

# YouTube Data Analysis — Debugging Summary (2025-06-19)

This document summarizes all **debugging issues, root causes, and fixes** from today's session on your YouTube category analysis project.

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## **`trend.sum(axis=1)` — TypeError**

### **Error Message**

`TypeError: unsupported operand type(s) for +: 'float' and 'str'`

### **Cause**

- The trend DataFrame included non-numeric columns (e.g., strings or datetime), which can't be summed row-wise.

### **Solution**

Filter for numeric columns before summing: `python trend_numeric = trend.select_dtypes(include='number') total_watched_times = trend_numeric.sum(axis=1)`

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## **`2Series' object has no attribute 'select_dtype'`**

### **Error Message**

`AttributeError: 'Series' object has no attribute 'select_dtype'`

### **Cause**

- `.select_dtypes()` only works on DataFrames, not Series.

### **Solution**

Use it on a DataFrame like: `python category_numeric = category_df.select_dtypes(include='number')`

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## **3count' column not found**

### **Error Message**

KeyError: 'count'

### **Cause**

- `groupby(...).size()` returns a Series, not a DataFrame with a named column.

### **Solution**

Convert to DataFrame and name the column: python `df_counted = df.groupby(['year_month', 'category']).size().reset_index(name='count')`

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## **No axis named 1 for object type Series**

### **Error Message**

No axis named 1 for object type Series

### **Cause**

- This happens when `divide(..., axis=1)` is mistakenly applied to a Series instead of a DataFrame.

### **Solution**

Ensure `axis=0` is used: python `percent_df = category_numeric.divide(total_watched_times, axis=0) * 100`

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## **KeyError: '1' in color mapping**

### **Error Message**

KeyError: '1'

### **Cause**

- `custom_colors` used category names as keys, but `percent_df.columns` contained channel names.

## Solutions

- Make sure keys in `custom_colors` match the column names:
    - If `percent_df` uses **channel names**, define `custom_colors` with channel keys.
    - If using **categories**, build `percent_df` from a category-based pivot table.
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## 6. ' ' category dominates the chart

### Issue

- ' ' often contains many unmatched channels and overwhelms other categories.

### Solutions

- Option 1: Drop the column entirely: `python percent_df = percent_df.drop(columns=' ')`
  - Option 2: Review and reassign unknown channels: `python df[df['category'] == ' ']['channel'].value_counts()`
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## References

- [Pandas: groupby documentation](#)
- [Pandas: select\\_dtypes](#)
- [Matplotlib: Horizontal Bar Chart](#)