

# Quarto

YAML, rendering and parameters

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```
```{r}
#| warning = FALSE
setwd("C:/Users/Adnan_Sevinc/OneDrive - EPAM/University/4.Semester/Reproducible Research [
```
```

## 1 *List of Breaking Bad episodes*

Breaking Bad is an American television drama series created by Vince Gilligan, which premiered in 2008 on the cable network AMC. The story is about Walter White (Bryan Cranston), a 50-year-old high school chemistry teacher in Albuquerque, New Mexico. After White is diagnosed with terminal lung cancer, he uses his chemistry expertise to cook crystal meth, assisted by his former student Jesse Pinkman (Aaron Paul), to secure his family's (played by Anna Gunn and RJ Mitte) inheritance before he dies.

During the course of the series, 62 episodes of Breaking Bad aired over five seasons. The pilot episode was first aired on January 20, 2008, and the series finale, was broadcast on September 29, 2013. Breaking Bad: Original Minisodes, which consisted of several one- to five-minute clips, released 17 short episodes over the course of three years throughout Breaking Bad's run.[1]

On October 11, 2019, Netflix released El Camino: A Breaking Bad Movie, a feature film continuation of Breaking Bad, written and directed by Gilligan.[2] An additional short film Snow Globe: A Breaking Bad Short was released on February 17, 2020.[3]



Figure 1: Official YAML Logo.svg

## 1.1 Ratings Summary

```
```{r}
#| warning = FALSE
library(readxl)
rating <- read_excel("dataset/rating.xlsx")

summary(rating)
```
```

| Season           | Episode number 1 | Episode number 2 | Episode number 3 |
|------------------|------------------|------------------|------------------|
| Length:7         | Length:7         | Length:7         | Length:7         |
| Class :character | Class :character | Class :character | Class :character |
| Mode :character  | Mode :character  | Mode :character  | Mode :character  |



Figure 2: “Breaking Bad”

|                   |                   |                   |                   |
|-------------------|-------------------|-------------------|-------------------|
| Episode number 4  | Episode number 5  | Episode number 6  | Episode number 7  |
| Length:7          | Length:7          | Length:7          | Length:7          |
| Class :character  | Class :character  | Class :character  | Class :character  |
| Mode :character   | Mode :character   | Mode :character   | Mode :character   |
| Episode number 8  | Episode number 9  | Episode number 10 | Episode number 11 |
| Length:7          | Length:7          | Length:7          | Length:7          |
| Class :character  | Class :character  | Class :character  | Class :character  |
| Mode :character   | Mode :character   | Mode :character   | Mode :character   |
| Episode number 12 | Episode number 13 | Average           |                   |
| Length:7          | Length:7          | Length:7          |                   |
| Class :character  | Class :character  | Class :character  |                   |
| Mode :character   | Mode :character   | Mode :character   |                   |

## 1.2 Upload dataset

```

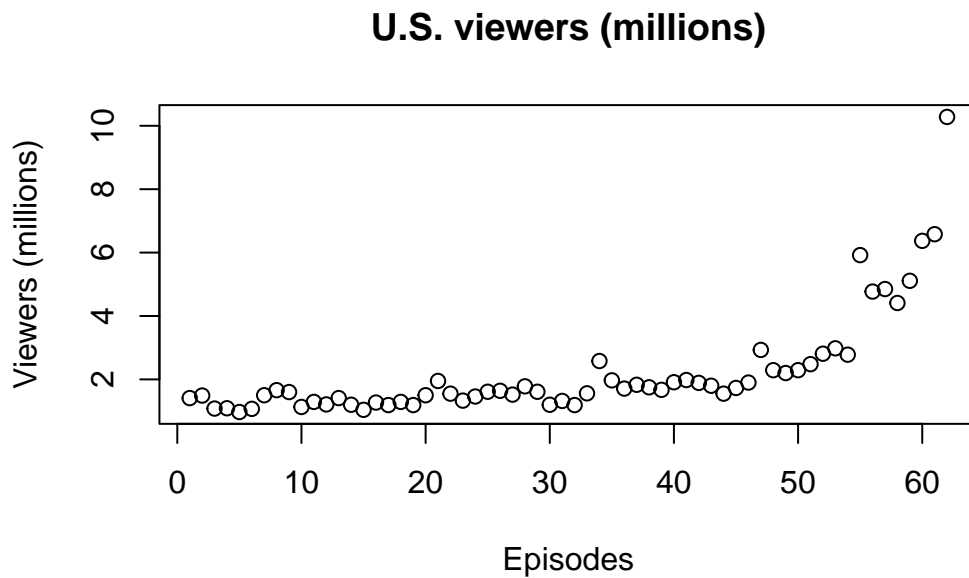
```{r}
viewer<- read_excel("dataset/viewersall.xlsx")
viewer$`U.S. viewers (millions)` <- as.numeric(viewer$`U.S. viewers (millions)`)
```

```

## 2 Graph

### 2.1 A graph of the viewership over time.

```
```{r}
library(readxl)
plot(viewer$`U.S. viewers (millions)`, xlab = "Episodes", ylab = "Viewers (millions)")
title("U.S. viewers (millions)")
```
```



### 2.2 A graph of the viewership over time by episode

```
```{r}
#| label: fig-cars
#| fig-cap: "Number of viewers by season."
library(vioplot)
```
```

Warning: package 'vioplot' was built under R version 4.1.3

Loading required package: sm

Warning: package 'sm' was built under R version 4.1.3

Package 'sm', version 2.2-5.7: type help(sm) for summary information

Loading required package: zoo

Warning: package 'zoo' was built under R version 4.1.3

Attaching package: 'zoo'

The following objects are masked from 'package:base':

as.Date, as.Date.numeric

```
```${r}
#| label: fig-cars
#| fig-cap: "Number of viewers by season."
#| warning = FALSE
#| message = FALSE
vioplot(viewer$`U.S. viewers (millions)` ~ viewer$Season,
        xlab = "Seasons" , ylab = "Viewers (millions)")
```
```

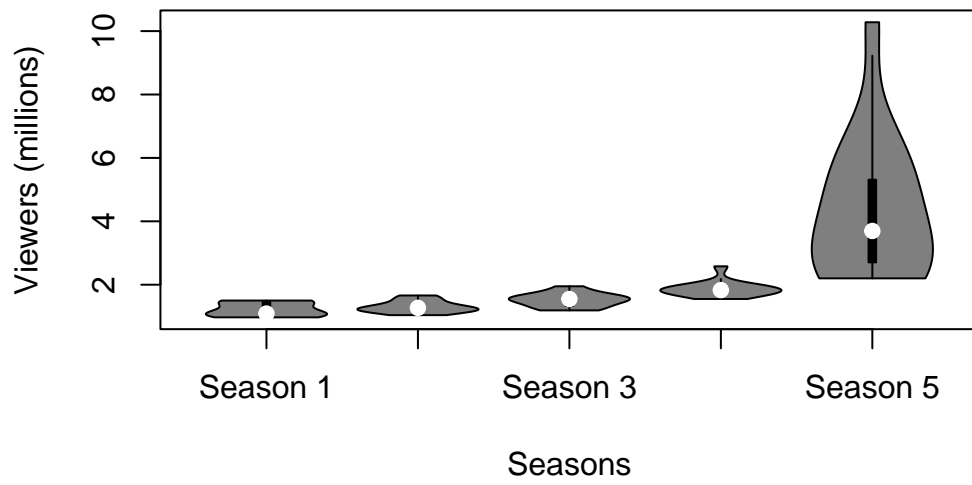


Figure 3: Number of viewers by season.

As it can be observed in Figure 3 the number of viewers increased together with seasons.