</code>		<code>ggplot2</code>	
<code>name</code>		<code>n</code>	
<code>group_by</code>		<code>year</code>	
<code>sex</code>		<code>summarise</code>	
<code>yearlyTotal</code>		<code>sum</code>	
<code>dplyr</code>		<code>filter</code>	
<code>Sidneys</code>		<code>ggplot</code>	
<code>aes</code>		<code>x</code>	
<code>y</code>		<code>geom_point</code>	
<code>color</code>		<code>geom_vline</code>	
<code>xintercept</code>		<code>Sidney</code>	

Solution:

Item	Object Type	Item	Object Type
babynames	b	ggplot2	f
name	c	n	c
group_by	a	year	c
sex	c	summarize	a
yearlyTotal	c	sum	a
dplyr	f	filter	a
Sidneys	b	ggplot	a
aes	a	x	d
y	d	geom_point	a
color	d	geom_vline	a
xintercept	d	Sidney	e