

Assignment 1

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```
videogamesdataset <- read.csv("C://Users//srich//Downloads//videogamesdataset//imdb_video_games.csv",nr
# I considered video games data set which is imported from https://www.kaggle.com/datasets/lorentzyeun
```

```
View(videogamesdataset)
# The "video games data set" in the viewer is displayed to visually inspect the data set
```

```
mean(videogamesdataset$Year)
```

```
## [1] 2016.657
```

```
# The average of the "Year" column is calculated
```

```
min(videogamesdataset$Year)
```

```
## [1] 1998
```

```
# The minimum of the "Year" column is calculated
```

```
sd(videogamesdataset$Year)
```

```
## [1] 6.23054
```

```
# The standard deviation of the "Year" column is calculated
```

```
table(videogamesdataset$Title)
```

```
##
##           A Plague Tale: Requiem
##                               1
##           Alan Wake
##                               1
##           Alan Wake II
##                               1
##   Armored Core VI: Fires of Rubicon
##                               1
##           Assassin's Creed II
##                               1
```

```

##      Assassin's Creed IV: Black Flag
##      1
##      Assassin's Creed: Odyssey
##      1
##      Assassin's Creed: Origins
##      1
##      Assassin's Creed: Valhalla
##      1
##      Baldur's Gate
##      1
##      Baldur's Gate II: Shadows of Amn
##      1
##      Baldur's Gate III
##      1
##      Batman: Arkham Asylum
##      1
##      Batman: Arkham City
##      1
##      Batman: Arkham Knight
##      1
##      Batman: Arkham Origins
##      1
##      Beyond: Two Souls
##      1
##      Call of Duty: Black Ops
##      1
##      Call of Duty: Black Ops Cold War
##      1
##      Call of Duty: Modern Warfare
##      1
##      Call of Duty: Modern Warfare 2
##      1
##      Call of Duty: Modern Warfare II
##      1
##      Call of Duty: WWII
##      1
##      Command & Conquer: Red Alert 3
##      1
##      Control
##      1
##      Cyberpunk 2077
##      1
##      Cyberpunk 2077: Phantom Liberty
##      1
##      Days Gone
##      1
##      Death Stranding
##      1
##      Destiny 2
##      1
##      Detroit: Become Human
##      1
##      Diablo IV
##      1

```

##	Elden Ring	
##		1
##	Fallout 3	
##		1
##	Fallout 4	
##		1
##	Fallout: New Vegas	
##		1
##	Far Cry 3	
##		1
##	Far Cry 5	
##		1
##	Far Cry 6	
##		1
##	Final Fantasy VII Remake	
##		1
##	Final Fantasy XVI	
##		1
##	Five Nights at Freddy's: Security Breach	
##		1
##	Fortnite	
##		1
##	Genshin Impact	
##		1
##	Ghost of Tsushima	
##		1
##	God of War	
##		2
##	God of War III	
##		1
##	God of War: Ragnarök	
##		1
##	Gotham Knights	
##		1
##	Grand Theft Auto III	
##		1
##	Grand Theft Auto IV	
##		1
##	Grand Theft Auto V	
##		1
##	Grand Theft Auto VI	
##		1
##	Grand Theft Auto: San Andreas	
##		1
##	Grand Theft Auto: Vice City	
##		1
##	High on Life	
##		1
##	Hogwarts Legacy	
##		1
##	Horizon Forbidden West	
##		1
##	Horizon Zero Dawn	
##		1

##	Immortals of Aveum	
##		1
##	Injustice 2	
##		1
##	Kingdom Hearts III	
##		1
##	L.A. Noire	
##		1
##	Marvel's Guardians of the Galaxy	
##		1
##	Mass Effect	
##		1
##	Mass Effect 2	
##		1
##	Metal Gear Solid V: The Phantom Pain	
##		1
##	Minecraft	
##		1
##	Mortal Kombat 1	
##		1
##	Mortal Kombat 11	
##		1
##	Peaky Blinders: The King's Ransom	
##		1
##	Red Dead Redemption	
##		1
##	Red Dead Redemption II	
##		1
##	Resident Evil 2	
##		1
##	Resident Evil 4	
##		1
##	Resident Evil Village	
##		1
##	Saints Row	
##		1
##	Spider-Man	
##		1
##	Spider-Man 2	
##		1
##	Spider-Man: Miles Morales	
##		1
##	Squadron 42	
##		1
##	Star Wars Jedi: Fallen Order	
##		1
##	Star Wars Jedi: Survivor	
##		1
##	Star Wars: The Force Unleashed	
##		1
##	Starfield	
##		1
##	Suicide Squad: Kill the Justice League	
##		1

```
##           Super Mario Bros. Wonder
##                               1
##           The Callisto Protocol
##                               1
##           The Elder Scrolls V: Skyrim
##                               1
##           The Last of Us
##                               1
##           The Last of Us: Part I
##                               1
##           The Last of Us: Part II
##                               1
## The Legend of Zelda: Tears of the Kingdom
##                               1
##           The Quarry
##                               1
##           The Texas Chain Saw Massacre
##                               1
##           The Witcher 3: Wild Hunt
##                               1
##           Tomb Raider
##                               1
##           Uncharted 4: A Thief's End
##                               1
```

```
# A frequency table of unique values in "Title" column is created
```

```
str(videogamesdataset$Year)
```

```
## int [1:99] 2023 2023 2018 2023 2022 2022 2013 2023 2018 2023 ...
```

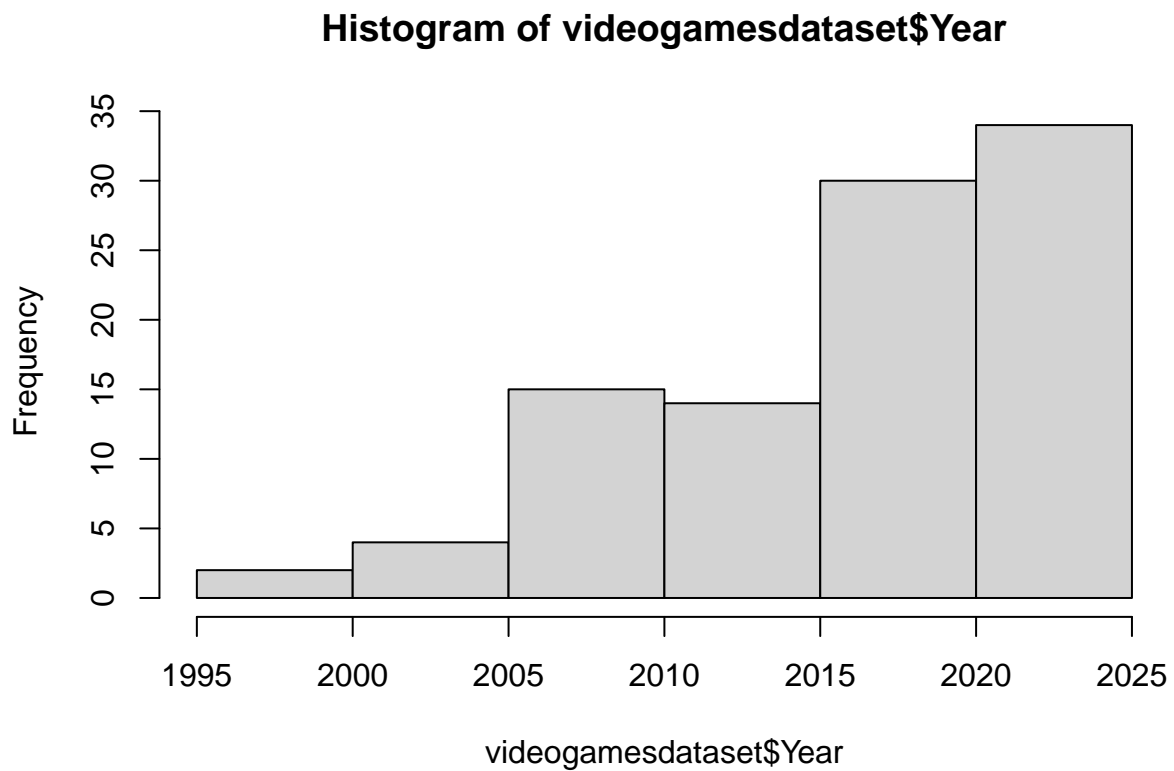
```
# It displays the structure of the "Year" column
```

```
videogamesdataset_transformed <- (videogamesdataset$Year - mean(videogamesdataset$Year)/sd(videogamesdataset$Year))
videogamesdataset_transformed
```

```
## [1] 1699.327 1699.327 1694.327 1699.327 1698.327 1698.327 1689.327 1699.327
## [9] 1694.327 1699.327 1699.327 1689.327 1696.327 1696.327 1699.327 1686.327
## [17] 1680.327 1698.327 1691.327 1695.327 1685.327 1691.327 1687.327 1699.327
## [25] 1698.327 1694.327 1698.327 1687.327 1694.327 1678.327 1695.327 1699.327
## [33] 1696.327 1696.327 1695.327 1692.327 1695.327 1698.327 1699.327 1691.327
## [41] 1684.327 1697.327 1699.327 1699.327 1698.327 1686.327 1696.327 1695.327
## [49] 1699.327 1693.327 1687.327 1699.327 1693.327 1697.327 1689.327 1694.327
## [57] 1684.327 1697.327 1700.327 1695.327 1698.327 1696.327 1685.327 1688.327
## [65] 1689.327 1693.327 1699.327 1695.327 1694.327 1695.327 1686.327 1698.327
## [73] 1700.327 1691.327 1686.327 1683.327 1696.327 1697.327 1674.327 1686.327
## [81] 1695.327 1681.327 1689.327 1684.327 1684.327 1698.327 1699.327 1677.327
## [89] 1676.327 1693.327 1689.327 1685.327 1693.327 1698.327 1686.327 1698.327
## [97] 1693.327 1696.327 1685.327
```

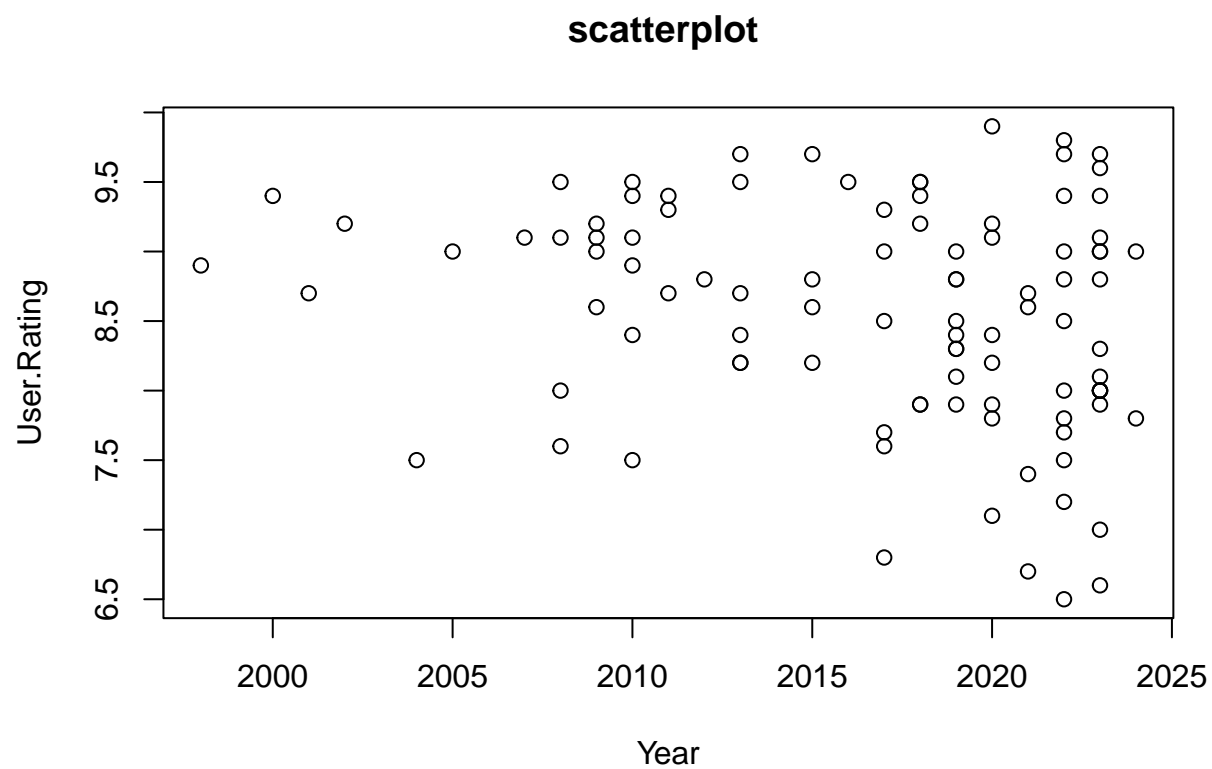
```
# The Variables were transformed
```

```
hist(videogamesdataset$Year)
```



```
# The graphical representation of the distribution of numerical data here is a histogram
```

```
x <- videogamesdataset$Year  
y <- videogamesdataset$User.Rating  
plot(x,y, main = "scatterplot ", xlab = "Year", ylab = "User.Rating")
```



A scatter plot is created with "Year" on x-axis and "User.Rating" on y-axis.