

# 1. Data Cleaning & Preparation

## Logic

To ensure Tableau reads the data correctly and all calculations (counts, averages, sorting) work without errors.

## Steps

- Loaded the dataset from CSV.
- Renamed corrupted column headers to proper names:  
**Series\_ID, Title, Genre, Platform, Seasons, Episodes, IMDB\_Rating, Year**
- Converted numeric fields to the correct type (Seasons, Episodes, Rating, Year).
- Verified ranges and ensured no misaligned columns.
- Exported a **clean CSV** for use in Tableau.

## Reasoning

Clean and properly typed data ensures charts display correctly, filters work, and calculations like averages and counts are accurate.

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# 2. Visualization Approach in Tableau

## Logic

Each problem statement requires a specific chart type that best answers the business question being asked.

## Steps & Reasoning for Each Task

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### Task 1 — Trend of Web Series Released Per Year (Line Chart)

#### Steps

- Drag **Year** → Columns
- Drag **Series\_ID** → Rows → change to **COUNT**
- Mark type: **Line**

### **Reasoning**

A line chart clearly shows changes in number of series released over time.

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## **Task 2 — IMDB Rating Distribution by Platform (Using Jitter Plot Instead of Box Plot)**

*(Because Tableau Trial restricts Box Plot)*

### **Steps**

- Drag **Platform** → Columns
- Drag **IMDB\_Rating** → Rows
- Mark type → **Circle**
- Drag **Platform** → Detail (for spreading points)

### **Reasoning**

This jitter plot still shows rating spread and variation across platforms, fulfilling the analytical goal of understanding distribution.

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## **Task 3 — Top 5 Highest Rated Web Series (Horizontal Bar Chart)**

### **Steps**

- Drag **Title** → Rows
- Drag **IMDB\_Rating** → Columns
- Sort descending
- Apply filter → **Top 5 by IMDB Rating**

### **Reasoning**

Horizontal bars are best for ranking and comparison; makes top 5 instantly clear.

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## Task 4 — Genre Distribution (Bar Chart)

### Steps

- Drag **Genre** → Columns
- Drag **Series\_ID** → Rows → COUNT
- Mark type: Bar
- Sort highest to lowest

### Reasoning

Bar chart shows how many series exist in each genre; easiest way to compare categories.

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## Task 5 — Relationship Between Episodes and IMDB Rating (Scatter Plot)

### Steps

- Drag **Episodes** → Columns
- Drag **IMDB\_Rating** → Rows
- Mark type: Circle

### Reasoning

Scatter plot visualizes whether more episodes lead to higher/lower ratings.

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## Task 6 — Platform-Wise Average IMDB Rating by Genre (Heatmap)

### Steps

- Drag **Genre** → Rows
- Drag **Platform** → Columns
- Drag **IMDB\_Rating** → Color (Aggregation: **Average**)
- Mark type: **Square**
- Add Label → AVG(IMDB\_Rating)

## **Reasoning**

A heatmap quickly highlights which platforms have stronger/waker genres based on color intensity.

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# **Final Outcome**

- Dataset cleaned, validated, and exported.
- All required visualizations created using Tableau-compatible methods.
- Alternative visualization used where Tableau Trial features were restricted.
- Final dashboard ready for analysis and presentation.