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2023-07-22

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Heading 1

- According to bla, bla, bla ([Wickham et al., 2023](#))
 - The citation use the file *r_for_data_science_2_edition_umng.bib*
 - The citation applies the apa style with the file *apa.csl*
- This is an **inline** r code¹
 - My age is 37 years

¹This is a footnote

Heading 2

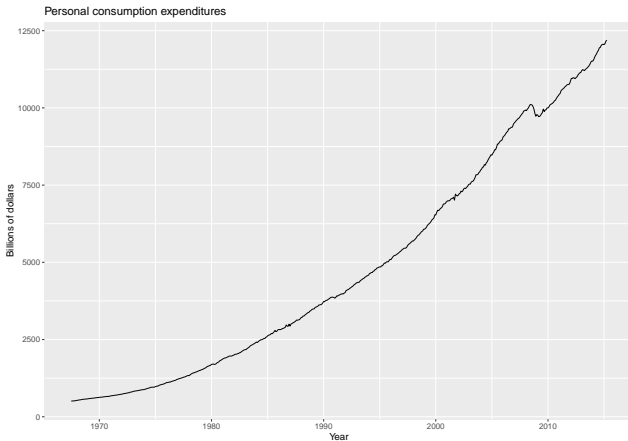
- This is a table using `kableExtra`:

Table 1: US economic time series

Date	Consumption	Population	Saving rate	Unemployment	Unemployed
1967-07-01	506.7	198712	12.6	4.5	2944
1967-08-01	509.8	198911	12.6	4.7	2945
1967-09-01	515.6	199113	11.9	4.6	2958
1967-10-01	512.2	199311	12.9	4.9	3143
1967-11-01	517.4	199498	12.8	4.7	3066

Heading 3

- This is a simple plot using ggplot2:



Heading 4

- This is an image

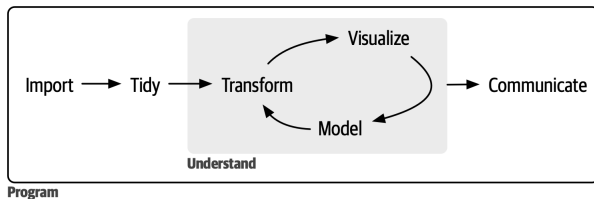


Figure 1: What you will learn ([Wickham et al., 2023, fig. 1.1](#))

- This is illustrated well by Figure [1](#)

Heading 5

- This is an line equation:
 - The solution to $\sqrt{x} = 26$ is $x = 676$
- This is a centered equation:

$$\begin{aligned} A &= \frac{\pi r^2}{2} \\ &= \frac{1}{2} \pi r^2 \end{aligned}$$

Heading 6

- This is a R code chunk

```
# Using R as a calculator  
result <- 2 + 3  
result
```

```
[1] 5
```

- This is a Python code chunk

```
# Creating a numpy array  
np_array = np.array(*range(1,4))  
np_array
```

```
array([1, 2, 3])
```


Heading 7

- From R to Python

```
np_array + r.result
```

```
array([6., 7., 8.])
```

- From Python to R

```
py$np_array + result
```

```
[1] 6 7 8
```

References I

Wickham, H., Çetinkaya-Rundel, M., & Golemund, G. (2023). *R for data science: Import, tidy, transform, visualize, and model data* (2nd edition). O'Reilly Media, Inc. <https://r4ds.hadley.nz/>